

Hazen and Sawyer Response

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CONTACT INFORMATION

Company

Hazen and Sawyer

Email

jforgione@hazenandsawyer.com

Contact

Julie Forgione

Address

4000 Hollywood Blvd., Suite 750N
Hollywood, FL 33021

Phone

N/A

Website

<https://www.hazenandsawyer.com/>

Submission Date

Sep 16, 2025 11:11 AM (Eastern Time)

ADDENDA CONFIRMATION

No addenda issued

QUESTIONNAIRE

1. CONFIRMATION TO BIND

1.1. I certify that I have read, understood and agree to the terms in this solicitation, and that I am authorized to submit this response on behalf of my company.*

☒ Confirmed

☒ Pass ☐ Fail

2. CERTIFICATION OF INSURANCE COMPLIANCE AND INTENT TO PROCURE REQUIRED COVERAGE

NOTE: Vendors are not required to purchase any additional insurance in order to submit a bid. However, they must certify that they either currently hold, or are able and willing to obtain, all required insurance coverages, endorsements, and limits prior to award and execution of the contract.

2.1. I certify that, if awarded this contract, I will be required to obtain and maintain all insurance policies as detailed in the INSURANCE REQUIREMENTS Section of this solicitation before any work may commence, and throughout the life of the contract.*

☒ Confirmed

☒ Pass ☐ Fail

2.2. Do you confirm that you will only use insurance carriers licensed to do business in the State of Florida and rated no less than “A” as to management, and no less than “Class VI” as to financial strength by A.M. Best, and that you understand all endorsements required (e.g., Additional Insured, Waiver of Subrogation, etc.) must be included?*

Yes

☒ Pass ☐ Fail

2.3. Do you currently carry insurance policies that meet or exceed the minimum requirements outlined in the INSURANCE REQUIREMENTS section of this solicitation?*

Yes

☒ Pass ☐ Fail

2.3.1. Please upload your current certificate(s) of insurance that demonstrate compliance with the insurance requirements outlined in this solicitation.*

☒ Pass ☐ Fail

 [City_of_Pembroke_Pines,_FL_COI_9.11.25.pdf](#)

2.4. Do you believe you are exempt from one or more insurance requirements (e.g., Workers' Compensation)?*

No

☒ Pass ☐ Fail

2.5. Do you plan on using subcontractors for this project?*

☒ Pass ☐ Fail

No

3. PRIMARY LOCATION & SINGLE POINT OF CONTACT

3.1. Identify the firm's, single point of contact that is a professionally licensed Engineer for this project. *

Evan Curtis, PE, Associate Vice President and Proposed Project Manager

☒ Pass ☐ Fail

3.2. Identify the primary location of firm in which the work will be completed in.*

☒ Pass ☐ Fail

Southeast Regional Headquarters: Hazen and Sawyer, 4000 Hollywood Boulevard, Suite 750N, Hollywood, FL 33021

3.3. Explain your firm's interest in working on this project, a positive commitment to perform the required work and a description of the firm.*

Hazen values our ongoing partnership with the City of Pembroke Pines, which began in 1992. We look forward to the opportunity to support the City in implementing cost-effective, flexible, and reliable improvements to the City's water and wastewater treatment systems, including upgrades to the City's electrical, instrumentation, and SCADA operations infrastructure. Like most cities in South Florida, the City of Pembroke Pines faces many challenges related to providing water and wastewater services as well as adequate drainage and flood protection for its citizens and customers. These challenges include managing aging infrastructure as well as meeting regulatory and compliance requirements. The Hazen team is ready to continue working with the City to address these challenges and challenges yet to come. Our team's detailed knowledge of the hurdles faced by municipalities and utilities staff will facilitate rapid and efficient design decisions. Hazen's exclusive focus on water, wastewater, reclaimed water, stormwater, and all their associated electrical and controls requirements, means that we will provide Pembroke

☒ Pass ☐ Fail

Pines with expertise ranging from water distribution and sanitary sewer systems designs to wastewater system plan and program development, stormwater design, generator and switchgear replacement, SCADA/instrumentation upgrades and control strategies, permitting, modeling, construction support services, and everything in between and beyond. Our experienced team looks forward to continuing our partnership with the City.

We have developed our approach methodology with the City's needs and objectives in mind. The Hazen team understands the importance of responding promptly to each work assignment under continuing services contracts, developing concise scopes, successfully executing work assignments, and effectively managing our resources. We are ready to respond and successfully manage a variety of assignments. By leveraging our resources, we are able to maintain the highest level of responsiveness.

The Hazen team has the commitment, understanding, experienced staff, technical expertise, and thorough project planning approach to provide the City with successful projects across the range of assignments that might be part of this contract. Hazen has been providing these services to South Florida clients for over 57 years.

Our approach is simple and straightforward. Hazen empowers local leadership and provides highly technical local resources. Though the size of assignments under these types of contracts ranges from small to large, Hazen treats each with the utmost importance and attention. We have extensive experience on as-needed engineering/engineer-of-record contracts, having served as a general consultant for more than 80 utilities in Florida over our 57-year presence in the State. Continuing service contracts make up the majority of our workload. Clients have shown confidence in our capabilities to deliver, and in return, we have invested in the communities we serve by establishing full-service offices with expertise in a range of specialty disciplines. We believe that the combination of local presence with full design capabilities, availability, and responsiveness are key factors to our success. Hazen takes great pride in being the firm that clients first call when they face challenges that require assistance.

All Things Water® Since 1951—100% of Work Devoted to the Water Environment

Hazen's roots go back over 100 years to the accomplishments of Allen Hazen, one of the pioneers of modern water supply engineering and co-developer of the Hazen-Williams formula for fluid flow in pipes in 1903. Hazen and Sawyer, a New York corporation, was established by Hazen's son Richard and Alfred W. Sawyer in 1951. Together, they created a company culture focused on the profession—not just the business—of engineering. Their legacy is a firm with a reputation for high-quality work and customer service.

Since 1951, Hazen has focused on three essential areas: Helping our clients provide safe drinking water to their customers, managing wastewater to protect public health and the environment, and addressing stormwater challenges to safeguard communities and mitigate environmental risks. We provide comprehensive capabilities in areas including, but not limited to, evaluation, planning, design, and permitting; electrical engineering; electronics; instrumentation; SCADA controls design; hydraulic modeling; regulatory compliance; grant funding; construction management and administration; and startup, training, and operations assistance. Hazen has served utilities with complete in-house engineering services from our regional headquarters in Hollywood, Florida, since 1968. We also have the largest water and wastewater design center in South Florida.

3.4. Describe the size of your firm.*

☒ Pass ☐ Fail

With over 2,200 professionals and 84 offices nationwide, Hazen is an employee-owned firm with an established presence throughout Florida. Our Southeast regional headquarters—located in Hollywood for 57 years—will lead the City of Pembroke Pines' Power Electrical Engineering Services contract, with local support from our Boca Raton and Coral Gables offices, delivering comprehensive engineering and support services. We also maintain branch offices in Fort Lauderdale, Boca Raton, Coral Gables, Orlando, Tampa, Sarasota, Fort Myers, Pensacola, and Jacksonville.

When needed, we seamlessly draw on our statewide and national expertise and resources to meet project demands and provide specialized technical support. Many of our team members have been with Hazen for decades, contributing to the continuity, depth, and reliability that define our service.

3.5. Describe your firm's financial history, strength and stability.*

☒ Pass ☐ Fail

Hazen is a professional corporation wholly owned by employees of the firm. During our 74 years of existence, we have consistently operated profitably. Management has always followed a conservative philosophy. In this way, the firm's growth has been sustained and supported by a strong financial base.

We are in a strong financial position in the industry and there are no unique risks which would affect our continued existence. To aid in your evaluation of our financial stability, feel free to contact our bank reference:

Gordon L. Smith, Executive Director
Chase
Commercial Banking
270 Park Avenue
42nd Floor
New York, New York 10017
Fax: (212) 270-1810
Phone: (646) 534 2241
Email: gordon.l.smith@chase.com

3.6. Describe your firm's range of activities.*

☒ Pass ☐ Fail

Hazen's Full-Service Expertise in Water Infrastructure and in Municipal Electrical Infrastructure and SCADA Systems

Hazen specializes in all aspects of municipal water resources infrastructure, with a strong focus on electrical engineering for water and wastewater systems. Since 1951, we have delivered innovative, reliable solutions to aid our clients in supplying safe drinking water to customers, managing wastewater to protect public health and the environment, and addressing stormwater challenges to safeguard communities and mitigate environmental risks. Additionally, our team brings a deep bench of experience in electrical systems design, instrumentation, SCADA controls, and automation for municipal operations.

We offer comprehensive services including field inspections, equipment evaluations, technical memoranda, cost estimating, preliminary and detailed design, permitting, regulatory compliance, bidding support, construction management, and operational startup. Hazen's engineers are adept at maintaining uninterrupted plant operations during upgrades and maximizing the use of existing infrastructure, ensuring efficiency, cost-effectiveness, and regulatory compliance.

Our capabilities span:

- Electrical design and evaluation for switchgear, transformers, VFDs, duct banks, and emergency power systems.
- SCADA and PLC system planning, design, construction oversight, systems integration, and cybersecurity assessments.
- Arc flash and circuit breaker coordination studies.
- Lighting, fire alarm, and security system design.
- Renewable energy systems including solar, cogeneration, and natural gas.

Hazen is committed to supporting the City of Pembroke Pines under this contract, providing consistent, high-quality engineering services on an as-needed basis. We understand the importance of aging infrastructure and are prepared to help the City proactively address both electrical system reliability and resilience as well as comprehensive instrumentation and controls strategies across its facilities.

Hazen's Florida team has supported more than \$8 billion in constructed infrastructure over the past decade, contributing expertise across water, wastewater, reclaimed water, and stormwater systems. These projects have included every project phase—from data collection and modeling to startup and training—ensuring seamless execution and long-term reliability.

3.7. Describe the specialized experience and technical competence of the firm or persons with respect to working on similar projects.*

Our approach to delivering projects allows us to engage electrical and instrumentation and controls ☒ Pass ☐ Fail engineering, and technical experts throughout Florida and from around the country, if necessary, to provide the best service to the City of Pembroke Pines. Hazen's team combines deep roots in South Florida with strong electrical engineering, instrumentation, electronics, and SCADA controls expertise. We have assembled seasoned professionals who have successfully delivered similar projects together—and who know your water system, your regulatory environment, and your priorities. Our approach is grounded in strong relationships, proven collaboration, and unmatched technical depth.

Key team member bios are provided below, with SF 330, Section E resumes for our Project Director (Jennifer McMahon, PE), Project Manager (Evan Curtis, PE), QA/QC and Technical Advisory Group (David Atkinson, Jr., PE; J. Brad Pickett, PE, PMP, LEED AP; and Jared Stanbridge, PE), Electrical Engineering & Electronics Group (John Burke, PE; Keff Kurella, PE; Jose Cano, PE; and J. Patrick Bowles, PE), Instrumentation & Controls Group (Keff Kurella, PE; Kyle Ringger, PE; Alfredo Jimenez; and Laura Garcia Gonzalez), Construction Management/Inspections Group (Elie Andary, PhD, PE; Kyle Ringger, PE; Jose Cano, PE; and Anthony Niemiec, Jr., PE), Operations/Startup Group (Kyle Ringger, PE, Alfredo Jimenez; and Jose Cano, PE), Permitting/Regulatory Compliance Group (Anthony Niemiec, Jr., PE and Michael Robinson, EI), Bidding Services Group (Anthony Niemiec, Jr., PE and Michael Robinson, EI), and Grants/Funding Lead (Sharon Simington).

Jennifer McMahon, PE – Project Director

Ms. McMahon has over 27 years of experience in the water industry with work focused on design, permitting, bidding, construction and startup of water and wastewater infrastructure. She has served as Design Manager, Project Manager, and Project Director for numerous projects in South Florida. Her knowledge of the City's infrastructure and procedures through her leadership on Hazen's Continuing Services contract with Pembroke Pines will be invaluable to the Team. She has also served as the Lead Civil, Mechanical and Process Engineer for a number of projects involving new or rehabilitated infrastructure, including projects with significant electrical and instrumentation components.

Evan Curtis, PE – Project Manager/Instrumentation and Controls Design Lead

Mr. Curtis has more than 30 years of experience in the design and commissioning of various water and wastewater utility projects, most significantly in instrumentation and controls (I&C). These projects involve existing system evaluations, design of improvements, and construction phase services, as well as equipment procurement, programming, training, and startup. He was the Project Manager and I&C Engineer for the City of Boca Raton Telemetry Improvements project, which included upgrades to 288 sites across the City's service area to provide cellular and radio communications. He provided I&C quality control and technical review services for the Toho St. Cloud WTP 4 project, which included IX. He also served as an instrumentation Subject Matter Expert for the I&C team. He also serves as I&C Subject Matter Expert for the Fort Lauderdale Prospect Lake Clean Water Center project (combination of nanofiltration membrane and ion exchange technologies), where he is responsible for reviewing design documents and providing specialty inspections of construction work. Additionally, he has served as Lead I&C Engineer for the design of I&C, SCADA, and telemetry systems improvements for multiple clients including the Cities of Fort Lauderdale, Plantation, Cooper City, and Boca Raton; and Broward County.

John Burke, PE – Electrical Design Lead

Mr. Burke has 59 years of experience in the planning, design, and project management of power, control and instrumentation systems associated with new and upgraded water and wastewater facilities. He led design of the

electrical systems at the City's 12-mgd WTP expansion over 20 years ago as a subconsultant. He served as Project Manager/Engineer, where he managed planning and design of power, control, and instrumentation associated with the treatment process. His involvement in the WTP expansion project provides him with detailed knowledge of the City's electrical systems. He served as Electrical Senior Technical Consultant for the electrical distribution and emergency power generation master plan efforts at Miami-Dade Water and Sewer Department's three WWTPs. He also served as Electrical Engineer-of-Record for the 20 MW Electrical Distribution Building No. 2 project and various other projects that made up the \$618 million High Level Disinfection Project at Miami-Dade WASD's SDWWTP.

3.8. Do you have a minimum of five (5) years progressive, responsible experience? Please provide proof of such experience.*

74 Years of Nationwide Water Solutions, with 57 Years of Service in Florida

☒ Pass ☐ Fail

Since 1951, Hazen has focused on supporting utilities in delivering safe drinking water, managing wastewater to protect public health and the environment, and addressing stormwater challenges to safeguard communities and mitigate environmental risks. For 57 years, Hazen has provided full-service engineering from our regional headquarters/design center in Hollywood, Florida, serving municipalities across the state with deep local knowledge and technical expertise.

The Hazen team offers extensive experience in the design, permitting, and construction of water, wastewater and stormwater infrastructure, with a specialized focus on electrical engineering, instrumentation, and SCADA control systems. We are well-positioned to support the City of Pembroke Pines' capital improvement program through a Continuing Services Contract, applying our decades of experience to help modernize aging electrical infrastructure, enhance system reliability, and ensure regulatory compliance.

Hazen also has extensive experience navigating the local design, permitting, bidding, and construction landscape in the area. This includes working collaboratively with regulatory agencies, such as Pembroke Pines Building Department, Broward County Resilient Environment Department, and Florida Department of Environmental Protection, and contractors to mitigate potential delays during the design and construction of projects in South Florida. Our proximity to the City and local experience allow for seamless project execution, informed decision-making, and close collaboration with the City.

Below are examples of our relevant project experience:

Springtree WTP Electrical Upgrades Phase 1 and Phase 2, Sunrise, FL (2019-Present)

Hazen is providing design and construction phase services for the phased electrical upgrades at the City of Sunrise's Springtree Water Treatment Plant (WTP). The facility includes low and medium voltage electrical distribution systems, many components of which have exceeded their useful life and pose operational and safety risks. The City has experienced equipment failures and hazardous testing conditions, prompting immediate replacement. To address these issues, Hazen developed a two-phased approach:

Phase 1:

- Replacement of low voltage (480V) motor control centers MCC-1 and MCC-2
- Replacement of Unit Substations 1 and 2 with a new 480V main-tie-main switchboard and outdoor, liquid-filled, pad-mounted transformers
- Replacement of high service pump (HSP) VFDs and demolition of isolation transformers
- Replacement of high service pumps, motors, and associated piping and appurtenances

Phase 2:

- Replacement of medium voltage (5kV) main switchgear and generator switchgear, including controls
- Replacement of medium voltage electrical distribution equipment (MV-MCC-1A/B)
- Installation of new service entrance-rated 5kV switchgear and generator/utility paralleling controls

- Coordination with the electrical utility for transition strategies (open vs. closed transition)
- Installation of new MV motor control centers and pad-mounted transformers
- Sequenced replacement of low voltage systems to maintain continuous plant operations

The upgrades are designed to modernize the plant's electrical infrastructure, improve reliability, and ensure safe and efficient operation.

Project Relevance:

- Electrical System Modernization
- I&C / SCADA Design
- Phased Construction with Operational Continuity

Influent Pump Station and Gravity Interceptor, City of Homestead, FL (2013–2019)

Hazen served as the prime consultant for the design, permitting, bidding, and construction management of a major wastewater infrastructure upgrade for the City of Homestead. The project aimed to eliminate Pump Station 1 (PS 1) and transition to a gravity-based solution for transferring flow from the western portion of the city to the WWTP. To support this, Hazen designed a new influent pump station (IPS) at the WWTP featuring: A divided wet well with three pumps for WWTP delivery and three pumps for peak flow transfer to the WASD force main system, pumps equipped with variable frequency drives (VFDs), a standby generator capable of 72-hour full-load operation, and instrumentation for direct monitoring and control via the WWTP HMI. Additional improvements included: installation of a 36-inch gravity main with a stub-out to eliminate PS 21, conversion of two wet wells to manholes to allow flow into the gravity interceptor, and coordination with regulatory agencies and full permit compliance. The IPS was completed in 2019, delivering a steady flow of 5.0 mgd to the WWTP and resolving moratorium and runtime issues. The project enabled new development in the western portion of the city and significantly improved wastewater management.

Project Relevance:

- Gravity Interceptor Design
- Influent Pump Station Design
- Elimination of Aging Pump Stations
- SCADA Integration and Emergency Power

North Regional WWTP Generator 4, Broward County, FL (2012–2019)

Hazen served as the prime consultant for the design and construction of a 2MW Tier 4 generator addition to Electrical Distribution Building 1 (EDB1) at the North Regional Wastewater Treatment Plant (NRWWTP). The project also included the installation of catalytic converters on Generators 5 and 6 to meet Tier 4 air emissions compliance as required by the US EPA. Following the failure of Generator 4, Hazen provided emergency services and coordinated the replacement with multiple concurrent projects, including: Facility Improvements Fast Track (fuel tank and piping replacement), Load Centers 5 and 6 replacement, Reclaimed Water Expansion / EDB2 Addition, and Capacity Improvements. Hazen's prior development of a full electrical master plan for NRWWTP enabled seamless sequencing of generator replacement and upgrades without service interruption or conflict with other construction activities. The project also ensured the County's continued participation in FPL's load reduction program, yielding annual cost savings.

Project Relevance:

- Tier 4 Generator Design and Replacement
- SCADA and Electrical System Integration
- Coordination with Concurrent Infrastructure Projects
- Compliance with EPA Air Emissions Standards

Sewer Pump Station 28 Rehabilitation, Miami Beach, FL (2022-Present)

Hazen is providing design and construction administration services for improvements/rehabilitation of the City's largest wastewater pump station, increasing pump station performance and reliability, including hardening improvements to

mitigate risks from sea level rise and climate change. Sewer Pump Station 28 (PS 28) is owned and operated by the City of Miami Beach. The station is located at 300 West 28th Street and is a dry well – wet well configuration. The PS 28 lift station (PS 28L) collects flow from its own collection basin as well as two upstream pump stations, PS 13 and 14. PS 28L is a triplex lift station consisting of three 200 horse-power (HP) (two in operation, one standby unit) pumps, that pump the gravity influent into a 36-inch discharge header associated with the booster pumps. PS 28 is also equipped with booster pumps (PS 28B) that boost the flows generated by PS 15, 18, 27, and 29. The 42-inch influent force main feeding the booster pumps enters the station on the east side of the dry well. Similar to PS 28L, PS 28B is a triplex configuration. The 350 HP booster pumps discharge into the 36-inch header to which PS 28L is manifolded. Wastewater from the booster/lift station is pumped southward via a 30-inch force main to the south end of the island, where it exits the City through Miami-Dade Water and Sewer Department (MDWASD) Meter No. M-29 discharging to the Central District Wastewater Treatment Plant (CDWWTP) for treatment and disposal. In addition to new dry pit and booster pump local control panels and VFDs, PS 28 was also equipped with a new generator, switchgear, diesel fuel bulk storage and day tanks, and a pump control panel. The pump control panel contains a new cellular modem and radio antenna to transmit data via Tower 41 to the City's cell telemetry network. PS 28 was ranked 7th in the prioritized list of high criticality assets in Hazen's Renewal and Replacement Report dated May 2018 and identified as a High Criticality project (Project S-28) in Hazen's City of Miami Beach Sewer System Master Plan dated October 2019

Project Relevance:

- SCADA System Design for Remote Operation via City's cell telemetry network
- Integration of Process Control and Security Systems
- Generator and Switchgear Design and Replacement
- City's SCADA Network is being upgraded by Hazen separately
- Hurricane-resilient electrical building design

Lift Station 309 Improvements, City of Sunrise, FL (2017–2020)

Hazen provided hydraulic modeling, preliminary design, and multi-jurisdictional permitting, bidding and construction management services for upgrades to Lift Station 309 and for an 8-inch diameter wastewater force main along the SW 130th Avenue corridor in the Town of Davie. The project is part of Hazen's ongoing general consulting contract with the City of Sunrise, which owns and operates three interconnected wastewater treatment plants and 214 lift stations serving Sunrise, Weston, and portions of Davie and Southwest Ranches. The Lift Station 309 improvements included increasing electrical and pumping capacity, replacement of mechanical, electrical and control system as well as a rehabilitation of the wet well. Additionally, this project utilized a temporary bypass pumping system to maintain pumping operations during construction.

Project Relevance:

- SCADA System Design for Remote Operation and upgrades to Telemetry
- Increase in Reliability and Electrical Capacity
- Bypass Pumping System Controls

Seminole Tribe Hollywood WWTP, Hollywood, FL (2016–2020)

Hazen was retained by the Seminole Tribe of Florida to plan, design, permit, and provide bid and construction phase services for a remotely operated sequencing batch reactor (SBR) wastewater treatment plant (WWTP) with a capacity of 9 mgd. Located in Hollywood, FL, the facility was designed to accommodate increased flows from the expanding Hard Rock Hotel and Casino. The SCADA system is fully automated and designed for remote operation. SCADA System Design Features include, being built around the EtherNet/IP "Industrial Ethernet" protocol for robust process control, a plant-wide network using open industry-standard technologies, integration of 10 programmable logic controllers (PLCs) and 20 variable frequency drives (VFDs) via EtherNet/IP, implementation of Device Level Ring (DLR) protocol for fault detection and recovery in VFD networking, a self-healing single-mode fiber optic ring backbone with gigabit Ethernet speeds, integrated Ethernet IP video camera network for remote process monitoring and site

security, SCADA HMI interface that includes live video streams for real-time process visualization and control, a 65" ultra-high-definition display in the control room for process and security camera feeds, and intrusion alarm system monitoring all building doors and windows

Project Relevance:

- SCADA System Design for Remote Operation
- Integration of Process Control and Security Systems
- Use of EtherNet/IP and DLR Protocols for Network Reliability

North District WWTP Electrical Distribution Building No. 3, Miami-Dade County, FL (2022–2029)

Hazen is providing design and engineering services for the construction of Electrical Distribution Building No. 3 (EDB 3) at the North District Wastewater Treatment Plant (NDWWTP). This facility will replace the aging EDB No. 1 and provide Miami-Dade Water and Sewer Department (WASD) with a more resilient, storm-hardened electrical infrastructure, including an Incident Command Center (ICC) for hurricane operations. The project includes a comprehensive Power Distribution Plan (PDP), detailing site-wide electrical loads and distribution. Hazen conducted a Pre-Assessment Envision® Checklist to evaluate sustainability opportunities, categorizing credits into those not applicable, those already met by County standards, and those offering enhancement potential. EDB 3 will be designed to withstand storm surge and sea level rise, and will coordinate with adjacent infrastructure projects, including the ocean outfall pump station and the Ocean Outfall Legislation Program's centralized water resource recovery facility. Cooling water from this facility will be used for EDB 3's air handling units. A critical aspect of the project involves transitioning electrical loads from EDB No. 1 to EDB No. 3 while maintaining uninterrupted power. Hazen worked closely with operational staff to develop a phased power transfer strategy to ensure plant reliability during construction and commissioning.

Project Relevance:

- Evaluated Envision® verification viability through checklist assessment
- Electrical power phasing during construction
- Replacement of existing electrical distribution building while maintaining service
- Hurricane-resilient electrical building design

Plantation Regional WWTP Diffused Aeration Improvements, Plantation, FL (2014–2018)

As part of an \$8.5 million upgrade to the City of Plantation's Regional Wastewater Treatment Plant, Hazen designed and provided services during construction for the replacement of the SCADA system. The existing system was limited to a single workstation and panel-mounted interface, while the new system features a high-performance HMI graphics/historian suite on redundant servers. Approximately 200 signals from 11 PLCs were integrated, covering major unit processes such as aeration basins, chemical metering, emergency generators, gravity belt thickeners, odor control, and disinfection. The design reused existing fiber optic cabling and added new fiber to expand and harden the network, built around the robust EtherNet/IP protocol. The SCADA HMI and PLC software, provided by Rockwell Automation (Allen-Bradley), offer advanced monitoring, diagnostics, and "DCS-like" features at a lower cost. The HPHMI graphics enhance operator situational awareness and abnormal condition detection. Construction of the SCADA system coincided with the conversion of the aeration system from mechanical to diffused aeration. A new "air flow demand" control strategy was implemented, improving energy efficiency and system tunability.

Project Relevance:

- SCADA Standards Development
- I&C / SCADA Design
- I&C / SCADA Construction Oversight
- New PLCs for all major unit processes, SCADA equipment, and software

North Regional Wastewater Treatment Plant SCADA System Replacement, Broward County, FL (2012–Present)

Hazen is providing comprehensive services for the replacement of the SCADA system at Broward County's North Regional Wastewater Treatment Plant (NRWWTP). Originally installed in the late 1980s, the legacy system had

become obsolete, with discontinued hardware and software. Hazen developed a phased replacement strategy using open architecture technologies to ensure uninterrupted operations during the transition. The project began with a software needs assessment and hardware requirements evaluation, followed by design, permitting, procurement assistance, and construction management. Hazen also supported the County through bidder qualification, proposal evaluation, and the award process. Construction phase services included factory acceptance testing, construction oversight, and system startup. The new SCADA system integrates existing Johnson Controls equipment with modern Allen-Bradley PLCs, ensuring long-term support and flexibility. Hazen's deep familiarity with the facility's processes and constraints enabled a successful transition design. The open architecture approach allows the County to maintain its existing PLC investments while adopting widely supported hardware and software solutions.

Project Relevance:

- SCADA System Replacement
- SCADA Standards Development
- Cybersecurity Assessment
- I&C / SCADA Design
- I&C / SCADA Construction Oversight

Water and Wastewater Telemetry Reliability Upgrade, Boca Raton, FL (2016–2021)

Hazen provided preliminary and detailed design, as well as bidding and construction phase services, for the complete replacement of two radio-based telemetry systems serving the City of Boca Raton's wastewater collection and potable water distribution systems. The project included upgrades at 288 remote sites and introduced a hybrid telemetry solution using both cellular routers and licensed 928/952 MHz radios. The existing telemetry infrastructure was outdated, with obsolete RTUs and antennas, and limited functionality. Hazen conducted a comprehensive evaluation of alternative telemetry technologies, including radio field surveys, and recommended a solution that improves reliability and performance while reducing maintenance complexity. The selected approach replaces most radio masts with low-profile cellular antennas and retains licensed radios at select sites for redundancy. Key improvements include replacement of RTUs with modern units supporting DNP3 Ethernet protocol, installation of cellular communications equipment, deployment of new licensed radios and antennas for critical sites; and enhanced data logging and transmission using report-by-exception and unsolicited messaging. The project also included upgrades to administrative and control buildings and SCADA integration. Hazen supported the City through construction phase services, with construction beginning in June 2018 and completion in April 2021.

Project Relevance:

- Evaluation of alternative telemetry technologies
- Radio field surveys and detailed design of base stations and RTUs
- Monitoring and control systems (Telemetry, SCADA, Communications Towers)

3.9. The firm must provide information on their proximity to and familiarity with the area in which the project is located.*

Hazen's Southeast Regional Headquarters, located in Hollywood, Florida, is just 7 miles from the ☒ Pass ☐ Fail
Pembroke Pines City Hall, ensuring quick access to the team and a deep understanding of the local conditions. Our firm has provided services to Pembroke Pines since 1992 from our Hollywood office. Our deep roots in the City provide us with valuable insight into the City's values and its commitment to serving its residents.



3.10. Explain the availability and access to the firm's top level management personnel.*

☒ Pass ☐ Fail

Our Southeast regional headquarters is located in the neighboring City of Hollywood. Hazen's Senior Vice President, Chair of the Board of Directors, and Southeast Regional Manager, Robert Taylor, Jr., PE, sits in our Hollywood office and is accessible to City staff. He is available any time to address any request or concerns of the City, or to attend in-person meetings with local or elected officials and public outreach meetings, if required. Patricia Carney, PE, DBIA, BCEE, a Vice President and a Member of Hazen's Board of Directors, is also located in the Hollywood office and available to the City. Jennifer McMahon, PE, Vice President, is also located in Hazen's Hollywood office and is a longtime Pembroke Pines resident. Our top-level management personnel are easily accessible and available via phone (office/mobile), text, and email on a daily basis.

3.11. List any applicable qualifications, including education, experience, honors and awards received, and professional associations of which the firm and/or its personnel are members, which are not already listed on Standard Form 330.*

Awards

☒ Pass ☐ Fail

Hazen has received numerous awards for completed projects, which is an indication of the quality of our work. To provide the City with an indication of the quality of our work, select awards are highlighted below.

2024 – American Society of Civil Engineers (ASCE)-FL, Broward Branch, ASCE Broward Sustainable Project of the Year, Osceola Creek Restoration Project, City of Fort Lauderdale, FL

2022 - Institute of Sustainable Infrastructure Bronze Envision® Award, Cocoplum 1 Pump Station and Force Main

Improvements, City of Coral Gables, FL

2022 - ASCE-FL Section Large Project of the Year - Emergency Pipeline Project, City of Fort Lauderdale, FL

2021 - ACEC-FL Grand Award; Trenchless Technology Honorable Mention, ASCE-FL Broward Branch Project of the Year Emergency Pipeline Project, City of Fort Lauderdale, FL

2021 - Design-Build Institute of America (DBIA) Design-Build Honor Award – Water/Wastewater, San Carlos Pumping Station Rehabilitation Project, Tampa, FL

2018 - Resilient Utility Coalition Resilient Project of the Year, Cocoplum 1 Pump Station and Force Main Improvements, City of Coral Gables, FL

2017 – DBIA Best Overall in the Water/Wastewater Category – Florida Region Design-Build Awards, Intercoastal Waterway Crossings at Las Olas Boulevard, City of Fort Lauderdale, FL

2016 – Florida Water Environment Association (FWEA) Reuse System of the Year, Loxahatchee River Environmental Control District

2014 – Florida Institute of Consulting Engineers (FICE) Florida Grand Conceptor Award, South District Wastewater Treatment Plant Upgrade, Miami-Dade Water and Sewer Dept., FL

Hazen understands the importance of and supports professional organizations at national and local levels. In addition to membership and sponsorship at a corporate level, Hazen also encourages individual participation and engagement of its employees. Our local team members actively participate in regulatory committees to help shape the outcome of pressing regulatory issues. A representative listing of organizations our firm and/or team members are involved with appears below.

- American Council of Engineering Companies
- American Membrane Technology Association
- American Society of Adaptation Professionals
- American Society of Civil Engineers
- American Chemical Society
- American Water Resources Association
- American Water Works Association
- Caribbean Water and Wastewater Association
- Construction Management Association of America
- Cuban American Association of Civil Engineers
- Design-Build Institute of America Environmental Business Council
- Florida Engineering Society
- Florida Section American Water Works Association
- Florida Stormwater Association
- Florida Water Environment Association
- Florida Water Utility Council
- Institute for Sustainable Infrastructure
- Instrumentation, Systems and Automation Society
- International Society of Automation
- International Water Association
- National Association of Clean Water Agencies
- National Forum for Black Public Administrators
- National Ground Water Association
- National Society of Professional Engineers
- Project Management Institute
- Southeast Desalting Association
- South Florida Hydrologic Society
- Southeast Florida Utility Council
- The Institute of Asset Management Ltd

- The Water Research Foundation
- U.S. Green Building Council
- Water Collaborative Delivery Association
- Water Environment Federation
- Water for People
- Water Resources Association
- Water Reuse Association

Experience

John Burke, PE, served as Chair of the Florida Board of Professional Engineers from 2008-2012.

Evan Curtis, PE, served as Chair of the Florida Section of the American Water Works Association (FSAWWA) Automation Committee from 2019-2022.

3.12. What similar or related projects have you worked on within the past three years and what challenges did you face and how did you overcome them?*

Springtree WTP Electrical Upgrades Phase 1 and Phase 2, Sunrise, FL (2019-Present)

☒ Pass ☐ Fail

Hazen is providing design and construction phase services for the phased electrical upgrades for the City of Sunrise's Springtree WTP. The facility's aging low and medium voltage electrical distribution systems presented significant operational and safety risks, including equipment failures and hazardous testing conditions. In response, Hazen developed a two-phased approach to modernize the infrastructure while maintaining continuous plant operations.

The Phase 1 Scope included: replacement of low voltage (480V) motor control centers MCC-1 and MCC-2, replacement of Unit Substations 1 and 2 with a new 480V main-tie-main switchboard and outdoor, liquid-filled, pad-mounted transformers, replacement of High Service Pump (HSP) VFDs and demolition of isolation transformers, replacement of high service pumps, motors, and associated piping and appurtenances.

The Phase 2 Scope included: replacement of medium voltage (5kV) main switchgear and generator switchgear including controls, installation of new service entrance-rated 5kV switchgear and generator/utility paralleling controls, replacement of medium voltage electrical distribution equipment (MV-MCC-1A/B), installation of new MV motor control centers and pad-mounted transformers, sequenced replacement of low voltage systems to maintain continuous plant operations, and coordination with the electrical utility for transition strategies (open vs. closed transition).

The project faced the following challenges:

- Unforeseen utility conflicts prevented installation of electrical system in proposed location

Hazen addressed these challenges:

- Worked closely with the City and Contractor to develop an alternate design during construction.

North District WWTP Electrical Distribution Building No. 3, Miami-Dade County, FL (2022–2029)

Hazen is providing design and engineering services for the construction of Electrical Distribution Building No. 3 (EDB 3) at NDWWTP. This new facility will replace the aging EDB No. 1 and deliver a storm-hardened, resilient electrical infrastructure for Miami-Dade Water and Sewer Department (WASD), including an Incident Command Center (ICC) to support hurricane operations.

The project includes a comprehensive Power Distribution Plan (PDP) that outlines site-wide electrical loads and distribution strategies. Hazen also conducted a Pre-Assessment Envision® Checklist to identify sustainability opportunities, categorizing credits based on applicability, compliance with County standards, and enhancement potential. EDB 3 is designed to withstand storm surge and sea level rise and is being coordinated with adjacent infrastructure projects, including the ocean outfall pump station and the centralized water resource recovery facility under the Ocean Outfall Legislation Program. Cooling water from this facility will be used for EDB 3's air handling units.

The project faced the following challenges:

- Obtaining a power source from Florida Power & Light (FPL) and identifying a location for new electrical distribution building.

Hazen addressed these challenges:

- Hazen collaborated extensively with both County officials and engineers from the FPL to identify the most suitable location for the new electrical distribution building and power source. By fostering open communication and working together throughout the design and planning phases, the team was able to minimize potential conflicts and mitigate risks associated with the project's power supply and distribution needs. This collaborative approach ensured that all stakeholders' concerns were addressed and contributed to a more efficient project implementation.

Sewer Pump Station 28 Rehabilitation, Miami Beach, FL (2022-Present)

Hazen is providing design and construction administration services for the rehabilitation of Sewer Pump Station 28 (PS 28), the City of Miami Beach's largest and most critical wastewater pump station. The project aims to enhance pump station performance and reliability while implementing hardening improvements to mitigate risks associated with sea level rise and climate change.

PS 28 is a dry well–wet well configuration that collects flow from its own basin and two upstream stations (PS 13 and PS 14). It includes a triplex lift station (PS 28L) with three 200 HP pumps and a booster pump station (PS 28B) with three 350 HP pumps. These systems discharge into a shared 36-inch header, which conveys flow southward via a 30-inch force main to the Central District Wastewater Treatment Plant (CDWWTP). The rehabilitation includes installation of new dry pit and booster pump local control panels, VFDs, generator, switchgear, diesel fuel bulk storage and day tanks, and a pump control panel equipped with a cellular modem and radio antenna for remote operation via the City's SCADA network. PS 28 was identified as a high criticality asset in Hazen's Sewer System Master Plan and prioritized for renewal and replacement.

The project faced the following challenges:

- Integration of the control system and associated instrumentation for this project with the ongoing telemetry system replacement that encompasses all lift stations within the City of Miami Beach. Ensuring seamless compatibility between the upgraded local control panels, remote operation capabilities, and the City's broader SCADA network.

Hazen addressed these challenges:

- Ongoing communication among project teams at key milestones ensures effective coordination of action items and contributes to the overall success of the project. Hazen serves as the Design Engineer for both projects, which has aided in the facilitation of requirements.

3.13. What is your reputation compared to your peers in the market?*

☒ Pass ☐ Fail

Hazen's reputation is well-established in the field of environmental engineering. We are one of *Engineering News-Record's* (ENR) top firms in water engineering and are committed to maintaining our position as one of the leaders of advanced water and wastewater technologies.

Hazen is also a trusted partner among industry peers, who often partner with us on projects, including repeat assignments, due to our responsiveness, strong teamwork, and commitment to delivering the best for the benefit of our clients.

Many of Hazen's employees have long tenures, with many having been with the firm for over 20 years. In our Hollywood office, we have staff who have been employed for over 50 years and continue to work for Hazen today. We believe this is a direct reflection of our business model, which is to provide all things water® exclusively to our clients. This focus allows our engineers to maximize their water engineering skills and deliver the highest quality service to our clients.

3.14. What is your reputation like among customers and how have you developed it?*

☒ Pass ☐ Fail

The Hazen team takes pride in building partnerships with the utilities we serve, including the City of Pembroke Pines. We are frequently retained by utilities for continuous, multiple years because we tailor our approach to meet each utility's specific needs. Our team members are easily accessible to staff at all levels, fostering open communication. We have earned the trust and respect of our clients by consistently delivering on our commitments and addressing issues as soon as they arise.

Through our extensive institutional knowledge, attention to detail, focus on client needs, and technical excellence and commitment, we have become the go-to subject matter experts and trusted advisors for many utilities in Broward and Miami-Dade Counties. We value our reputation and remain dedicated to maintaining our high standards and commitment to our clients—specifically in our ongoing commitment to the City of Pembroke Pines. Select quotes from our clients are provided below:

"Hazen has been associated with Plantation and a part of our team for over 20 years. We feel their team's expertise and attention to detail places them at the top of their field." / Daniel Pollio, Utilities Director, City of Plantation

"Vendor is very knowledgeable and shows great professionalism in both design and construction matters." / Rares Petricia, Former Senior Project Manager, City of Fort Lauderdale

"For nearly 20 years, through dedicated service, the firm has performed admirably on both a continuing services and special project basis providing high quality designs and professional studies in support of the capital expansion, asset renewal and replacement and general operations of both the Town's water and stormwater systems. Hazen's assistance has also been instrumental in the Town's success in securing numerous grant opportunities to the benefit of our entire community." / David Brown, Director of Utilities (retired), Town of Jupiter

"Hazen and Sawyer has performed very well and was able to keep the project on track and on budget. It should be noted that Hazen and Sawyer demonstrated an excellent working relationship with regulators, (including the Florida Department of Environmental Protection and the local health department), which enabled this project to proceed expeditiously." / Michael F. Bailey, PE, Former Director of Utilities/City Engineer, Cooper City Utilities

3.15. How does your service differ from similar competitors? How do you win and retain business?*

☒ Pass ☐ Fail

Hazen differentiates itself from competitors by offering a specialized focus on water resources, an unwavering commitment to sustainability, and a client-centric approach that prioritizes collaboration and innovation. Our long history, combined with a forward-thinking mindset, makes us a trusted partner for delivering tailored solutions to complex environmental challenges. Clients who choose Hazen can be confident in receiving customized, cutting-edge, and sustainable results that address both present and future needs.

Hazen wins contracts by tailoring each project to meet each client's unique needs – we are client focused. We also honor our commitments on projects, even when challenges/issues arise that go beyond the original scope. Hazen is dedicated to high-quality, on-time, within-budget delivery for every assignment. We understand that our reputation precedes us, and successful project execution is key to securing future work. To ensure success, we assign projects to engineers with the specific qualifications and expertise required and provide additional staff engineers support, as-needed, for successful project completion.

3.16. A brief statement must be included which explains why your proposal would be the most effective and beneficial to the City of Pembroke Pines.*

☒ Pass ☐ Fail

Selecting Hazen for Power Electrical Engineering Services offers the City of Pembroke Pines a uniquely effective and beneficial partnership grounded in deep regional experience, innovative solutions, and a proven commitment to long-term reliability. Our team brings unmatched expertise in modernizing

aging electrical and control systems, with a track record of successful delivery across more than 25 South Florida municipalities, including Boca Raton, Plantation, and Sunrise.

We offer a local, full-service team based in Broward County that is solely focused on water infrastructure, ensuring responsive service and tailored solutions. Our proposed Project Manager, Evan Curtis, PE, has led transformative upgrades such as the City of Boca Raton's 288-site telemetry system using advanced communications protocols like DNP3, enhancing reliability, data visibility, and strategic decision-making.

Hazen's familiarity with Pembroke Pines' facilities, combined with our history of collaboration with City staff, positions us to deliver cost-effective, future-ready solutions that respect the City's budget and growth plans. Led by Evan Curtis, PE and Jennifer McMahon, PE, our team is committed to completing assignments on time and within budget, while maintaining full accountability and transparency throughout the project lifecycle.

By choosing Hazen, the City gains a trusted, local partner with the technical depth, regional insight, and innovative mindset needed to ensure the success of its wastewater infrastructure goals.

4. FIRM'S UNDERSTANDING AND APPROACH TO THE WORK

The understanding that the applicant and consultants demonstrate as to the requirements and needs of the project, including an evaluation of the thoroughness demonstrated in analyzing and investigating the scope of the project.

4.1. Provide a narrative statement demonstrating an understanding of the overall intent of this solicitation, as well as the methods used to complete assigned tasks.*

The City of Pembroke Pines has successfully operated its water and wastewater treatment, collection, ☒ Pass ☐ Fail and distribution systems since the 1970s. These facilities rely on aging electrical infrastructure, which now presents increasing risks to operational continuity and regulatory compliance. Similar to other infrastructure rehabilitation efforts, the City must evaluate and prioritize electrical system upgrades to maintain serviceability and avoid potential failures that could disrupt essential services to residents.

Recognizing the importance of consistency and quality in electrical improvements, the City is seeking qualified firms to provide Power Electrical Engineering Services under a Continuing Contract, in accordance with the Consultants Competitive Negotiations Act (CCNA). Hazen understands the intent of this solicitation and is prepared to support the City with a comprehensive, structured approach to evaluating, designing, and implementing electrical upgrades across its facilities.

Our methodology begins with collaborative planning and evaluation including:

- Assessing the condition and remaining useful life of existing electrical systems, electronics, and instrumentation and controls (I&C).
- Identifying critical infrastructure vulnerabilities and prioritizing upgrades based on risk and impact.
- Developing project scopes and budgets that align with the City's funding strategies and regulatory requirements.
- Coordinating closely with City staff to ensure alignment and minimize operational disruption during implementation.

Hazen will employ a proven project management framework to deliver high-quality services from initial assessment through design, permitting, bidding, and construction support. Our work plan will define team roles, timelines, deliverables, and budget expectations, ensuring transparency and accountability throughout the project lifecycle. We utilize work breakdown structures and milestone tracking to maintain schedule and budget control, and we encourage active City involvement during design phases to ensure alignment with operational goals.

Our quality control approach includes a dedicated plan developed at project initiation and enforced throughout all phases. Senior staff will oversee quality reviews to ensure technical accuracy and consistency across all deliverables. Periodic submittals and review meetings will provide opportunities for City feedback, allowing for timely adjustments and avoiding costly rework.

Selecting Hazen provides the City with a trusted partner offering unparalleled expertise in utility infrastructure and access to a local “one-stop-shop design center.” Our team is committed to delivering reliable, cost-effective electrical engineering and I&C solutions that safeguard public services and support the City’s long-term operational resilience.

4.2. Please clearly describe all aspects of the project proposed.*

☒ Pass ☐ Fail

The scope of projects or studies may include, but are not limited to, the following:

- Field inspections to assess existing conditions, define technical requirements, and collect operational data.
- Equipment evaluations and data modeling to support the development of technical memoranda.
- Cost estimates for materials, labor, and equipment alongside preliminary design work to aid in budgeting and project planning.
- Engineering documentation (including specifications, plans, diagrams, and schematics) developed for bidding and permitting purposes, while close-out documents such as operation and maintenance manuals and as-built drawings prepared upon project completion.
- Construction management support through field inspections, quality control, and coordination with contractors.
- The design scope includes electrical, electronics, and instrumentation and controls (I&C) systems across various infrastructure types, including water and wastewater treatment plants and conveyance facilities.
- Control system work involving the design, modification, and evaluation of process instrumentation and controls, Supervisory Control and Data Acquisition (SCADA), and programmable logic controllers (PLC), with emphasis on automation, data acquisition, and alarm systems.
- Design of cybersecurity countermeasures in accordance with City’s requirements.
- Standardized design specifications and details for I&C components to ensure consistency and reliability.
- Electrical design tasks including work on switchgear, power distribution panels, circuit breakers, transformers, capacitors, bus bars, variable frequency drives (VFDs), duct banks, soft starts, and transfer switches.
- Building systems, including electrical and automation systems, lighting controls, fire alarms, and security monitoring.
- Additional engineering services including the preparation of process control descriptions for SCADA integration, arc flash hazard studies, and circuit breaker coordination analyses.
- Surge protection and lightning bonding systems, along with emergency power systems incorporating generator synchronization, demand loading, and power load shedding.
- Ancillary generator equipment considerations.
- The design and evaluation of electrical systems for renewable and sustainable energy sources such as solar, natural gas, and cogeneration.

Specific projects outlined by the Capital Project Projections are:

- Floating Photovoltaic System (2025-2026)
- SCADA Lift Station Replacement RTU's & Telemetry (2026-2028)
- Electrical Equipment Replacement Part 1 (2027-2029)
- Holly Lake Electrical Rebuild (2027-2028)
- Future Undetermined WTP Operational Rehab (2029-2031)
- Future Main Gen/Switchgear Replacement (2029-2031)
- Future Undetermined Water Plant Equipment Replacement (2026-2031)

4.3. Include details of your approach and work plans.*

☒ Pass ☐ Fail

Hazen offers the City of Pembroke Pines a proven approach to meeting deliverables for detailed design projects and maintaining operations of critical facilities. We believe that selection of our firm would ensure efficient, cost-effective design and construction that will address all of the requirements of the City. We demonstrate this knowledge by detailing our technical approach to executing the project.

Our experience has shown that projects that are carefully planned and executed on schedule are seldom, if ever, over budget. Hazen's goal will be to design each project to be cost-effective and constructed with minimal disruption to the facility. The project will allow the City to meet today's goals while planning for the future.

To meet the City's objectives, our comprehensive project approach would include the following primary subtasks, as applicable on each task:

- Meet with City staff, including operations personnel, to thoroughly understand their concerns and challenges with operating and maintaining the facility
- Perform review of existing and future regulatory standards and provide recommendations to ensure operation and monitoring compliance.
- Perform brief evaluation of the historical operation and maintenance data and provide recommendations to improve process optimization.
- Perform a condition assessment of identified equipment and infrastructure and provide recommendations for replacement or improvement.
- Review the City's master plan and develop requirements for identified improvements.

4.4. How would you organize this project in terms of milestones?*

☒ Pass ☐ Fail

Project milestones will encompass detailed design through bidding services for the City of Pembroke Pines process and infrastructure improvements. Depending on the results of the process and infrastructure / equipment evaluations, contract documents and technical specifications will be developed to detail the necessary improvements for the facility.

Following preparation of the Preliminary Design Report, 60%, 90%, and 100% design level, contract documents will be prepared for the City's review. This will include drawings, City front-end specifications, and technical specifications. An updated cost opinion and construction schedule will be provided at each design phase along with the contract document submittal. The design drawings will consist of general, mechanical, structural, electrical, and instrumentation and control drawings. A review meeting will be held with City staff after each submittal and review of equipment manufacturers to make sure City desires are addressed. A summary of the deliverables at each milestone is presented below.

60% Deliverable:

- Final P&IDs including both remote and local control
- Plan view and major elevation drawings
- Electrical schematics
- 60% technical specifications
- Final design calculations
- Applicable permit applications
- Construction sequence summary
- Updated schedule
- 60% cost-estimate

90% Deliverable:

- 90% engineering drawings
- 90% specifications, special conditions and bid form
- Arc flash specifications update
- Asset management documents
- Updated schedule
- Final QC performed
- 90% cost estimate

100% Deliverable:

- 100% engineering drawings
- 100% specifications, special conditions and bid form
- Updated schedule
- 100% cost estimate

Bid Documents:

- Bid set engineering drawings
- Bid set written specifications
- Bid form
- Related bid documents

Permitting:

In concert with final design development, Hazen will initiate permitting activities with the Florida Department of Environmental Protection and Broward County Environmental Protection and Growth Management Department (BCEPGMD). Additionally, the Hazen Team will also begin discussions with the City of Pembroke Pines Building Department to initiate the dry run review process. We will participate in meetings, submissions, and respond to RAIs that will result in successfully obtaining the necessary construction and operating permits.

Bidding:

Following completion of the detailed design, Hazen will assist the City with bidding of the project. Assistance includes finalizing the City's front end/contractual documents, ensuring that unit price bid items manage the City's cost escalation risk, chairing the pre-bid conference, issuing addenda, attending the bid opening, recommending awards, and finalizing contract execution. Conformed documents that include all addenda will be issued to the City and contractor.

Construction Administration Services; Professional Services During Implementation:

Hazen has provided construction administration services ranging from full-time to limited involvement and every combination in between. Another key factor offered by Hazen is involvement of design engineers throughout the construction and start-up of the project. Given that our team members are local, they will be available for site visits and specialty inspections as needed. We take pride in the fact that our engineers will see this project through from the conceptual design phase to the start-up and testing period.

Our construction administration services will begin at issuance of the construction notice to proceed. Hazen will hold a Pre-Construction Meeting to familiarize all parties and delineate lines of communication and procedures for the project. This will establish a guideline for the Contractor, Hazen, the City and any other involved parties.

Once the Contractor begins submittal of shop drawings, Hazen will log their receipt and begin review. In some cases, Hazen may contact the Contractor and/or its vendors to request supplemental information or clarification in an effort to expedite the process. Shop drawings will be returned as quickly as possible, bearing in mind that certain items, like pumps, require multidisciplinary reviews.

Throughout the duration of the project, we will provide oversight and address change management items, including requests for information, contract document clarifications, field orders, and change orders. These items will be thoroughly discussed with the City's representatives to ensure approval prior to modifications to the project cost or time.

Another important activity will be periodic review of record drawings, which will be done to ensure the Contractor provides a complete set of "red line" drawings at the end of the project. These regular reviews are critical in ensuring a useful set of record drawings that will become a valuable tool for future projects.

Closeout Services:

The Hazen team will ensure that all permits are properly closed out. Hazen will also archive the project materials (contract documents, construction records, warranties, and operation & maintenance manuals) so that they are easily

searchable and retrievable. Closeout services also offered by Hazen are one-year operational assistance on an as-needed, as-requested basis.

4.5. Identify any issues or concerns of significance that may be appropriate.* ☒ Pass ☐ Fail

Our team has not identified any key issues or concerns of significance that may impact the successful completion of the proposed projects under this solicitation.

4.6. How do you ensure the quality of your services?* ☒ Pass ☐ Fail

Every project is required to have a Quality Control Plan and execution and adherence to the plan is strictly enforced. Our firm has a Chief Quality Officer (a senior partner of the firm), regional quality coordinators (all partners in the firm), and local office liaisons. QA/QC implementation is a daily practice with formal milestone reviews and quarterly auditing and reporting to the firm’s President and Board of Directors. This provides for the highest quality deliverables for your projects. Mr. Curtis will ensure the successful implementation of quality control reviews. He will develop a quality control plan as part of the project work plan.

Providing quality engineering services and deliverables is a core element of Hazen’s business practice and is inherent to our culture. We have a company-wide Quality Assurance Policy Manual to provide guidance to staff during the execution of every project. This plan involves discipline and inter-discipline review by senior professionals at the conceptual, preliminary, draft, and final design stages.

Quality Control Approach



4.7. What criteria do you use to measure your quality?* ☒ Pass ☐ Fail

Commitment to protecting public health and safety is paramount in every design project of Hazen. Further, Hazen’s commitment to quality is inherent to Hazen’s culture and is evident in the services we deliver.

- Client satisfaction is one of our core values at Hazen. We provide opportunities for feedback at every project milestone to ensure that our clients’ needs and expectations are consistently met or exceeded.
- Hazen maintains a high standard for technical excellence by engaging subject matter experts throughout all phases of the project.
- Delivering projects on time and within budget defines Hazen’s commitment to quality. We employ robust project management protocols to track progress, allocate resources effectively, and identify risks early in the process.
- Ensuring compliance with all applicable local, state, and federal regulations is a non-negotiable aspect of quality at Hazen and Sawyer. Hazen local team members actively participate in the SEFLUC and joint FSAWWA Water

Utility Council (WUC) and FWEA Utility Council regulatory committee to help shape the outcome of pressing regulatory issues.

- Through the use of multidisciplinary teams, Hazen fosters a collaborative environment where discipline experts contribute to sustainable solutions.

4.8. How often do you find mistakes or errors in your work and what is done to correct these errors, and what is the average correction time?*

As engineers, we hold ourselves to the highest standards of accuracy, reliability, and professionalism. ☒ Pass ☐ Fail
However, while our robust QA/QC processes are designed to minimize the likelihood of errors, we understand that occasional mistakes can occur on any project. At Hazen, the frequency of mistakes or errors is low; we complete most of our construction projects with zero change orders related to engineering design issues. During the rare situations that errors are identified during the quality review process, we follow a structured and transparent correction process that prioritizes swift resolution and clear communication with our clients.

The time required to correct a mistake or error depends on the complexity of the issue identified. Minor errors are typically addressed in 1 to 3 business days; other errors may take 2 weeks to 4 weeks.

4.9. Describe the firm's techniques for quality control. At a minimum describe the firm's technique to control design and contract documentation, including record keeping.*

A key reason for Hazen's success is our continuous attention to quality. This means not only doing ☒ Pass ☐ Fail things right but doing things right the first time. Quality control plans (QCP) are a standard part of every project—not just a box to check. In accordance with the firm's Quality Assurance Policy Manual, our team will develop a QCP tailored for this project. The QCP will identify qualified QC reviewers, QC milestone dates, and appropriate QC budgets to fulfill the QCP. QC reviews will be conducted by independent, experienced technical staff prior to each milestone submittal.

For every project, we maintain a risk register, documenting the decisions made by the City and the design team for future reference. Documenting these decisions in this manner allows the City to return to this document for review of the mitigation measures for each risk as well as the associated savings (where applicable).

Document management procedures are initiated at the start of each project following Hazen's Document Retention Policy. When a project is closed, the Project Manager verifies with project team members that all documents related to the project are located in the central project files. Final documents (i.e., project correspondence including client deliverables such as reports and drawings, memoranda, field logs, calendars) are discarded 15 years after project close. Permanent documents (i.e., documents that establish scope of work, final drawings and calculations or specifications, milestone drawings, final reports) are maintained indefinitely. In the case where a contract has specific, client-requested provisions regarding confidentiality and maintenance of documents, Hazen will adhere to those provisions.

4.10. A brief statement must be included which explains why your proposal would be the most effective and beneficial to the City of Pembroke Pines.

Selecting the Hazen team provides the City of Pembroke Pines with a trusted partner that brings ☒ Pass ☐ Fail unparalleled expertise in managing complex infrastructure projects from planning through execution.

Our proven approach combines technical excellence with a strong managerial framework, ensuring that every assignment is delivered efficiently, on time, and within budget. With access to a local "one-stop-shop" design center, Hazen offers the City a streamlined and responsive project delivery model that supports collaboration, transparency, and adaptability. Each project is led by a dedicated project manager who serves as the single point of contact, maintaining full oversight and accountability throughout all phases. Our scheduling methodology, grounded in industry

best practices, allows us to tailor timelines to the City's needs while proactively identifying and resolving potential issues. We employ advanced tools to monitor progress and manage resources, ensuring that every task receives the attention it deserves. Hazen's commitment to cost control is reflected in our detailed scope development, accurate estimating, and continuous budget tracking. By integrating these practices with our local presence and deep bench of technical professionals, we deliver reliable, high-quality outcomes that align with the City's goals and expectations.

5. WILLINGNESS TO MEET TIME AND BUDGET REQUIREMENTS

This solicitation is for the award of a continuing contract.

The continuing contract shall be used for professional services for projects in which the estimated construction cost of each individual project under the contract does not exceed \$7,725,000, or for study activities in which the fee for professional services for each individual study under the contract does not exceed \$500,000, or as further allowed, or amended from time to time, in Florida Statute 287.055.

Please note that during this portion of the process, the City is NOT asking for the firms to submit pricing. After the evaluation committee has selected the firms in order of preference, the City shall negotiate a contract with the most qualified firm for professional services at compensation which the agency determines is fair, competitive, and reasonable. Should the agency be unable to negotiate a satisfactory contract with the firm considered to be the most qualified at a price the agency determines to be fair, competitive, and reasonable, negotiations with that firm must be formally terminated. The agency shall then undertake negotiations with the next most qualified firm.

Cost: Not applicable. Staff proposes to present every work authorization under this contract in excess of the threshold (\$25,000) stated under Section 35.21(A)(1) of the City's Code of Ordinances, as may be amended from time to time, to City Commission for approval.

Timeline: The City intends to award a continuing contract to more than one firm. The initial term of the agreement will be for an initial five (5) year period period. The Agreement may be renewed for two (2) additional three-year terms upon mutual consent, evidenced by a written Amendment to the Agreement extending the term thereof.

Please advise if your firm is willing to meet the following time and budget requirements.

#	Project	Timeframe	Project Cost	Compensation	Funding Year
1	Floating Photovoltaic System	2025-2026	\$2,000,000	\$40,000	2025-2026

*** Preliminary design report, construction documents (CD's) and assistance during bidding. Excludes services during construction.**

**** Subject to planning refinements.**

5.1. In general, please explain your firm's approach in meeting "project specific" budget requirements and indicate whether Consultant is committed to meet these requirements when identified in this agreement.*

Our firm is committed to meeting the budget requirements for every work authorization awarded under ☒ Pass ☐ Fail this contract. If awarded this contract, Hazen will first meet with the City to clarify the required scope of work. Once the scope items are clarified, Hazen will develop an approximate schedule for each task. This schedule will be input into Hazen's system to ensure that the staff committed to each task will remain committed to these tasks and not be assigned to other projects that will compete for these staff resources.

Our proposed Project Manager, Mr. Curtis, will use the firm's computerized, web-based tool (Deltek Vantagepoint) for project planning, monitoring the cost of each task, and comparing these with actual progress of the work. By constantly monitoring progress, schedule, and budget, he will proactively make any necessary adjustments to keep the work moving forward effectively and efficiently for each work authorization. The City's Project Manager will be kept informed

of any delay or possible cost issue through regular communication. This will allow the City and our team to monitor the progress and budget to identify and resolve issues prior to them negatively impacting the project. We will facilitate early decision making to keep each task on schedule and within budget.

Further, Mr. Curtis will ensure that the appropriate Hazen resources are allocated to each work authorization to complete the project on time and on budget.

5.2. Please advise if your firm is willing to meet the stated budget requirements.*

☒ Pass ☐ Fail

Our firm is committed to performing the work within the stated budget.

5.3. What percentage of your completed projects have had cost overruns?*

☒ Pass ☐ Fail

We honor our cost commitments to clients and ensure negotiated fees are not exceeded, except in cases of exceptional circumstances. We typically absorb cost overruns unless there is a change in scope that can be negotiated with the client. Generally, less than 1% of our completed projects have had cost overruns. We have demonstrated previously to the City completion of all our City projects on time and on budget, with zero cost overruns for the City.

5.4. Tell me about a time when you went over budget and how you handled the situation?*

☒ Pass ☐ Fail

When Hazen establishes a budget with a client, and signs an agreement for that project budget, we've committed to honoring that upper limit and not charging the client for any potential overruns that may occur. Specifically, during design, if our required resources exceed our projected labor for the design, we will take the loss and only bill our client what was in the established agreement.

Hazen works with our clients to establish the correct budget for each project and does not waste our clients' time with minor variances and/or slight overruns on projects: we just get the job done. We have a history of completing our projects with the City on time and on budget and will continue to do so for this important project.

5.5. What cost-saving measures do you implement at your firm?*

☒ Pass ☐ Fail

Hazen implements many cost-savings measures. We operate primarily in a digital format. We produce very few paper deliverables and mostly deliver submittals electronically. Additionally, our largest cost saver is that all of our principals are working principals. Each project manager is also a technical expert and performs overall project management while performing the required scope of services on the project. This results in minimal project management costs for each project because the project manager is so intimately involved.

5.6. Who will be in charge of maintaining the budget on projects and how many accounts is this person assigned to at a given time?*

Our proposed Project Manager, Evan Curtis, PE, will be responsible for maintaining the budget. ☒ Pass ☐ Fail
Additionally, our Project Director, Jennifer McMahon, PE, will have online access to the budget and will check in with Mr. Curtis and with the City regularly. Mr. Curtis may manage up to three or four projects simultaneously. Based on the nature, phase, or task being managed, the projected workload of project management activities will range from 5% to 20% over the course of the project. During the initial planning stages, a greater time percentage commitment may be required. Mr. Curtis is prepared and available for this project. Care is taken to ensure that the Project Manager has a reasonable workload.

5.7. In general, please explain your firm's approach in meeting "project specific" time requirements and indicate whether Consultant is committed to meet these requirements when identified in this agreement.*

☒ Pass ☐ Fail

Hazen is committed to meeting all “project-specific” time requirements for each work authorization. To ensure that the schedule is met in accordance with the City’s timeframe, a detailed project schedule in Microsoft Project or a spreadsheet will be developed immediately following the issuance of a notice to proceed and will be maintained over the course of the project. The project schedule details the steps required to complete the project utilizing a critical path methodology. Using scheduling software provides a time management tool to better track progress of the project in real terms.

We will maintain the project schedule and review deadlines internally and with the City as we complete each work authorization. Mr. Curtis will be responsible for ensuring that the overall schedule for each task is met.

5.8. Please advise if your firm is willing to meet the stated time requirements.*

☒ Pass ☐ Fail

Yes, Hazen is fully prepared and willing to meet the stated time requirements outlined in the City of Pembroke Pines’ solicitation. With over 57 years of continuous service in Florida and a regional headquarters in Hollywood, FL, Hazen has a deep understanding of local permitting, design, and construction processes. Our team is experienced in delivering responsive, on-demand support for municipal electrical engineering projects under Continuing Contracts. We are structured to provide timely field inspections, design deliverables, construction support, and project documentation as needed, ensuring alignment with the City’s expectations and approval processes.

5.9. What is the average turnaround time for a project that is similar to the one(s) identified in this solicitation?

*

The average duration for a similar project from preliminary design through bidding (excluding construction phase services) can extend up to one year, depending on the scope.

☒ Pass ☐ Fail

5.10. What is your average on-time completion rate?*

☒ Pass ☐ Fail

Typically, Hazen is able to complete projects on time almost 100% of the time. Occasionally, external factors may extend a project schedule beyond the contract time. An example of this would be an unusually lengthy review time by a regulatory agency for a permit. Recently, several projects have been delayed due to funding issues from the Owner.

Should a project schedule start to fall behind, Mr. Curtis will access additional internal resources across the region to avoid impacts.

5.11. How many projects does your firm typically take on at a given time?*

☒ Pass ☐ Fail

As a medium-sized consulting firm, our firm may have hundreds of projects in progress at a time. The number of projects that we take on at a time varies based on the size of the project. Hazen operates 84 offices nationwide. Our 10 offices in Florida often work together to complete assignments. If a project risks falling behind schedule, our local office can request support resources from any other office to ensure its timely completion.

5.12. Tell me about a time when the project timeline was delayed and how did you handle the situation?*

During the construction of Broward County North Regional Wastewater Treatment Plant’s Fine Bubble ☒ Pass ☐ Fail Aeration Basin Conversion, the project timeline was delayed. Hazen approached this situation by bringing onboard additional I&C engineers and support staff to work in a coordinated effort to address all construction submittals, RFIs, and witnessed functional and loops tests without delay, eliminating any possible source of scheduling conflict or downtime. By ensuring that no gaps in coverage would occur, Hazen was able to guarantee that time on the critical path did not expand further, and Hazen was able to significantly reduce the amount of overrun the project experienced. Additionally, by working alongside the Client and the Contractor, Hazen was able to facilitate the onboarding of a more capable subcontractor that had a longer work history with the client and extensive expertise on the project site from previous SCADA upgrades in which they were involved.

5.13. Describe the firm's design and construction management methods and techniques. Include details on firm's ability to make decisions and facilitate resolution of disputes.*

Our firm has extensive experience in the design and construction management of utility projects. For ☒ Pass ☐ Fail these types of projects, Hazen believes that the engineer who designed the project allows field conflicts to be resolved most quickly and effectively. When this is not possible, another resident project representative (RPR) oversees construction and remains in constant communication with the design engineer, resolving issues often before the contractor even realizes an issue might exist. Doing so minimizes potential claims from the contractor and expedites the construction process.

Hazen understands that resolving conflicts before they can become claims is critical to the success of the project. Hazen commits to solidifying resolution on construction issues in a timely manner for the City.

5.14. Describe the firm's knowledge and experience with scheduling.*

☒ Pass ☐ Fail

The Hazen team understands the importance of maintaining schedule commitments for all projects. Our experience with similar assignments for comparable local utilities enables us to provide input and lessons learned to the City regarding performance of various activities, streamlining the decision-making process when possible. Proactive management ensures projects remain on schedule. Continuous management of any project is needed to ensure timeliness, quality, and budget. To achieve these goals, we make sure that adequate time is allocated for the Project Manager to perform their duties. We track progress and update our network-logic schedule monthly. This allows us to develop a recovery plan should an unexpected situation occur, which impacts the project schedule. Impacts are added to the network-logic schedule as dedicated activities to identify potential delays to the schedule's critical path. We then analyze the schedule and assess methods to mitigate any delays. Hazen uses Deltek Vantagepoint to provide rapid and accurate accounting of project labor expenditures. These project data facilitate keeping the project on schedule and on budget.

6. RECENT, CURRENT, AND PROJECTED WORKLOADS OF THE FIRMS

Please provide any information regarding your firm's recent, current, and projected workloads for the Evaluation Committee to review.

6.1. Recent Workload: Describe your recent workload.*

☒ Pass ☐ Fail

Our Hollywood office is currently handling several projects related to water, wastewater, and stormwater, which are in different stages of design or construction. This workload is typical for an office of our size.

Specifically, Hazen has approximately 118 recently completed or ongoing projects in Broward County as indicated in the table below. The work under this solicitation will be supported primarily by 10 local Electrical and Instrumentation and Control staff with additional support available from 150 staff nationwide.

Municipality	Number of ongoing or recently completed projects
Broward County	13
Cooper City	8
Fort. Lauderdale	22
Hallandale Beach	4
Hollywood	19
Margate	4
Miramar	5
North Lauderdale	3
Oakland Park	4
Pembroke Pines	8
Plantation	15
Sunrise	13

6.2. Current Workload: Describe your current workload.*

☒ Pass ☐ Fail

If selected for this contract, the individuals listed on our organizational chart will be available to the City. We carefully plan for projects like yours, as well as for other projects such as those listed under 6.3 – Projected Workload. Your project aligns perfectly with our overall strategy and integrates seamlessly into our plan. By leveraging our meticulous planning process, we ensure that every project receives the attention and resources required, resulting in successful outcomes and exceeding expectations. If selected, our experienced engineers will complete their current design assignments and transition directly into the ion exchange design for the City.

We adopt a conservative approach of accepting new assignments only when adequate staff is available for the project's duration. Our proposed Project Director, Jennifer McMahon, PE, and Project Manager, Evan Curtis, PE, will maintain regular communication with the City. This communication allows us to plan resource allocation and staff assignments proactively. In case of unforeseen circumstances requiring project acceleration, our team has support and backup staff experienced in all relevant disciplines. If additional resources are needed, Hazen has sufficient staff across ten Florida offices and can utilize firm-wide staff members.

6.3. Projected Workload: Describe your projected workload.*

☒ Pass ☐ Fail

Upcoming projects in Broward County include:

- City of Hollywood Design of Membrane Train and Corrosion Control Study for PFAS Compliance: This project includes two phases towards full PFAS compliance for the City, installation of another membrane train, and development of a corrosion control treatment protocol for the conversion to 100% membrane.
- City of Hallandale Beach Addition of Second RO Skid for PFAS Compliance: This project includes adding a second RO skid to the existing membrane plant to remove PFAS from the City wells.
- City of Deerfield Beach Risk and Resilience Assessment: This assessment will identify potential risks to critical infrastructure, ensuring that Deerfield Beach is prepared for natural disasters or other emergencies. It involves thorough analysis and planning to enhance city resilience.
- City of Pembroke Pines Ion Exchange Addition to the WTP for PFAS Removal: This project includes the design, permitting, bidding, and construction administration for the implementation of a cost-effective and reliable ion exchange solution to address PFAS removal for the City's WTP.

- City of Sunrise Springtree WWTP Dewatering and Thickening Improvements. This project includes the design, permitting, and bidding for replacement of the gravity belt thickener control panels and associated electrical equipment. The equipment is at the end of its useful life and requires replacement to ensure process reliability

In summary, given our ongoing and upcoming work, Hazen has more than ample capacity to complete work awarded under this continuing services contract.

7. REFERENCE # 1

The minimum experience for this project is **5 years** in Electrical Engineering, Electronics, and Instrumentation and Controls Design for municipal operations. Provide specific examples of similar experience conducting work of equal or similar scope of work, preferably delivered by the proposed team members. A **minimum of 5** references should be provided and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications. In this section you will have the ability to enter information for 5 different references including their contact details and specific project information.

Please note that the City prefers references who are not current employees of the City of Pembroke Pines, as we generally do not contact our own employees for reference checks.

Proposers are advised to confirm that:

1. Each reference provided by the Respondent has up to date contact persons and contact information;
2. The contact person provided for each reference is someone who has personal knowledge of the Proposer's performance during the referenced project; and
3. The contact person for each reference has been contacted by the Proposer regarding this specific bid submittal and such person confirmed their willingness to serve as a reference.

7.1. Reference Contact Information - Name of Firm, City, County or Agency*

☒ Pass ☐ Fail

City of Sunrise, Florida

7.2. Reference Contact Information - Reference's Business Address*

☒ Pass ☐ Fail

777 Sawgrass Corporate Parkway, Sunrise, FL 33351

7.3. Reference Contact Information - Reference's Contact Name & Title*

☒ Pass ☐ Fail

Rodrigo de Castro, PE, Utilities Director

7.4. Reference Contact Information - Reference's E-mail Address*

☒ Pass ☐ Fail

rdecastro@sunrisefl.gov

7.5. Reference Contact Information - Reference's Phone Number*

☒ Pass ☐ Fail

(954) 888-6055

7.6. Project Information - Was your firm the prime contractor for the listed project?*

☒ Pass ☐ Fail

Yes

7.7. Project Information - Name of Contactor Performing the Work*☒ Pass ☐ Fail

Hazen and Sawyer

7.8. Project Information - Name and location of the project*☒ Pass ☐ Fail

Springtree WTP Electrical Upgrades Phase 1 and Phase 2, Sunrise, Florida

7.9. Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for*

The City of Sunrise (City) operates and maintains the City's Springtree Water Treatment Plant (WTP), ☒ Pass ☐ Fail which includes a low and medium voltage electrical power distribution system. Critical portions of the electrical system have reached the end of their useful lives and have become a liability to the plant with the potential to limit the flow and volume of water that can be treated and distributed daily. The City has experienced the following concerns with the equipment and requires immediate replacement.

- Testing of equipment creates hazard to staff
- End of useful life (25+ years)
- One VFD has failed and is unable to obtain replacement parts

To facilitate the equipment requiring immediate replacement, the City and Hazen developed a two-phased approach to address the facility needs. The work is phased as follows:

Phase 1:

- Replacement of low voltage (480V) motor control centers, MCC-1 and MCC-2
- Replacement of low voltage (480V) Unit Substations 1 and 2 with a new (480V) main-tie-main switchboard and outdoor, liquid-filled, pad mounted transformers
- Replacement of high Service Pump VFDs including demolition of the isolation transformers
- Replacement of high service pumps, motors, and ancillary piping and appurtenances

Phase 2:

- Replacement of the plant's medium voltage (5kV) main switchgear and generator switchgear, including controls
- Replacement of the plant's medium voltage (5kV) electrical distribution equipment within the main electrical building (e.g. MV-MCC-1A/B)

J. Brad Pickett, PE: Electrical Engineer-of-Record

Patrick Bowles, PE: Project Engineer

Jose Cano, PE: Project Engineer

7.10. Project Information - Project Duration*☒ Pass ☐ Fail

2019-Present

7.11. Project Information - Completion (Anticipated) Date*☒ Pass ☐ Fail

2027

7.12. Project Information - Size of Project*☒ Pass ☐ Fail

25.5-mgd WTP Capacity

7.13. Project Information - Cost of Project*☒ Pass ☐ Fail

Phase 1 and Phase 2: \$337,700 (Design fee), \$574,300 (CMS fee), \$12,391,000 (Construction)

8. REFERENCE # 2

8.1. Reference Contact Information - Name of Firm, City, County or Agency*☒ Pass ☐ Fail

City of Plantation, Florida

8.2. Reference Contact Information - Reference's Business Address*☒ Pass ☐ Fail

400 NW 73rd Avenue, Plantation, FL 33317

8.3. Reference Contact Information - Reference's Contact Name & Title*☒ Pass ☐ Fail

Daniel Pollio, Utilities Director

8.4. Reference Contact Information - Reference's E-mail Address*☒ Pass ☐ Fail

dpollio@plantation.org

8.5. Reference Contact Information - Reference's Phone Number*☒ Pass ☐ Fail

(954) 797-2209

8.6. Project Information - Was your firm the prime contractor for the listed project?*☒ Pass ☐ Fail

Yes

8.7. Project Information - Name of Contactor Performing the Work*☒ Pass ☐ Fail

Hazen and Sawyer

8.8. Project Information - Name and location of the project*☒ Pass ☐ Fail

Plantation Regional WWTP Diffused Aeration Upgrades, Plantation, Florida

8.9. Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for*

As part of a larger upgrade to the Plantation Regional Wastewater Treatment Plant (WWTP), Hazen ☒ Pass ☐ Fail designed and provided services during construction for the replacement of the SCADA system. The design integrated existing equipment and Programmable Logic Controllers (PLCs) and expanded the plant's control network. The existing SCADA system included a single workstation with limited capabilities and a control panel-mounted operator interface unit. The new SCADA system includes a high-performance HMI (HPHMI) graphics/historian suite installed on redundant servers. Approximately 200 signals from six existing and five new PLCs, including the aeration basins, chemical metering systems, emergency generators, gravity belt thickeners, odor control system, and disinfection system, were integrated into the new SCADA HMI and historian.

Evan Curtis, PE: Instrumentation and Control Engineer-of-Record

John Burke, PE: Electrical Engineer-of-Record

Elie Andary, PhD, PE: Construction Manager

Anthony Niemiec, Jr., PE: Resident Project Representative

8.10. Project Information - Project Duration*☒ Pass ☐ Fail

2017-2018

8.11. Project Information - Completion (Anticipated) Date*☒ Pass ☐ Fail

2018

8.12. Project Information - Size of Project*☒ Pass ☐ Fail

18.9-mgd WWTP

8.13. Project Information - Cost of Project*☒ Pass ☐ Fail

Total Fee: \$550.000 (Design); Project Cost: \$8.5 million (overall WWTP upgrades; \$1 million (SCADA))

9. REFERENCE # 3**9.1. Reference Contact Information - Name of Firm, City, County or Agency***☒ Pass ☐ Fail

City of Miami Beach, Florida

9.2. Reference Contact Information - Reference's Business Address*☒ Pass ☐ Fail

1700 Convention Center Drive, Miami Beach, Florida

9.3. Reference Contact Information - Reference's Contact Name & Title*☒ Pass ☐ Fail

Omar Mendoza, PE / Acting Planning and Design Manager

9.4. Reference Contact Information - Reference's E-mail Address*☒ Pass ☐ Fail

Omarmendoza@miamibeachfl.gov

9.5. Reference Contact Information - Reference's Phone Number*☒ Pass ☐ Fail

305-673-7080 Ext. 26154

9.6. Project Information - Was your firm the prime contractor for the listed project?*☒ Pass ☐ Fail

Yes

9.7. Project Information - Name of Contactor Performing the Work*☒ Pass ☐ Fail

Hazen and Sawyer

9.8. Project Information - Name and location of the project*☒ Pass ☐ Fail

Sewer Pump Station 28 Rehabilitation, Miami Beach, Florida

9.9. Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for*

Hazen provides design and construction managements services for improvements/rehabilitation of the ☒ Pass ☐ Fail City's largest wastewater pump station, increasing pump station performance and reliability, including hardening improvements to mitigate risks from sea level rise and climate change. Sewer Pump Station 28 (PS 28) is owned and operated by the City of Miami Beach. The station is located at 300 West 28th Street and is a dry well – wet well configuration. The PS 28 lift station (PS 28L) collects flow from its own collection basin as well as two upstream pump stations, PS 13 and 14. PS 28L is a triplex lift station consisting of three 200 horse-power (HP) (two in operation, one standby unit) pumps, that pump the gravity influent into a 36-inch discharge header associated with the booster pumps. PS 28 is also equipped with booster pumps (PS 28B) that boost the flows generated by PS 15, 18, 27, and 29. The 42-inch influent force main feeding the booster pumps enters the station on the east side of the dry well. Similar to PS 28L, PS 28B is a triplex configuration. The 350 HP booster pumps discharge into the 36-inch header to which PS

28L is manifolded. Wastewater from the booster/lift station is pumped southward via a 30-inch force main to the south end of the island, where it exits the City through Miami-Dade Water and Sewer Department (MDWASD) Meter No. M-29 discharging to the Central District Wastewater Treatment Plant (CDWWTP) for treatment and disposal.

Jennifer McMahon, PE: Technical Advisor

John Burke, PE: Electrical Engineer-of-Record

Evan Curtis, PE: Instrumentation and Control Engineer-of-Record

Anthony Niemiec, PE: Mechanical Engineer-of-Record / Construction Manager

Kyle Ringger, PE: Project Engineer

9.10. Project Information - Project Duration*

☒ Pass ☐ Fail

2022-Present

9.11. Project Information - Completion (Anticipated) Date*

☒ Pass ☐ Fail

2027

9.12. Project Information - Size of Project*

☒ Pass ☐ Fail

Dry Pit Pumps: 15.1-mgd

Booster Pumps: 34.6-mgd

9.13. Project Information - Cost of Project*

☒ Pass ☐ Fail

Total Fees: \$1.16 million (design), \$2.2 million (CMS); Total Construction Cost: \$43.9 million

10. REFERENCE # 4

10.1. Reference Contact Information - Name of Firm, City, County or Agency

☒ Pass ☐ Fail

Seminole Tribe of Florida, Hollywood, FL

10.2. Reference Contact Information - Reference's Business Address

☒ Pass ☐ Fail

5700 Griffin Road, Davie, FL 33314

10.3. Reference Contact Information - Reference's Contact Name & Title

☒ Pass ☐ Fail

Mr. Bruce Cole, PE / Director Seminole Tribe of Florida Public Works Department

10.4. Reference Contact Information - Reference's E-mail Address

☒ Pass ☐ Fail

Brucecole@semtribe.com

10.5. Reference Contact Information - Reference's Phone Number

☒ Pass ☐ Fail

(954) 894-1060 ext. 10932

10.6. Project Information - Was your firm the prime contractor for the listed project?

☒ Pass ☐ Fail

Yes

10.7. Project Information - Name of Contactor Performing the Work

☒ Pass ☐ Fail

Hazen and Sawyer

10.8. Project Information - Name and location of the project☒ Pass ☐ Fail

Seminole Tribe Hollywood WWTP, Hollywood, Florida

10.9. Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for

As part of our work on the greenfield STOF Hollywood WWTP project, Hazen designed and provided ☒ Pass ☐ Fail services during construction for installation of a facility SCADA system. Hazen was retained to plan, design, permit, assist during bid and provide services during construction and startup of a nine million gallon per day capacity sequencing batch reactor wastewater treatment plant (WWTP) for the Seminole Tribe of Florida. This WWTP, located in the City of Hollywood, will service additional flows from the Hard Rock hotel and casino currently under construction. The WWTP SCADA system is designed to be fully automated and operated from a remote location.

Evan Curtis, PE: Instrumentation and Control Engineer-of-Record

John Burke, PE: Electrical Engineer-of-Record

Elie Andary, PhD, PE: Construction Manager

Kyle Ringger, PE: Resident Project Representative

Anthoy Niemiec, Jr., PE: Resident Project Representative

10.10. Project Information - Project Duration☒ Pass ☐ Fail

4/2016-4/2020 (through construction)

10.11. Project Information - Completion (Anticipated) Date☒ Pass ☐ Fail

2020

10.12. Project Information - Size of Project☒ Pass ☐ Fail

3-mgd AADF

10.13. Project Information - Cost of Project☒ Pass ☐ Fail

Design Fee: \$1.9 million, CMS Fee: \$5.2 million; Project Cost: \$54 million

11. REFERENCE # 5**11.1. Reference Contact Information - Name of Firm, City, County or Agency**☒ Pass ☐ Fail

City of Boca Raton, Florida, Utility Services Department

11.2. Reference Contact Information - Reference's Business Address☒ Pass ☐ Fail

1401 Glades Road, Boca Raton, FL 33431

11.3. Reference Contact Information - Reference's Contact Name & Title☒ Pass ☐ Fail

Michael Tufts, Instrumentation SCADA Superintendent

11.4. Reference Contact Information - Reference's E-mail Address☒ Pass ☐ Fail

Mtufts@bocaraton-fl.gov

11.5. Reference Contact Information - Reference's Phone Number☒ Pass ☐ Fail

561-447-7411

11.6. Project Information - Was your firm the prime contractor for the listed project?☒ Pass ☐ Fail

Yes

11.7. Project Information - Name of Contactor Performing the Work☒ Pass ☐ Fail

Hazen and Sawyer

11.8. Project Information - Name and location of the project☒ Pass ☐ Fail

Water and Wastewater Telemetry Reliability Upgrade, Boca Raton, FL

11.9. Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for

Hazen performed the design and construction management services of a 288-site radio telemetry system. The project included design of upgrades to remote telemetry units, 900 MHz licensed radio base station equipment, the addition of cellular communication links, and electrical improvements. The upgraded system replaces the existing serial Modbus protocol with Ethernet DNP3 protocol featuring event logging at each RTU and report-by-exception communications. Cellular communication was provided to each site and both cellular and licensed 900 MHz radios at critical sites with automatic failover between cellular and radio. These components included replacement of all RTUs with Allen-Bradley MicroLogix 1400 PLCs and cellular modems, furnishment of new enclosures, refurbished enclosures, and/or new enclosure back plates; updating the communications protocol from Modbus serial to DNP3 over ethernet; configuration of the system to optimize performance within the parameters of the City's selected M2M cellular data plan; installation of two (2) 928/952 MHz base station radios and omnidirectional antennas at the Complex's elevated backwash tanks; equipping of select sites with both cellular and 928/952 MHz radios; among other associated telemetry system upgrades.

☒ Pass ☐ Fail

Evan Curtis, PE: Instrumentation and Control Engineer-of-Record

Kyle Ringger, PE: Project Engineer

11.10. Project Information - Project Duration☒ Pass ☐ Fail

2016-2021 (design through construction)

11.11. Project Information - Completion (Anticipated) Date☒ Pass ☐ Fail

2021 (construction completion)

11.12. Project Information - Size of Project☒ Pass ☐ Fail

288 project sites were upgraded under this project consisting of wastewater lift stations, raw water wells, water distribution pump stations, and reclaimed water distribution facilities.

11.13. Project Information - Cost of Project☒ Pass ☐ Fail

\$310,370 (fee, design, bidding); \$289,402 (fee, services during construction); \$4.38 million (construction)

12. PROJECT DOCUMENTS

12.1. STANDARD FORM 330 (PARTS I and II)*

☒ Pass ☐ Fail

- Firms shall complete both Part I and II of the Standard Form 330 so that the City can obtain adequate information for this RFQ.

 [Standard Form 330.pdf](#)

 [Final_SF330_1021-751.pdf](#)

12.2. PROPOSERS BACKGROUND INFORMATION FORM*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Proposers_Background_Information_Form.xlsx](#)

 [Hazen_Response_to_Question_1.9.1_Proposer_Background_Info_Form.pdf](#)

 [Proposers_Background_Information_Form_751.xlsx](#)

13. SWORN STATEMENT ON PUBLIC ENTITY CRIMES UNDER FLORIDA STATUTES CHAPTER 287.133(3) (a)

13.1. SWORN STATEMENT ON PUBLIC ENTITY CRIMES FORM*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Sworn_Statement_on_Public_Entity_Crimes.pdf](#)

 [Sworn_Statement_on_Public_Entity_Crimes_751.pdf](#)

13.2. Public Entity Crimes Status*

☒ Pass ☐ Fail

- Which option did you select on the Sworn Statement on Public Entity Crimes Form:
 - A) Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.
 - B1) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in 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, AND There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)
 - B2) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in 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, AND The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

- B3) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in 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, AND The person or affiliate has not been placed on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

A) No convictions.

13.3. Did you select option B1 or B2 above?*

☒ Pass ☐ Fail

No

13.4. Did you select option B3 above?*

☒ Pass ☐ Fail

No

14. EQUAL BENEFITS CERTIFICATION FOR DOMESTIC PARTNERS AND ALL MARRIED COUPLES

14.1. EQUAL BENEFITS CERTIFICATION FORM*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Equal_Benefits_Certification_Form.pdf](#)

 [Equal_Benefits_Certification_Form_751.pdf](#)

14.2. Equal Benefits Status*

☒ Pass ☐ Fail

- Which option did you select on the Equal Benefits Certification Form:
 - A. Contractor currently complies with the requirements of this section; or
 - B. Contractor will comply with the conditions of this section at the time of contract award; or
 - C. Contractor will not comply with the conditions of this section at the time of contract award; or
 - D. Contractor does not comply with the conditions of this section because of the following allowable exemption (Check only one box below):
 - 1. The Contractor does not provide benefits to employees' spouses in traditional marriages;
 - 2. The Contractor provides an employee the cash equivalent of benefits because the Contractor is unable to provide benefits to employees' Domestic Partners or spouses despite making reasonable efforts to provide them. To meet this exception, the Contractor shall provide a notarized affidavit that it has made reasonable efforts to provide such benefits. The affidavit shall state the efforts taken to provide such benefits and the amount of the cash equivalent. Cash equivalent means the amount of money paid to an employee with a Domestic Partner or spouse rather than providing benefits to the employee's Domestic Partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee's spouse;
 - 3. The Contractor is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated supervised or controlled by or in conjunction with a religious organization, association, or society;
 - 4. The Contractor is a governmental agency;

A) Contractor currently complies.

14.3. Did you select option D2 above?*

☒ Pass ☐ Fail

No

15. DRUG-FREE WORKPLACE CERTIFICATION

15.1. VENDOR DRUG FREE WORKPLACE CERTIFICATION*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Vendor Drug-Free Workplace Certification Form.pdf](#)

 [Vendor Drug-Free Workplace Certification Form 751.pdf](#)

15.2. Drug-Free Status*

☒ Pass ☐ Fail

Complies fully.

16. STANDARD DOCUMENTS

The following documents are standard documents that the City generally requires for every solicitation. As a result, we recommend vendors to keep these documents updated and readily available so that they can be easily uploaded for each project that the vendor would like to participate in. In the event that the City does not have one of the forms or documents listed below for your company, the City may reach out to your company after the bid has closed to obtain the document(s).

16.1. NON-COLLUSIVE AFFIDAVIT*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Non-Collusive Affidavit.pdf](#)

 [Non-Collusive Affidavit 751.pdf](#)

16.2. SCRUTINIZED COMPANY CERTIFICATION*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Scrutinized Company Certification.pdf](#)

 [Scrutinized Company Certification 751.pdf](#)

16.3. E-VERIFY SYSTEM CERTIFICATION*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.
2. Effective January 1, 2021, pursuant to Section 448.095, Florida Statutes, the City may not enter into a contract with a vendor/contractor/subcontractor unless that vendor/contractor/subcontractor is registered with and uses the E-Verify system administered by the U.S. Department of Homeland Security ("DHS").

3. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

 [E-Verify_System_Certification_Statement.pdf](#)

 [E-Verify_System_Certification_Statement_751.pdf](#)

16.4. HUMAN TRAFFICKING AFFIDAVIT*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Human_Trafficking_Affidavit.pdf](#)

 [Human_Trafficking_Affidavit_751.pdf](#)

17. VENDOR REGISTRATION

17.1. Do you currently have a City of Pembroke Pines Vendor Number registered in the PaymentWorks System?*

- The City of Pembroke Pines utilizes OpenGov as its e-Procurement platform for ☒ Pass ☐ Fail solicitation and bid submission purposes. However, please be advised that **vendor registration for onboarding and processing payments is handled separately** through the City's Accounts Payable Division using **PaymentWorks**, a secure online vendor management platform.
- All vendors that will be submitting invoices and requiring payments from the City are required to register on the PaymentWorks platform. If the vendor is not currently registered with the City via PaymentWorks and does not have a Vendor Number, the City will have to invite the vendor to register.
- For formal solicitations such as this project, the Procurement Department will send PaymentWorks registration invitations to vendor(s) who are under active consideration for award. Please be aware that not all vendors who submit proposals will receive an invitation, in order to manage system usage and avoid onboarding vendors who are unlikely to receive payments from the City.
- Invitations will typically be sent to the contact listed on the submitted Vendor Information Form.

No

17.2. VENDOR INFORMATION FORM*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Vendor_Information_Form.pdf](#)

 [Vendor_Information_Form_with_attachments_751.pdf](#)

17.3. FORM W-9 (REVISED MARCH 2024)*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.
2. Note - Please use the March 2024 version of the form as previously dated versions of this form may delay the processing of any payments to the selected vendor.

18. OPTIONAL DOCUMENTATION

18.1. TRADE SECRETS

1. The Proposer's response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.
2. Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.
3. EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE OPENGOV WEBSITE AS A SEPARATE ATTACHMENT, IN THIS SECTION, CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.
4. The city's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records.

No response submitted

18.2. FINANCIAL STATEMENTS

1. The City is **NOT** requesting the vendor to submit any financial statements for this project and prefers if the vendor does not submit financial statements. In addition, if the City needs a copy of the vendor's financial statements, the City can contact the vendor after the bid due date to request those documents. However, if the vendor does submit the financial statements, they should be uploaded in this section.
2. Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a "public works" project.

No response submitted

18.3. ADDITIONAL INFORMATION

☒ Pass ☐ Fail

1. Please provide any additional information that you deem necessary to complete your proposal in this section, if it has not been requested in another section.

 [Final_Cover_Letter_Pembroke_Pines_Power_Electrical_Engineering_Services_1021-751.pdf](#)

18.4. PROFESSIONAL LICENSES

☒ Pass ☐ Fail

1. If applicable, please upload any professional licenses that may be required to perform the services outlined in the solicitation.

 [Hazen_Professional_Licenses_PE.pdf](#)

19. VENDOR CLASSIFICATION

19.1. Is your firm a Local Pembroke Pines Vendor (LPPV) and Local Broward County Vendor (LBCV)?*

1. The evaluation of competitive bids is subject to section 35.36 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with either of the following objective criteria as of the bid or proposal submission date stated in the solicitation. A local business shall be defined as:
 1. **"Local Pembroke Pines Vendor"** shall mean a business entity which has maintained a permanent place of business with full-time employees within the City limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the City of Pembroke Pines, **OR**;
 2. **"Local Broward County Vendor"** shall mean or business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Broward County or the city within Broward County where the business resides.
2. A preference of five percent (5%) of the total evaluation point, or five percent (5%) of the total price, shall be given to the Local Pembroke Pines Vendor(s); A preference of two and a half percent (2.5%) of the total evaluation point for local, or two and a half percent (2.5%) of the total price, shall be given to the Local Broward County Vendor(s).

Yes

19.1.1. Please indicate your Local Vendor Status*

☒ Pass ☐ Fail

Local Broward County Vendor (LBCV)

19.1.2. Local Vendor Preference Certification*

☒ Pass ☐ Fail

1. Please download the attached document, complete all required fields, and upload the completed form here.

 [Local_Vendor_Preference_Certification.pdf](#)

 [Local_Vendor_Preference_Certification_751.pdf](#)

19.1.3. Local Business Tax Receipts*

☒ Pass ☐ Fail

1. If claiming Local Vendor Preference, please upload any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.

 [Hazen_Local_Business_Tax_Receipts.pdf](#)

19.2. Is your firm a Veteran Owned Small Business (VOSB)?*

☒ Pass ☐ Fail

1. The evaluation of competitive bids is subject to section 35.37 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to veteran owned small businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with the following objective criteria as of the bid or proposal submission date stated in the solicitation.
2. A preference of two and a half percent (2.5%) of the total evaluation point, or two and a half percent (2.5%) of the total price, shall be given to the Veteran Owned Small Business (VOSB).

No

19.3. Is your firm a Minority-Owned Business Enterprise (MBE)?*

☒ Pass ☐ Fail

No

19.4. Is your firm a Woman-Owned Business Enterprise (WBE)?*

☒ Pass ☐ Fail

No

19.5. Is your firm a HubZone Business / Labor Surplus Area Firm?*

☒ Pass ☐ Fail

No

19.6. Is your firm a Broward County Small Business Enterprise (SBE)?*

☒ Pass ☐ Fail

No

19.7. Is your firm a Broward County Business Enterprise (CBE)?*

☒ Pass ☐ Fail

No

19.8. Is your firm a Broward County Disadvantaged Business Enterprise (DBE)?*

☒ Pass ☐ Fail

No

19.9. Does your firm have a Vendor Classification that was not listed above?*

☒ Pass ☐ Fail

No



HAZE&SA-01

KSUTTON

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

9/11/2025

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 Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102	CONTACT NAME:		
	PHONE (A/C, No, Ext): (703) 827-2277	FAX (A/C, No): (703) 827-2279	
	E-MAIL ADDRESS: admin@amesgough.com		
	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : Continental Casualty Company (CNA) A, XV	20443	
INSURED Hazen and Sawyer 498 Seventh Avenue New York, NY 10018	INSURER B : National Fire Insurance Company of Hartford A(XV)	20478	
	INSURER C : Continental Insurance Company A(XV)	35289	
	INSURER D : American Casualty Co of Reading, PA A(XV)	20427	
	INSURER E :		
	INSURER F :		

COVERAGES

CERTIFICATE NUMBER:

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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Contractual Liab. GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☐ LOC OTHER:			7036845683	3/29/2025	3/29/2026	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY			7036845635	3/29/2025	3/29/2026	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Comp./Coll. Ded \$ 1,000
C	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$ 10,000			7036845649	3/29/2025	3/29/2026	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000 \$
D	☒ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) ☒ Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	7036845652	3/29/2025	3/29/2026	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	☒ Professional Liab.			AEH008231489	3/29/2025	3/29/2026	Per Claim/Aggregate 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: RFQ# PSUT-25-10 POWER ELECTRICAL ENGINEERING SERVICES

City of Pembroke Pines, FL is included as additional insured with respect to General Liability, Automobile Liability and Umbrella Liability when required by written contract. General Liability, Automobile Liability and Umbrella Liability are primary and non-contributory over any existing insurance and limited to liability arising out of the operations of the named insured and when required by written contract. General Liability, Automobile Liability, Umbrella Liability and Workers Compensation policies include a waiver of subrogation in favor of the additional insureds where permissible by state law and when required by written contract. 30-day Notice of Cancellation will be issued for the General Liability, Automobile Liability, Umbrella Liability, Workers Compensation and SEE ATTACHED ACORD 101

CERTIFICATE HOLDER

CANCELLATION

City of Pembroke Pines, FL 601 City Center Way Pembroke Pines, FL 33025	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



ADDITIONAL REMARKS SCHEDULE

AGENCY Ames & Gough		NAMED INSURED Hazen and Sawyer 498 Seventh Avenue New York, NY 10018
POLICY NUMBER SEE PAGE 1		
CARRIER SEE PAGE 1	NAIC CODE SEE P 1	EFFECTIVE DATE: SEE PAGE 1

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:

Professional Liability policies in accordance with policy terms and conditions.

Umbrella Liability coverage sits excess over General Liability, Automobile Liability and Employers Liability coverage.

Pollution Liability coverage is provided and included within the Professional Liability policy noted above. It shares the limits of the Professional Liability policy.

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Power Electrical Engineering Services, Pembroke Pines, Florida

2. PUBLIC NOTICE DATE
08/19/2025

3. SOLICITATION OR PROJECT NUMBER
RFQ #PSUT-25-10

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Jennifer McMahon, PE, Vice President

5. NAME OF FIRM

Hazen and Sawyer

6. TELEPHONE NUMBER
(954) 987-0066

7. FAX NUMBER
None

8. E-MAIL ADDRESS
jmcMahon@hazenandsawyer.com

C. PROPOSED TEAM

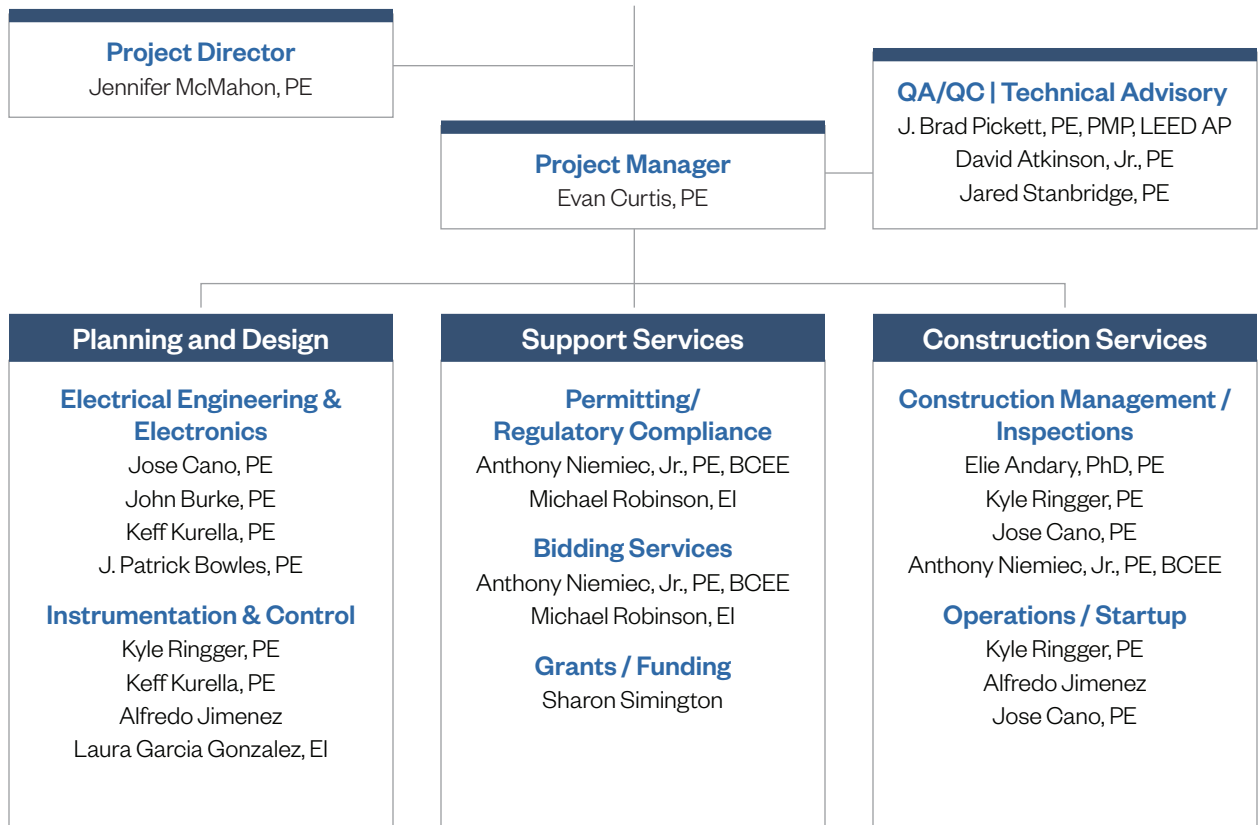
(Complete this section for the prime contractor and all key subcontractors.)

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J.V. PARTNER	SUBCON-TRACTOR			
a.	☒	☐	☐	Hazen and Sawyer ☒ CHECK IF BRANCH OFFICE	4000 Hollywood Boulevard Suite 750N Hollywood, FL 33021	Project Oversight/Direction, Construction Management/ Inspections, Instrumentation & Control, Permitting & Regulatory Compliance, Bidding Services, Operations & Startup
b.	☒	☐	☐	Hazen and Sawyer ☒ CHECK IF BRANCH OFFICE	2101 NW Corporate Boulevard Suite 301 Boca Raton, FL 33431	Project Management, Instrumentation & Control Design Lead
c.	☒	☐	☐	Hazen and Sawyer ☒ CHECK IF BRANCH OFFICE	999 Ponce de Leon Boulevard Suite 1150 Coral Gables, FL 33143	Electrical Engineering/Electronics, Construction Management/ Inspections, Operations & Startup
d.	☒	☐	☐	Hazen and Sawyer ☒ CHECK IF BRANCH OFFICE	6675 Corporate Center Parkway Suite 330 Jacksonville, FL 32216	Electrical Engineering/Electronics
e.	☒	☐	☐	Hazen and Sawyer ☒ CHECK IF BRANCH OFFICE	1000 N Ashley Drive Suite 1000 Tampa, FL 33602	Electrical Engineering/Electronics, Grants/Funding
f.	☒	☐	☐	Hazen and Sawyer ☒ CHECK IF BRANCH OFFICE	1300 Altmore Avenue Suite 520 Atlanta, GA 30342	QA/QC Technical Advisory
g.	☒	☐	☐	Hazen and Sawyer ☒ CHECK IF BRANCH OFFICE	4011 WestChase Boulevard Suite 500 Raleigh, NC 27607	QA/QC Technical Advisory

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)

Organizational Chart



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jennifer McMahon, PE Vice President	13. ROLE IN THIS CONTRACT Project Director	14. YEARS EXPERIENCE a. TOTAL 28	b. WITH CURRENT FIRM 21
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15. FIRM NAME AND LOCATION (City and State)
Hazen and Sawyer, Hollywood, Florida



16. EDUCATION (DEGREE AND SPECIALIZATION) MSEnvE, Environmental Engineering BCE, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Ms. McMahon has 28 years of experience in the water and wastewater industry including project management and civil, mechanical, and process design. She has experience with the detailed design for infrastructure related to water treatment and distribution, wastewater treatment, collection and transmission, and stormwater collection and transmission. Ms. McMahon has served as Project Manager for the City of Pembroke Pines' Continuing Services contract for Wastewater Treatment Plant Process Engineering, Pumping, and Force Mains since 2021. She is skilled in detailed design, construction management, and project management, and provides quality control reviews for numerous design projects. She also has a proven history of delivering projects on budget and on schedule, as demonstrated on numerous projects for multiple clients. **Professional Organizations:** American Society of Professional Civil and Southeast Desalting Association

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
City of Hallandale Beach Reverse Osmosis Skid Addition, FL		PROFESSIONAL SERVICES Anticipated 10/2025	CONSTRUCTION (If applicable) Anticipated 9/2025
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm This project includes a 2-mgd reverse osmosis skid addition at the City of Hallandale Beach WTP. The project also included a 350-Hp membrane feed pump, reverse osmosis membrane softening skid, chemical metering pumps, and other ancillary improvements. This innovative design includes a skid that can accommodate a range of raw water salinity. Project responsibilities included development of detailed design drawings, development of technical specifications, and multidisciplinary design coordination. Cost: \$5 million (est. construction). Specific Role: Project Manager, Lead Design Engineer.		
Lift Station 309 Improvements, Sunrise, Florida		PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2023
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Ms. McMahon served as Project Manager and Lead Design Engineer for improvements to Lift Station 309 in the Town of Davie for the City of Sunrise. This multi-jurisdictional project includes hydraulic modeling to confirm pump sizing, bypass pumping, replacement of pumps, electrical gear, valves, hatches, and other miscellaneous improvements. This project included coordination with FP&L and the installation of a new transformer for higher capacity pumps. Specific Role: Project Manager and Lead Design Engineer		
City of Hallandale Beach Transfer Pump Replacement, FL		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm The City of Hallandale Beach's three transfer pumps and electrical equipment, originally constructed in 1967, were at the end of their useful life. The City retained Hazen to provide design, permitting, bidding and services during construction for replacement of the high service pumps in 2017. The design included four new horizontal split-case pumps designed for 5,600 gpm at 50 feet total dynamic head equipped with variable frequency drives. Maintaining continuous water plant operation during construction required design of a complex sequence of construction to ensure no disruption to treatment during short (less than six hours) interruptions to transfer pumping. The design included new pumps, piping, electrical feed, and control systems. Cost: \$1.7 million (bid). Specific Role: Mechanical and Process Design Engineer.		
City of Fort Lauderdale Fiveash WTP Reliability Upgrades, FL		PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Ms. McMahon served as a Project Engineer for the City of Fort Lauderdale's Fiveash WTP Reliability Upgrades project. The Fiveash WTP is a 70-mgd lime softening plant that was originally constructed in the 1950s. Many of the plant processes are at the end of their useful life. This project included the design of improvements to numerous plant processes and structures, including: a new backup power generation building (with two 1,250 kilowatt generators), renovation of the primary control room, automation of plant processes (including Profibus communication to valves, mag meters and remote I/O) and storm hardening of key facilities. Additionally, the project includes replacement of the 90-ton chlorine railcar system with a bulk (12%) sodium hypochlorite facility (capable of feeding 6,000 pounds per day of equivalent chlorine) and a carbon dioxide dosing system. Status: in 2019, the City canceled the bids to reduce the scope given its decision to construct a replacement WTP. Cost: \$49 million (bid). Specific Role: Project Engineer.		
North Regional Wastewater Treatment Plant Facility Improvements Phase III (5) Biological, Broward County Water and Wastewater Services, FL		PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) TBD
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Ms. McMahon serves as Project Manager and Lead Design Engineer for improvements to the biological facilities at the NRWTP for Broward County Water and Wastewater Services. Project responsibilities included the detailed design for the replacement of scum pumps, waste-activated sludge pumps, return activated sludge pumps, and installation of various flow meters, control valves, and other ancillary facilities. Specific Role: Project Manager and Lead Design Engineer.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Evan Curtis, PE Associate Vice President	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 23

15. FIRM NAME AND LOCATION (City and State)
Hazen and Sawyer, Boca Raton, Florida



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Curtis is an expert in the design of instrumentation and controls (I&C) for water and wastewater treatment and pumping facilities. He is Hazen's Corporate I&C Discipline Group Leader. In this role, he develops technical standards and resources that are shared across the firm. On project work, he serves as lead I&C engineer, technical advisor, or as project manager on projects that are largely I&C focused. **Professional Organizations:** Instrumentation, Systems and Automation Society; American Water Works Association

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Water and Wastewater Telemetry Reliability Upgrade, Boca Raton, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2021
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Curtis was responsible for the design of a 288-site radio telemetry system. The project included design of upgrades to remote telemetry units, 900 MHz licensed radio base station equipment, the addition of cellular communication links, and electrical improvements. The upgraded system replaces the existing serial Modbus protocol with Ethernet DNP3 protocol featuring event logging at each RTU and report-by-exception communications. Cellular communications was provided to each site and both cellular and licensed 900 MHz radios at critical sites with automatic failover between cellular and radio. Cost: \$310,370 (fee, design and bidding); \$4.38 million (construction) Specific Role: Project Manager/ Instrumentation and Controls Engineer	☒ Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Wastewater Master Plan City of Sunrise, Florida	PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable) N/A
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE I&C Engineer responsible for evaluating existing instrumentation and control systems and recommending capital improvements at the City's Springtree WWTP and Sawgrass WWTP. The project included interviewing plant operations and maintenance staff, and inspecting each liquid and solids process stream, primary and backup power systems, instrumentation and control systems. Developed capital improvement cost estimates and implementation schedules. Completed in 2008. Cost: \$654,284 Specific Role: I&C Engineer	☒ Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Pine Island Road Pump Station Cooper City, FL	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2012
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE I&C engineer responsible for design and construction phase services for a new 4 MGD water distribution re-pump station. The design featured 3 variable speed pumps with fully automatic pressure and flow controls, emergency power generator, digital security cameras and a high speed communication link to the water treatment plant using a secure virtual private network over the Internet. Communication links utilized landline broadband service from the telephone company with cellular communications as a backup. Cost: \$1.8 million (estimated fee). Specific Role: I&C Engineer	☒ Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Master Pump Station 310 Broward County, FL	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2015
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hazen provided professional consulting services to Broward County Water and Wastewater Services for the design and construction management of a new inline wastewater booster pump station including primary pumps, jockey pumps, seal water system, and on-site lift station. The control system features PLC-based automated controls for the variable speed booster pumps and pump discharge throttling valves. Cost: \$3.2 million (construction, est.) Specific Role: I&C Engineer	☒ Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) East Central Regional WRF Biosolids Improvements, Palm Beach County, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2020
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Curtis was the Lead I&C engineer for this project for design and construction of new biosolids processing facilities at the 70-mgd ECRWRF. The project included sludge storage and thickening upgrades and new facilities for temperature-phased anaerobic digestion, centrifuge dewatering, septage/grease receiving, odor control, and conversion of an aerobic digester to an aeration basin. The control system design was based on Allen-Bradley PLCs and Trihedral VTScada HMI software. Cost: \$96.8 million (construction) Specific Role: Lead I&C Engineer	☒ Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME J. Brad Pickett, PE, PMP, LEED AP	13. ROLE IN THIS CONTRACT QA/QC Technical Advisory	14. YEARS EXPERIENCE a. TOTAL 18	b. WITH CURRENT FIRM 18
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15. FIRM NAME AND LOCATION (City and State)
Hazen and Sawyer, Raleigh, North Carolina



16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE, Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Electrical Engineering LEED AP Project Management Professional (PMP)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Pickett specializes in the design of electrical power distribution systems for water and wastewater treatment and pumping facilities and the evaluation of existing electrical systems at operating facilities. His experience includes low and medium voltage power distribution, lighting, motor controls, fire alarm systems, access control systems, power system and arc flash studies, and variable frequency drives. He is proficient in computer analysis and design of electrical power systems using SKM Power Tools.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Biosolids Management Improvements City of Sunrise, FL	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm a. Improvements project included new centrifuge dewatering facilities, polymer storage, sodium hypochlorite facility, and renovations to the waste activated sludge process by adding positive displacement blowers. The electrical system design included addition of a switchboard lineup to the power distribution system. The new switchboard supplies power to new and existing low voltage motor control equipment to support all the new process facilities, with provisions for future power distribution allocated in future phases of the improvements project. Cost: \$12.3 million (fee) (100% design and construction of Phase 1, centrifuge dewatering only). Specific Role: Electrical Engineer.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Southwest WWTP High Level Disinfection/Reuse Facilities Upgrades, City of Sunrise, FL	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm b. Major process facilities included new headworks, lift station, deep-bed denitrification filters, sodium hypochlorite disinfection, and chlorine contact basins. The electrical system design included a complete renovation of the power distribution system. A single utility supply provides power to a new low voltage switchgear assembly. A new 1500kW, 480VAC standby generator was also designed with automatic transfer to/from standby power to provide power during utility outages. The new switchgear supplies power to low voltage motor control equipment strategically located throughout the plant to support all the new process facilities. Cost: \$11.05 million (fee) Specific Role: Electrical Engineer.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
East Central Regional WRF Biosolids Improvements West Palm Beach, FL	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm c. Mr. Pickett was Electrical Engineer responsible for the electrical design of the biosolids improvements. The project included upgrade of an existing gravity belt thickening facility, new waste activated sludge storage with PD blowers, installation of six new anaerobic digesters and associated equipment, five new dewatering centrifuges, new septage and FOG receiving stations, and conversion of an existing aerobic digester to an aeration basin. The electrical system design included modifications to the main power distribution system. New 5kV class switchgear was provided to supply the digester, dewatering, and thickening facilities. Cost: \$96.8 million (construction) Specific Role: Electrical Engineer.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Springtree WTP Electrical System Improvements City of Sunrise, FL	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm d. Hazen is in the process of evaluating the existing electrical system for the entire 20MGD WTP and completely replacing all major portions of the electrical system. Details include complete replacement of the older 4160V distribution and 480V system. New 5kV switchgear and controls will be provided to modify two (2) existing 2000kW generators to allow them to parallel with each other and, in turn, parallel with FPL to perform a soft transition to/from generators to eliminate the multiple power outages created when operating generators for maintenance purposes. Mr. Pickett serves as the Project Manager and Engineer-of Record for the electrical discipline. Cost: \$5.68 million (fee) Specific Role: Project Manager, Engineer-of Record for the electrical discipline.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Thomas P. Smith WRF Improvements City of Tallahassee, FL	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm e. Major process facilities include new headworks, primary clarifiers, activated sludge upgrades for AWT nutrient removal, denitrification filters, anaerobic digestion, centrifuge dewatering, and thermal sludge drying. The electrical design included a complete renovation of the power distribution system. Dual utility supplies provide power to a new 15kV Class switchgear assembly with provisions for future standby generators. The new switchgear supplies power to low voltage power distribution and motor control equipment to support all the new process facilities. The project design team used AutoCAD 3D for new structures and for modeling the yard piping and electrical ductbanks. All motor control centers were designed as Intelligent MCCs utilizing Devicenet for communication with the PLC. Wireless network points were installed throughout the plant for utilization of wireless pen tablets for process control. Mr. Pickett was also involved in the construction administration of the project. Cost: \$180 million (fee) Specific Role: Electrical Engineer.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME David Atkinson, Jr., PE Associate Vice President	13. ROLE IN THIS CONTRACT QA/QC Technical Advisory	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 21</td> <td style="width: 50%;">b. WITH CURRENT FIRM 21</td> </tr> </table>		a. TOTAL 21	b. WITH CURRENT FIRM 21
a. TOTAL 21	b. WITH CURRENT FIRM 21				
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Raleigh, North Carolina					
16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE, Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / NC – Electrical Engineering			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Atkinson specializes in the design of electrical power distribution systems for water and wastewater treatment and pumping facilities, and evaluation of existing electrical systems at operating facilities. His experience includes low and medium voltage power distribution, lighting, motor controls, fire alarm systems, access control systems, closed-circuit television systems, and variable frequency drives. He is proficient in computer analysis and design of electrical power systems using SKM Power Tools.					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a.	Noman Cole Pollution Control Plant (NCPCP) UV Disinfection County of Fairfax, VA	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project included the addition of two dual medium voltage services, the disinfection facility, chemical storage and handling facilities, new reuse water pumping, and a new backwash pumping station. Also, the demolition of various plant facilities and the associated relocation of plant services were part of this project. Both design and construction phase services were performed, including coordination with the electrical utility. Arc flash mitigation was a key component of this design. Cost: \$2.4 million (total fee) Specific Role: QA/QC		
b.	Broad Run Water Reclamation Facility Expansion Project Loudoun Water, VA	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Hazen has developed a visionary long-term (50-year) master plan for the expansion of the Broad Run Water Reclamation Facility (BRWRF) and is currently working on the construction of the facility expansion based on the master plan. The design includes expansion of solid and liquid processes, including influent pumping and equalization. Design effort included detailed review and analysis of existing processes, detailed hydraulic modeling of the liquids treatment process, and evaluation of existing facilities to identify potential for optimizing existing systems to achieve improvement goals. Status: Project is currently ongoing. Cost: \$94 million (construction) Specific Role: Lead Electrical Engineer		
c.	Winchester Raw Water Pump Station Generator Replacement City of Winchester, VA	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Hazen supported the City with a wide range of task orders under an annual services contract, including distribution system improvements, water treatment design and optimization, wastewater conveyance, and dam rehabilitation. Task orders include Distribution System Hydraulic Modeling, Strothers Lane Ground Storage Tank, Jefferson Street Pump Station Replacement, Lead and Copper Rule Revisions Assistance, Wastewater Pumping Stations Rehabilitation and Replacement, and Raw Water Intake Dam Rehabilitation. Under the Raw Water Pump Station Generator Replacement project, a 1.0-MW generator was replaced along with a complete electrical system rehabilitation. Challenges included working within a small existing building footprint and upgrading the HVAC to mitigate the potential impacts of hazardous gases. Cost: \$925,000 (construction) Specific Role: Lead Electrical Engineer		
d.	Central Operations Facility Electrical Upgrade DC Water, Washington, DC	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project work included the preliminary design, report, cost estimate, and final design for the construction and changes to the Central Operations Facility at DC Water's WWTP. Project included the change-out of aging medium voltage electrical equipment, upgrading the electrical room to current safety standards, and the addition of new electrical distribution equipment to serve the multi-story facility. Tasks within this project included addition of a new unit substation that comprised of double-ended switchgear with dry-type transformers, 480v Distribution as well as all general 208v Distribution (low voltage), lightning protection/grounding system, room lighting, and coordination with facility staff to ensure reliable operations continued during construction. All lighting calculations were done using software (AGI and Visual). Cost: \$8.2 million Specific Role: QA/QC		
e.	Blue Plains AWTP Nitrification Facilities Upgrade and Switchgear Replacement – Washington, DC	PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Hazen and Sawyer provided design services to replace and consolidate the switchgear, transformers, and switchboards serving the Nitrification Reactors and the Nitrification Sedimentation Basins at the 370-mgd facility into two new Unit Substations (USS). The Structural, Architectural and HVAC modifications required to accommodate the new switchgear and MCCs, as well Instrumentation and Controls, were also completed in this project. Cost: \$17,000,000 Specific Role: Electrical Design		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jared Stanbridge, PE Senior Associate	13. ROLE IN THIS CONTRACT QA/QC Technical Advisory	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 14</td> <td style="width: 50%;">b. WITH CURRENT FIRM 5</td> </tr> </table>		a. TOTAL 14	b. WITH CURRENT FIRM 5
a. TOTAL 14	b. WITH CURRENT FIRM 5				
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Atlanta, Georgia					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Electrical Engineering			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Stanbridge serves as a leader in Hazen's I&C group. He is an expert in instrumentation and control system design for water and wastewater treatment and conveyance facilities. His experience includes design, startup and commissioning for a wide range of projects from small single loop projects to large plant capacity increase projects. Professional Organizations: International Society of Automation					



19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a.	Winchester WTF, Indiana-American Water, Winchester, IN	PROFESSIONAL SERVICES 2023 - 2025	CONSTRUCTION (If applicable) 2025
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Supporting the instrumentation and controls design for a new 1.25MGD facility on an existing American Water site. Project includes well pumps, aeration/detention, pressure filtration, distributive pumping and chemical feed systems for sodium hypochlorite, hydrofluorosilicic acid and phosphoric acid. Cost: 1.47 M (fee) \$24M (construction) Specific Role: Lead I&C Field Engineer	
b.	Jonesboro and Noah's Ark Pump Station Improvements, Clayton County Water Authority, GA	PROFESSIONAL SERVICES 2021 - Present	CONSTRUCTION (If applicable) Currently under construction; anticipated completion - 2027
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Support for the instrumentation and controls design for an improvements project that included new pumps, generators and pump station control system for two locations. Project included a rebid effort to reduce the scope of the project to only one location after design completion. Cost: \$1.17 M (fee – construction only) Specific Role: Lead I&C Field Engineer	
c.	James E. Quarles Plant 2 SCADA Replacement, Cobb County-Marietta Water Authority, GA	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2024
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Supporting the instrumentation and controls construction effort for a plant-wide SCADA conversion from an existing General Electric iFix HMI system with Allen-Bradley PLCs to an Inductive Automation Ignition HMI system replacing the existing PLCs with the latest Allen Bradley PLCs and upgrading existing MCCs to smart MCCs with ethernet connectivity. Project includes all plant areas from raw water to high service. Cost: \$29 million (construction) Specific Role: Lead I&C Engineer	
d.	FWHWRC Conversion to PLC-Based SCADA System Project, Gwinnett County Department of Water Resources, GA	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2023
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Managed the construction effort of a plant-wide SCADA conversion from a Foxboro DCS to an Allen Bradley based SCADA. Project included all plant areas from influent to effluent and solids handling. Cost: \$41 million (construction) Specific Role: Construction Project Manager/Lead I&C Field Engineer	
e.	Utoy Creek Instrumentation and Control Reliability Restoration Project, City of Atlanta Department of Water Management, GA	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2023
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Managed the construction effort of a plant-wide SCADA migration from a Foxboro Series 100 DCS with FoxView HMI graphics to a Foxboro Series 200 DCS with ControlHMI graphics. Cost: \$7.3 million (construction) Specific Role: Construction Project Manager/Lead I&C Field Engineer	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jose Cano, PE Senior Principal Engineer	13. ROLE IN THIS CONTRACT Electrical Engineering & Electronics; Construction Management / Inspections; Operations / Startup	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 8</td> <td style="width: 50%;">b. WITH CURRENT FIRM 3</td> </tr> </table>	a. TOTAL 8	b. WITH CURRENT FIRM 3
a. TOTAL 8	b. WITH CURRENT FIRM 3			
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Coral Gables, Florida				
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Electrical Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Cano specializes in the design of electrical power distribution systems for water and wastewater treatment and pumping facilities. He is also experienced in the evaluation of existing electrical systems at operational facilities. His expertise includes lighting design, fire alarm systems, building automation systems, and grounding and lightning protection. Mr. Cano's experience also includes creating LDARS and PDARS and preparing CADD plans using MicroStation 3D software. Professional Organizations: American Water Works Association; Florida Water Environment Association; Cuban American Association of Civil Engineers.				

Hazen

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
a.	North District WWTP Electrical Distribution Building No. 3 Design, Miami-Dade Water and Sewer Department, Miami-Dade County, FL	<table style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES Ongoing</td> <td style="width: 50%;">CONSTRUCTION (If applicable) Ongoing</td> </tr> </table>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Cano is responsible for the design of the new Electrical Distribution Building No. 3, which will replace the existing Electrical Distribution Building No. 1 at the North District WWTP. Design includes new medium and low voltage arc resistant switchgears with main-tie-tie-main configurations, nine medium voltage generators, medium voltage transformers and low voltage motor control centers, and other low voltage distribution equipment. Status: The project is estimated for completion in 2028. Cost: \$10.5 million (design and CMS est. fee); \$180 million (est. construction) Specific Role: Electrical Engineer				
b.	S-8 Upgrades, South Florida Water Management District (SFWMD), City of West Palm Beach, FL	<table style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES Ongoing</td> <td style="width: 50%;">CONSTRUCTION (If applicable) N/A</td> </tr> </table>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Cano is responsible for the design of all electrical improvements at the SFWMD's existing pump station. Upgrades include replacement of two existing generators and associated power distribution equipment, power and controls for a new fuel farm facility and new lift station, new layout of site and security lighting, and addition of lightning protection system to the building and other outdoor facilities. Status: Construction is estimated for completion in 38 months in July of 2027. Cost: \$1,460,000 (est. fee) Specific Role: Electrical Engineer				
c.	New WTP Feasibility Analysis, Design, and Test/Production Well, City of West Melbourne, FL	<table style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES 2022- 2025</td> <td style="width: 50%;">CONSTRUCTION (If applicable) Currently under construction; anticipated completion 2026</td> </tr> </table>	PROFESSIONAL SERVICES 2022- 2025	CONSTRUCTION (If applicable) Currently under construction; anticipated completion 2026
	PROFESSIONAL SERVICES 2022- 2025	CONSTRUCTION (If applicable) Currently under construction; anticipated completion 2026		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Hazen was selected to conduct piloting, preliminary design, final design and bidding services for a new 5-mgd drinking water plant utilizing membrane treatment. With the design of the WTP currently under way, Hazen was also tasked with an expedited design of the four water supply wells to serve the plant. The project included feasibility analysis to determine the feasibility of developing a new WTP and related infrastructure in lieu of obtaining potable water from an outside entity. Hazen designed and implemented a detailed testing plan to identify aquifer characteristics; and detailed testing to assess production capacity with depth, as well as consumptive use permitting. Status: Recommendations for additional production wells include 30 feet of surficial casing, additional casing near sewer lines, a final casing depth of 320 feet, and a 24-inch diameter for maximum surface area with an estimated completion date of 2026. Cost: \$350,000 (est. fee for wells); \$1.9 million (est. fee for WTP design); 156M (construction) Specific Role: Electrical Engineer				
d.	Springtree Water Treatment Plant Electrical Improvements, City of Sunrise, FL	<table style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES Ongoing</td> <td style="width: 50%;">CONSTRUCTION (If applicable) Ongoing</td> </tr> </table>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Cano is responsible for the construction phase services associated with the project. This includes reviewing electrical-related shop drawings and requests for information, construction inspections, progress review meetings, and change management. The project consists of replacement of the plant's 5-kV electrical distribution system and replacement/modifications to the paralleling generator equipment. Status: Completion of construction is estimated for 2026. Cost: \$500,000 (fee) Specific Role: Electrical Engineer				
e.	Sawgrass Wastewater Treatment Plant – DAF Thickening Process Improvements Design and Bidding Services, City of Sunrise, FL	<table style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES 2023</td> <td style="width: 50%;">CONSTRUCTION (If applicable) N/A</td> </tr> </table>	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Cano is responsible for the design of all electrical improvements at the City's WWTP's existing dissolved air flotation (DAF) thickening building. Improvements include new VFDs for existing pumps, control panels for DAF system, and lighting system for the building. Status: Construction is estimated for completion in 2025 (est.). Cost: \$284,000 (est. fee) Specific Role: Electrical Engineer				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME John Burke, PE Senior Associate	13. ROLE IN THIS CONTRACT Electrical Engineering & Electronics	14. YEARS EXPERIENCE a. TOTAL 59	b. WITH CURRENT FIRM 21
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15. FIRM NAME AND LOCATION (City and State)
Hazen and Sawyer, Jacksonville, Florida

Hazen

16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Electrical Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Burke has 59 years of experience in the planning, design, and project management of power, control and instrumentation systems associated with new and upgraded water and wastewater facilities. His capabilities range from concept through final design and extend to construction management and power systems analysis. Mr. Burke has provided electrical design quality assurance/quality control review for many Hazen projects including the award-winning Broward County Water Treatment Plant 3C Potable Water Ground Storage Tank and Pump Station project, which included a 4.7-mgd high service pump station, 1.5-mg prestressed concrete tank, sodium hypochlorite and ammonia chemical disinfection facilities, and standby power generator. **Professional Organizations:** National Society of Professional Engineers, Florida Engineering Society.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
General Wastewater and Water Engineering Services Broward County, FL		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		☒ Check if project performed with current firm	
a. Hazen has provided general professional consulting services to Broward County Water and Wastewater Services under the 2002 and 2008 General Consulting agreements in the following areas: water and wastewater treatment plants, water collection and wastewater distribution, hydraulic modeling, pumping stations, water wells and effluent disposal wells, water reclamation, ocean science and marine engineering, financial studies, and regulatory assistance. Hazen completed over 100 projects under the two agreements. Status: Hazen is currently providing services on two active wastewater projects (under the 2008 general consulting contract). Cost: \$17.4 million (est. fee-to-date). Specific Role: Electrical Engineer-of-Record.			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
High Service Pump Replacement, City of Hallandale Beach, FL		PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		☒ Check if project performed with current firm	
b. Hazen was responsible for replacement of all high service pumps at the City's Water Treatment Plant. Hazen provided detailed design, permitting, bidding, and services during construction. The design included four new horizontal split-case pumps designed for 4,500 gpm at 175 feet total dynamic head. With three pumps operating, the pump station capacity will be able to meet the peak hour demand through the year 2045 and beyond. The pumps will be equipped with totally-enclosed fan-cooled motors and operated with variable frequency drives. Hazen located the proposed pump station electrical equipment in an unutilized FPL room, which will significantly reduce the complexity of the construction sequencing resulting in a \$200,000 cost-savings. Cost: \$4.68 million. Specific Role: Electrical Engineer-of-Record.			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Cocoplum 1 Pump Station and Force Main Improvements Coral Gables, FL		PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		☒ Check if project performed with current firm	
c. Hazen performed mechanical, electrical and structural upgrades to the Cocoplum 1 Pump Station to accommodate peak flows and increase system reliability and integrity. The City owns and operates a wastewater collection and transmission system comprised of 340,000 LF of gravity main, 35 pump stations, and approximately 100,300 LF of force main. Cost: \$2.25 million. Specific Role: Electrical Engineer.			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Fairfax Water Treatment Plant High Service Pumps Rehabilitation JEA, Jacksonville, FL		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		☒ Check if project performed with current firm	
d. Work included preparation of the detailed construction contract documents for power, control and instrumentation requirements. Project included new 1,600-amp, 480-volt electrical service and motor control center with variable frequency drive (VFD) for three new 250-hp horizontal split case pumps. VFDs and MCC power monitors were connected by copper Profibus to the existing plant control panel. Distribution feeders from the MCC were provided for vacuum priming system, air conditioning system, distribution panelboards, hypochlorite storage and reservoir exhaust fans. Building lighting and power receptacles were replaced. Instrumentation included new venturi flow meter, new pressure transmitter and relocation of existing chlorine/PH analyzer. Electrical design included parallel services to allow pump replacement with minimum plant outages. Cost: \$350,000 (fee); \$1.5 million (construction). Specific Role: Electrical Engineer of Record			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
North Regional Wastewater Treatment Plant (NRWWTP) Capacity Improvements – BP A – Booster Pumps, Broward County, FL		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		☒ Check if project performed with current firm	
e. Mr. Burke served as Electrical Engineer-of-Record for the addition of 300-hp booster pumps for eight deep injection wells. The project included expansion of the existing main 4,160-volt switchgear, new 4,160-volt primary loop feeders, four new electrical buildings with stepdown pad mounted transformers, motor control centers, and VFD to serve the booster pumps. Cost: \$10.6 million. Specific Role: Electrical Engineer-of-Record.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Keff Kurella, PE Senior Associate	13. ROLE IN THIS CONTRACT Electrical Engineering & Electronics, Instrumentation & Control	14. YEARS EXPERIENCE a. TOTAL 28 b. WITH CURRENT FIRM <1
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15. FIRM NAME AND LOCATION (City and State)
Hazen and Sawyer, Tampa, Florida

Hazen

16. EDUCATION (DEGREE AND SPECIALIZATION)
BS, Chemical Engineering

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
PE / FL

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Kurella has 28 years of experience in the design, specification, and construction of electrical, instrumentation and controls systems. Project experience includes municipal, industrial, and commercial clients. Responsibilities include project management, front-end engineering, detailed design, cost estimation, preparation of construction documents and construction administration. Design experience includes power distribution (low and medium voltage), generation, lighting, control systems (PLC and distributed), hazardous area classification, fire alarm, lightning protection, grounding, voice/data communications and instrumentation. Other capabilities include performing power system analysis studies such as short circuit, protective device coordination, and arc flash hazards.
Professional Organizations: International Society of Automation.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	One Water Balm Road Super Pump Station Hillsborough County, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Keff serves as Lead Electrical Engineer on a progressive design build of a super pump station. The station is designed with a flow capacity of 56 mgd. It can be expanded to 80.5 mgd to accommodate projected buildout flows. It features two self-cleaning wet wells constructed concurrently, each capable of managing half of the flow for enhanced operational flexibility. The pump station will utilize ten (10) pumps, each equipped with a variable frequency drive (VFD), with eight (8) designated for duty, two (2) standby, and space reserved for two (2) future pumps. Cost: \$45 million (estimate) Specific Role: Lead Electrical Engineer		
	One Water Advanced Wastewater Treatment Facility (AWWTF) Hillsborough County, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Keff serves as Lead Electrical Engineer on a progressive design build of a green field wastewater treatment facility with an initial flow capacity of 30 mgd and a final flow capacity of 45 mgd. The facility includes preliminary treatment (flow monitoring, screening, grit removal), flow equalization, secondary treatment (biological treatment basins, clarifiers), tertiary treatment (disk filters), high level disinfection, effluent storage/pumping, reject storage/pumping, solids handling, medium voltage distribution, emergency generators, operations building and a maintenance building. Cost: \$500 million (estimate) Specific Role: Lead Electrical Engineer		
	Carlton EDR Water Treatment Facility Sarasota County, FL	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2023
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Mr. Keff served as Electrical Engineer-of-Record for the power distribution and controls system design to upgrade an existing 12-mgd EDR groundwater facility. Cost: \$52 million. Specific Role: Engineer-of-Record.		
	Wiley Nash Water Reclamation Facility Expansion & Upgrades City of DeLand, FL	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) Ongoing
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Mr. Keff served as Engineer-of-Record for the design of the power distribution, instrumentation and controls upgrades for a plant expansion project. This included a new influent pump station, grit handling, oxidation ditches, clarifiers and a UV treatment system. Cost: \$83 million. Specific Role: Engineer-of-Record.		
	Design Build Lockhart Water Treatment Plant Expansion Hernando County, FL	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2024
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Mr. Keff served as Engineer-of-Record for the design of the power distribution, instrumentation and controls upgrades for a well water plant expansion project. This included new well pump upgrades, a new high service pump station, chemical treatment and a ground storage tank. Cost: \$10 million. Specific Role: Engineer-of-Record.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME J. Patrick Bowles, PE Senior Associate	13. ROLE IN THIS CONTRACT Electrical Engineering & Electronics	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 10</td> <td style="width: 50%;">b. WITH CURRENT FIRM 10</td> </tr> </table>	a. TOTAL 10	b. WITH CURRENT FIRM 10
a. TOTAL 10	b. WITH CURRENT FIRM 10			
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Raleigh, North Carolina				
16. EDUCATION (DEGREE AND SPECIALIZATION) MSEE, Electrical Engineering BSEE, Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Electrical Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Bowles specializes in the design of electrical power distribution systems for water and wastewater treatment facilities, the evaluation of existing electrical systems at operating facilities, biogas utilization evaluations, and energy evaluations. His experience includes low and medium voltage power distribution, lighting, motor controls, fire alarm systems, building automation systems, access control systems, and variable frequency drives.				



19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Little Road WTP Pumping Station Upgrades Pasco County, FL	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm a. Electrical design of a replacement pump station. The design includes a completely new electrical distribution system to supply five new pumps, and associated instrumentation. The electrical design includes new motor control centers to supply the new pumps, variable frequency drives, and design of a new pump station, including offices, conference room, locker rooms. Cost: \$8.4 million. Specific Role: Electrical Engineer.		
Water Treatment Plant Phase 1 Improvements Greenville, NC	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 2024
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm b. Electrical design of a water treatment plant expansion from 16 to 32 mgd. The design included four new filters, a new clearwell pump station, a new rapid mix and super pulsator facility, a new chemical storage facility, and associated instrumentation. The design included modifications to the existing medium voltage switchgear and the addition of new switchboards and motor control centers. Due to site constraints, special consideration was given to future electrical expansion possibilities. Cost: \$45 million. Specific Role: Electrical Engineer.		
High Service Pump Station Replacement Hallandale Beach, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm c. Designed the electrical distribution for the replacement of high service pumps. The design included new high service pumps, VFDs, a new switchboard, and associated instrumentation. A new 2000A main-tie-main switchboard supplied the VFDs and associated instrumentation. Cost: \$4.68 million (construction). Specific Role: Electrical Engineer.		
City of Miramar WW Reclamation Facility Reclaimed Water System Expansion Phase 1, Miramar, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm d. Designed the electrical distribution for the expansion project. The design included replacement air compressors, filter feed pumps, a high service pump, new chlorine contact tank, VFDs, and associated instrumentation. Cost: \$5.5 million (fee). Specific Role: Electrical Engineer.		
Monte Vista Water District Plant 30 Wellhead Treatment Monte Vista Water District, Montclair, CA	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2023
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm e. Electrical design of a water treatment expansion. The design included a new ion exchange system, granular activated carbon system, chemical storage facility, brine and water softener system, water recovery system, and associated instrumentation. The design included supplying new process equipment from an existing switchboard and the addition of a portable generator connection for the entire well site. Cost: \$13.5 million. Specific Role: Electrical Engineer.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Kyle Ringger, PE	13. ROLE IN THIS CONTRACT Instrumentation & Control; Construction Management/Inspections; Operations/Startup	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 11</td> <td style="width: 50%;">b. WITH CURRENT FIRM 9</td> </tr> </table>	a. TOTAL 11	b. WITH CURRENT FIRM 9
a. TOTAL 11	b. WITH CURRENT FIRM 9			
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Hollywood, Florida				
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering Sciences BS, Earth and Environmental Sciences		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental Engineer		

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Ringger has 11 years of experience in design, construction oversight, inspection, and startup of instrumentation and controls (I&C) for water and wastewater treatment and pumping facilities. Mr. Ringger excels not only in I&C Design and AutoCAD Plant3D software, but also in detailed functional controls implementations for a multitude of water and wastewater I&C process areas. His additional experience includes providing construction oversight of deep injection wells and monitoring wells, as well as GIS data preparation, hydrologic forecast modeling, and water demand forecasting and modeling.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a.	City of Pembroke Pines Aeration Upgrades Design Pembroke Pines, FL	PROFESSIONAL SERVICES Ongoing (Started 2025)	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Ringger is responsible for designing Instrumentation and Control P&IDs and System Architecture diagrams for the installation of new multistage centrifugal blowers at the East and West Blower Buildings, new process airflow control assemblies to Plants 1 through 5, new East Surge Tank and Aerated Sludge Holding Tank, new dedicated positive displacement blowers at the West Surge Tank, along with automating the aeration system with dissolved oxygen (DO) control system and adding various field instruments and accompanying signals to new and existing PLCs to integrate into the existing SCADA System. Status: PDR/30% Design Deliverable Cost: \$541,291 (fee, design, bidding) Specific Role: I&C Engineer/Designer		
b.	Water and Wastewater Telemetry Reliability Upgrade Boca Raton, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Ringger was responsible for supervising and witnessing the replacement and improvement of core telemetry system hardware and software components. These components included replacement of all RTUs with Allen-Bradley MicroLogix 1400 PLCs and cellular modems, furnishment of new enclosures, refurbished enclosures, and/or new enclosure back plates; updating the communications protocol from Modbus serial to DNP3 over ethernet; configuration of the system to optimize performance within the parameters of the City's selected M2M cellular data plan; installation of two (2) 928/952 MHz base station radios and omnidirectional antennas at the Complex's elevated backwash tanks; equipping of select sites with both cellular and 928/952 MHz radios; among other associated telemetry system upgrades. Status: Complete Cost: \$310,370 (fee, design, bidding); \$4.38 million (construction) Specific Role: I&C Engineer (Construction Management and Inspections / Operations and Startup)		
c.	Southwest WWTP Injection Well and Surface Facilities Design and Bidding Services, Sunrise, FL	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Ringger was responsible for designing Instrumentation and Control P&IDs and the System Architecture Diagrams for the installation of the FDEP UIC Class I injection well (IW) system, consisting of one injection well, a Floridan aquifer dual-zone monitoring well, an associated IWPS, FM, and surface facilities. Due to the long-term uncertainty of the disposal capacity for the RIB/Percolation Pond system as well as the costs associated with maintaining the percolation ponds, the City has identified the need for an alternative effluent disposal system and has elected to proceed with the design and construction of an FDEP UIC Class I injection well (IW) system, consisting of one injection well, a Floridan aquifer dual-zone monitoring well, an associated IWPS, FM and surface facilities. Status: Out for Bid Cost: \$4,463,000 Specific Role: Engineer of Record / I&C Engineer/Designer		
d.	East Central Regional Water Reclamation Facility Biosolids Improvements Project, West Palm Beach, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Ringger was responsible for witnessing and inspecting the implementation of control logic and functional descriptions for various process areas for the construction of new biosolids processing facilities at the 70-mgd ECRWRF. These process areas include Conversion of Decant Tanks to Aerated WAS Storage and Centrate Equalization; Upgrades to Gravity Belt Thickening Facility; New Temperature-Phased Anaerobic Digestion Facilities; New Centrifuge Dewatering Facilities; Conversion of Aerobic Digester to Aeration Basin No. 1; New Fats/Oils/Greases/Septage (FOGS) Receiving Facilities; and New Biosolids Odor Control Facilities. Additionally, Mr. Ringger was responsible for construction shop drawing and RFI review. Status: Complete Cost: \$96.8 million (construction) Specific Role: I&C Engineer (Construction Management and Inspections / Operations and Startup)		
e.	North Regional Wastewater Treatment Plant Fine Bubble Aeration Basin Conversion, Broward County, FL	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2025
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Ringger was responsible for witnessing and inspecting the implementation of control logic and functional descriptions for the conversions of Modules A, B, and D to fine bubble aeration, along with construction shop drawing and RFI reviews. Components of this aeration conversion include: Blower Operating Modes; Blower Remote (SCADA) Control; Blower Startup/Shutdown Sequencing; Blower Selection; Blow-off Valve Control, Air Bump Sequencing, Manual Suspend/Freeze Mode, Aeration Diffuser Purge Control, Aeration Basin Minimum Air Flow Control, Aeration Basin "Not In Service" Mode, Basin Air Flow Control Valve Operating Limits, Basin Air Flow Valve Position Control Mode, Basin Air Flow Set-point Control Mode, and Aeration Basin D.O. Control Modes (Air Flow Demand and Header Pressure Control). Status: Complete Cost: \$26,895,847 Specific Role: I&C Engineer (Construction Management and Inspections / Operations and Startup)		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Alfredo Jimenez Senior Principal Scientist	13. ROLE IN THIS CONTRACT Instrumentation & Control; Operations/Startup	14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION (City and State)

Hazen and Sawyer, Hollywood, Florida

Hazen

16. EDUCATION (DEGREE AND SPECIALIZATION)

BSEE, Electrical Engineering

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Jimenez brings 15 years of experience providing automation and control services for treatment facilities within both the public and private sectors. He is an expert in PLC programming and shop drawing reviews with extensive knowledge of instrumentation and control procedures. Mr. Jimenez's expertise includes instrumentation and control, PLC and HMI programming, SCADA system design, control panel design, telemetry, and networks and start-up of new WTP facilities. **Professional Organizations:** International Society of Automation; Underwriting Laboratories.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	City of Deerfield Beach West Water Treatment Plant Chemical Line Replacement, Deerfield Beach, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Jimenez serves as Instrumentation and Controls Engineer for this project that included design of a new chemical system for the City. The design includes a modern control strategy for the chemical system, modifications to the existing network as well as SCADA system improvements. Mr. Jimenez was responsible for designing all P&IDs processes, controls descriptions, and specifications. Information submitted by regulatory agencies. Cost: \$500,000 (fee); \$1.7 million (construction, est.). Status: Design is estimated for completion by July 2024, and permitting by October 2024. The City does not intend to bid until 2025. Specific Role: Instrumentation and Controls Engineer.		
	City of Coral Springs Water Treatment Supply Wells Rehabilitation, Coral Springs, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2018
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Mr. Jimenez provided integration of the newly rehabilitated supply wells with the existing SCADA system. This project required a multi-protocol converter to be able to send data via Modbus RTU through the existing telemetry infrastructure, and HMI graphics modifications to incorporate historical data, reports, and security features. Another key feature of the project included the configuration and integration of the pump's VFD over the network. Specific Role: Instrumentation and Controls Engineer.		
	Atlantic Sapphire Salmon Farm Phase 1, Homestead, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Mr. Jimenez was responsible for implementing control strategies for supply and injection wells, cooling water wells, saltwater filtration system, odor control, and chemical dosing. These included: DLR Network configuration, which provides means to detect, manage, and recover from single faults in a ring-based network; VFD communication table configurations to provide pump controls over EtherNet/IP™ protocol; and a network-based instrumentation and control system, including flow meters, ultrasonic level transmitters, and salinity analyzers. Status: Completion is estimated for 2028. Cost: \$13 million (design and CMS fee); \$350 million (est. construction). Specific Role: Lead Instrumentation and Controls Engineer.		
d.	City of Hallandale Beach High-Service Pump Station Replacement, Hallandale Beach, FL	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm This project required the implementation of a modern control strategy for the pump station. The project also involved the design of a new PLC control panel with a state-of-the-art monitoring system; integration of third-party equipment (pressure transmitters, pressure switches, flow meters, VFDs and analytical instrumentation) with the existing SCADA system; development of new graphics for the pump station local HMI; deployment of modified and new graphics to the existing SCADA system; and modification of the existing PLC logic to provide a comprehensive control strategy. Cost: \$4.68 million (construction). Specific Role: Lead Instrumentation and Controls Engineer.		
	Town of Manalapan Water Treatment Plant, Manalapan, FL	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Mr. Jimenez implemented plant-wide upgrades involving booster station telemetry and instrumentation integration. The project included PLC control strategy, local HMI, and SCADA design as well as redesign of the telemetry system to optimize communications with remote sites. He also integrated remote sites with the existing SCADA system and upgraded the booster station controls and local HMI. Specific Role: Project Engineer.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Laura Garcia Gonzalez, EI Assistant Engineer II	13. ROLE IN THIS CONTRACT Instrumentation & Control	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 6</td> <td style="width: 50%;">b. WITH CURRENT FIRM 2</td> </tr> </table>		a. TOTAL 6	b. WITH CURRENT FIRM 2
a. TOTAL 6	b. WITH CURRENT FIRM 2				
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Hollywood, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE – Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Florida - Engineer Intern (EI), Electrical and Computer			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Garcia Gonzalez is an Instrumentation & Controls Engineer with a background in PLC and HMI programming, SCADA integration, and industrial process automation. She has expertise in the design and development of P&IDs, technical specifications, and commissioning activities for industrial processes, including pharmaceutical, water, and wastewater applications.					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Hollywood WWTP – Temporary Sodium Hypochlorite Feed System, Hollywood, FL	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) TBD
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Design of a temporary sodium hypochlorite feed system for the City of Hollywood Wastewater Treatment Plant. The system included six bulk storage tanks and eight metering pump skids to distribute sodium hypochlorite throughout the facility as required. The project scope covered development of drawings and specifications. Specific Role: Instrumentation and Controls Engineer		
	City of Tampa Wastewater Treatment Plant – Maple System OIT Standards Development, Tampa, FL	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Development of standard templates for the City of Tampa's wastewater treatment plant Operator Interface Terminals (OIT) using the Maple System platform. The standards included overview screens, process displays, alarm screens, faceplates, navigation structure, and smart object libraries. The project improved operator consistency and streamlined future OIT development across the City's facilities. Specific Role: Instrumentation and Controls Engineer		
	West Melbourne Greenfield RO Water Treatment Plant City of West Melbourne, FL	PROFESSIONAL SERVICES 2023-2024	CONSTRUCTION (If applicable) Ongoing
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Greenfield design of a new municipal water treatment plant including pretreatment cartridge filters, four reverse osmosis (RO) systems, degasifiers, odor control system, clearwell, transfer pumps, ground storage tank, high service pump station, and standby generator. Developed the complete instrumentation and control strategy, plant-wide network architecture, and specifications for redundant Allen-Bradley ControlLogix PLCs with dual redundant switches and a Device Level Ring (DLR) connecting the major process systems. Cost: \$52,484,250 Specific Role: Instrumentation and Controls Engineer		
	Victoria Park Stormwater Pump Station – Fort Lauderdale, FL	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) TBD
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Design of a new stormwater pump station for the City of Fort Lauderdale, including two submersible pumps, a control panel with provisions for standby generator connection, and full instrumentation and control integration. The project was developed in accordance with the City of Fort Lauderdale's established design standards and required extensive coordination with City staff throughout the design process. Specific Role: Instrumentation and Controls Engineer		
	Pharmaceutical Cleanroom Access Control and Interlock System – Havana, Cuba	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Designed and implemented an automated access control and interlock system for cleanroom areas in a pharmaceutical facility producing cytostatic serums. The system ensured quality compliance by controlling access, maintaining proper pressure cascades, and interlocking doors. Developed using a Siemens S7-300 PLC and Siemens HMI integrated into a local control panel at the cleanroom entrance. Specific Role: Automation Engineer, PLC/HMI programming		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Anthony Niemiec, Jr., PE, BCEE Associate	13. ROLE IN THIS CONTRACT Permitting/Regulatory Compliance; Bidding Services; Construction Management/Inspections	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 10</td> <td style="width: 50%;">b. WITH CURRENT FIRM 9</td> </tr> </table>	a. TOTAL 10	b. WITH CURRENT FIRM 9
a. TOTAL 10	b. WITH CURRENT FIRM 9			
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Hollywood, Florida				
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL– Environmental Engineering Board Certified Environmental Engineer (BCEE)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Niemiec has served as project manager, construction manager, and project engineer on a variety of water and wastewater projects including new facilities, rehabilitation, and upgrades. His expertise includes planning, design, construction services, and applied research. Mr. Niemiec served as the Project Manager on several City of Sunrise projects, including the LS 299 Wastewater Transmission System Hydraulic Analysis, Evaluation of the Disposal Capacity at Southwest WWTP, and Wastewater Transmission System Remote Flow Monitoring Study. Professional Organizations: American Water Works Association, Florida Water Environment Association, American Society of Civil Engineers				



19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a.	Miami Beach Pump Station 28 Miami, FL	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Niemiec is serving as Engineer-of-Record for rehabilitation of the City of Miami Beach Pump Station (PS) 28. PS 28 is the largest wastewater pump station in the City of Miami Beach. The scope of the project includes the replacement of (3) 250 HP dry pit sewage pumps, (3) 350 HP booster pumps and all associated mechanical piping and valving, rehabilitation and hardening of the existing influent screening structure and dry pit below grade pump room, new odor control system, and all new electrical systems and components housed in a new electrical/generator building that meets current flood elevation requirements. The project also includes the design of approximately 1,050 linear feet of 30-inch force main to replacement an existing 40-year old 30-inch force main that has reached the end of its useful life. Cost: \$1,164,000 (fee) \$43.9M (construction). Specific Role: Engineer-of-Record and Construction Manager.		
b.	Seminole Tribe of Florida WWTP Hollywood, FL	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Niemiec served as a Project Engineer for civil, mechanical, and process design of a new 3-mgd wastewater treatment facility. The project includes pretreatment grit removal and screening facilities, odor control, sequence batch reactors, digesters, effluent pump station, and chemical storage and feed facilities. The project also includes aeration blower facilities, RAS and WAS facilities, an on-site lift station, electrical and emergency generator facilities, deep injection well pump station and monitoring well facilities. Cost: \$1.9M (design), \$5.2M (construction). Specific Role: Project Engineer		
c.	Water Storage Tank Replacement Design City of Cooper City, FL	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Niemiec served as Project Engineer for the planning, design, permitting, bidding, and construction of the replacement of the City of Cooper City's 0.5-MG finished water storage tank. As a result of routine annual inspections, the City determined the existing steel storage tank should be replaced with a new 0.5-MG prestressed concrete tank. Cost: \$141,000 (fee), \$947,000 (construction). Specific Role: Project Engineer/ Resident Project Representative		
d.	Wastewater Reclamation Facility Reuse Expansion, Phase I City of Miramar, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Niemiec served as the Resident Project Representative/Deputy Project Manager for construction administration and construction inspections of the reuse system to be expanded from 5 mgd to 7.5 mgd. The expansion included two filter feed pumps, sand filters, improvements to the existing sodium hypochlorite system, a 900,000-gallon prestressed concrete ground storage tank, and a high-service pump. Cost: \$516,000 (fee), \$5.5 million (construction). Specific Role: Resident Project Representative/Deputy Project Manager.		
e.	Regional Wastewater Treatment Plant Diffused Aeration Upgrades, Plantation, FL	PROFESSIONAL SERVICES 2012-2014	CONSTRUCTION (If applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Niemiec served as Project Engineer for the construction of various WWTP upgrades that included conversion of mechanical surface aerated basins to fine bubble diffused aeration. The project included installation of four multistate centrifugal blowers, process air piping, fine bubble membrane disc diffusers, and automatic dissolved oxygen control. It is estimated that this project will result in electrical and chemical cost savings of over \$200,000 per year. Status: Project is ongoing. Cost: \$543,000 (design), \$8.6M (construction) Specific Role: Resident Project Representative		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Robinson, EI Assistant Engineer II	13. ROLE IN THIS CONTRACT Permitting/Regulatory Compliance	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL 3</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM 3</td> </tr> </table>		a. TOTAL 3	b. WITH CURRENT FIRM 3
a. TOTAL 3	b. WITH CURRENT FIRM 3				
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Hollywood, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Florida, Engineer Intern - Civil			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Robinson has experience working on a wide array of projects that include assisting in the planning, design, permitting, bidding/award, and construction management of water and wastewater treatment facilities. These projects included working with multiple permitting/regulatory agencies at the local and state levels across a number of different cities, municipalities, and counties. Professional Organizations: American Water Works Association					

Hazen

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Engineering Services for Water Treatment Plant Improvement City of North Lauderdale, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2028 (est.)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Robinson assists in the design and development of the preliminary design report, detailed design, technical specifications, contract documents, permitting, and bidding. The City owns and operates a series of potable water supply wells and treats the Biscayne Aquifer well water through lime softening. Per- and polyfluoroalkyl substances (PFAS) have recently been detected in the City's wells. The City has elected to proceed with the replacement of their existing treatment process for new nanofiltration membrane skids and its associated processes. Cost: \$7.7 million (est. pre-construction engineering fees) Specific Role: Mechanical Engineer		
	West Water Treatment Plant Chemical Systems Replacement City of Deerfield Beach, FL	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) N/A
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Mr. Robinson assisted in the design and development for the upgrades to chemical systems at the Deerfield Beach West WTP, including nanofiltration and reverse osmosis chemical facilities. Project responsibilities include preparation of preliminary Basis of Design Report, detailed design of associated improvements to chemical systems, preparation of detailed design/bid drawings and technical specifications, and preparation of permitting submittals agencies. Cost: \$500,000 Specific Role: Mechanical Engineer		
	Greenfield Reverse Osmosis Water Treatment Plant and Production Wells, City of West Melbourne, FL	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm The project consisted of the design of a new green field water treatment plant which included the design of reverse osmosis skid, its associated chemical system and other associated processes. Mr. Robinson assisted in the development of detailed design for the civil, mechanical, and chemical systems, as well as technical specifications and contract documents. Cost: \$57 million (Construction Bid); \$5.05 million (Engineering fee). Specific Role: Mechanical Engineer		
	Central WTP Sodium Hypochlorite Chemical Storage Facility City of Plantation, FL	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm The project consists of upgrades to the WTP's sodium hypochlorite storage and feed facilities. The upgrades require the design and use of a temporary sodium hypochlorite system to keep the WTP in service throughout construction. Mr. Robinson assisted in the preparation of the preliminary Basis of Design Report, detailed design of associated improvements to chemical system, preparation of detailed design/bid drawings and technical specifications, and preparation of permitting submittals agencies. Cost: \$3.1 million (fee) Specific Role: Mechanical Engineer		
	Rehabilitation of 48/54 Force Main and Replacement of SE 9th and 10th Avenue to GTL – Design Criteria Package City of Fort Lauderdale, FL	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) Ongoing
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm The project consists of the replacement of and the rehabilitation of 45"/54" influent piping to the Fort Lauderdale George T. Lohmeyer WWTP. This project was a part of a consent order agreed upon by the City of Fort Lauderdale and the FDEP. Mr. Robinson assisted in the design, evaluation of routing, evaluation rehabilitation methods, and the development of the design criteria package and its associated requirements for the replacement/rehabilitation of the influent pipeline. Cost: \$45.9 million Specific Role: Mechanical Engineer		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Sharon Simington	13. ROLE IN THIS CONTRACT Grants / Funding	14. YEARS EXPERIENCE a. TOTAL 21	b. WITH CURRENT FIRM 3
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15. FIRM NAME AND LOCATION (City and State)
Hazen and Sawyer, Tampa, Florida



16. EDUCATION (DEGREE AND SPECIALIZATION)
AA, University of South Florida

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Ms. Simington has extensive experience working with local governments to fund infrastructure projects that better communities. As the Southeast Regional Funding Program Leader for Hazen, she focuses her experience on water, wastewater, and stormwater utilities projects and provides the planning, application, and administration for capital improvement projects. She has many relationships with funding agencies, community members and leaders, and consulting engineers. Sharon helps clients in various industries and disciplines to identify potential funding sources. She leads efforts to secure alternative funding for a variety of clients and projects, acting as the liaison between agency and community, providing a smooth funding experience and cohesive working environment.

Professional Organizations: American Water Works Association

19. RELEVANT PROJECTS

(1)	TITLE AND LOCATION (City and State)	PROFESSIONAL SERVICES	(2) YEAR COMPLETED
	Headworks and In-Plant Pump Station City of Daytona Beach, FL	2023-2024	CONSTRUCTION (If applicable) 2025
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Provided the planning, application and administration for State Revolving Fund loan program. The scope of work includes loan application, agreement coordination, procurement coordination and approval, Davis Bacon compliance, AIS compliance, Fiscal Sustainability Plan, Disbursement Requests, financial reporting, loan budgeting, and closeout. Cost: \$45,978,195 (construction) Specific Role: Southeast Regional Funding Lead; Design-Build		
	Glendale WRF and the Northside WRF City of Lakeland, FL	2023-2024	CONSTRUCTION (If applicable) 2025
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Provided the planning, application and administration for State Revolving Fund loan program. The scope of work includes loan application, agreement coordination, procurement coordination and approval, Davis Bacon compliance, AIS compliance, Fiscal Sustainability Plan, Disbursement Requests, financial reporting, loan budgeting, and closeout. The project includes a new effluent PS and chlorine contact chamber at the Glendale WRF. Cost: \$44,626,900 (construction) Specific Role: Southeast Regional Funding Lead; Design-Build		
	Mosinee Hydroelectric Plant Upgrade, Ahlstrom-Munksjo Mosinee, LLC., Wisconsin	2021	CONSTRUCTION (If applicable) Ongoing
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm This project would upgrade the turbine runner on #1 Hydro to align better with the generator. The facility would request a FERC license modification to increase output from 3,050 KW to 3,500 KW. This project would also improve the automation of the facility. A new governor would be installed on #1 Hydro, and a SCADA package would also be installed allowing the boiler house turbine operators to control hydroelectric generation and the tainter type river water gates remotely. Building security and safety improvements would also be incorporated to enable operators and security to remotely monitor facility and make for a safer and more secure operation for both plant personnel and the public, who have recreational access to the island near the facility. Cost: \$1,693,734 (construction) Specific Role: National Funding Program Leader		
	Sanitary Sewer Collection and Treatment System Town of Pierson, FL	2022	CONSTRUCTION (If applicable) Ongoing
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Provided the design loan Request for Inclusion, loan agreement assistance, disbursement request, funding coordination. The project involves the construction of approximately 21,200 lineal feet of a new collection system, along with the construction of a 100K gpd wastewater facility Cost: \$6,059,250 (construction) Specific Role: National Funding Program Leader		
	Airport Water Reclamation Facility Improvements Phase II Hernando County, FL	2018	CONSTRUCTION (If applicable) 2018
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Provided the loan application, agreement coordination, compliance monitoring and financial reporting, budgeting, closeout. Construction of new head-works structures, clarifiers (95- to 100-inch), additional rapid infiltration basins, oxidation ditches, an anoxic basin, an aerated waste-activated sludge (WAS) holding tank, a chlorine contact chamber, a deep bed sand filtration system, a fixed sludge dewatering building and a RAS/WAS pump station to increase plant disposal capacity to 5 mgd. Cost: \$50,255,000 (construction) Specific Role: Senior Program Administrator		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Elie Andary, PhD, PE Associate Vice President	13. ROLE IN THIS CONTRACT Construction Management/ Inspections	14. YEARS EXPERIENCE <table style="width: 100%;"> <tr> <td style="width: 50%;">a. TOTAL 22</td> <td style="width: 50%;">b. WITH CURRENT FIRM 22</td> </tr> </table>	a. TOTAL 22	b. WITH CURRENT FIRM 22
a. TOTAL 22	b. WITH CURRENT FIRM 22			
15. FIRM NAME AND LOCATION (City and State) Hazen and Sawyer, Hollywood, Florida				
16. EDUCATION (DEGREE AND SPECIALIZATION) PhD and MS, Civil Engineering – Construction Management MSBC, Construction Management BECE, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering		



18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Dr. Andary has over 22 years of experience in construction management and inspections. He has a proven track record managing complex projects and resolving conflicts/issues. Dr. Andary has been involved in developing contingency plans and monitoring construction schedules to ensure progress while maintaining existing plant operations. **Professional Organizations:** American Society of Civil Engineers, American Water Works Association, Construction Management Association of America

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a.	South District Wastewater Treatment Plant High Level Disinfection Project, Miami-Dade Water and Sewer Dept., Miami-Dade County, FL	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Dr. Andary served as a Construction Manager on the High-Level Disinfection (HLD) Project to upgrade the South District WWTP from 225 mgd to 285 mgd. The HLD upgrades consisted of 14 separate contracts, each responsible for construction of a portion of the overall system. The HLD Program was successfully placed in service 15 months ahead of schedule and roughly \$58 million under the \$618 million budget. The overall program integrated a complex construction schedule to plan, define contract coordination/milestone needs, and to ensure phased implementation throughout construction. Dr. Andary's duties included, but were not limited to, conducting construction phase meetings, supervising staff and field tests, defining project scopes, implementing a quality management plan to ensure project deliverables were being performed according to quality standards, and identifying and documenting high-level project risks, assumptions, and constraints. Cost: \$43 million (fee); \$440 million (construction). Specific Role: Construction Manager		
b.	Atlantic Sapphire Miami Blue House Phase 2, Homestead, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Dr. Andary serves as Construction Manager for construction of the fish farm facility, which is being delivered under a CMAR-type delivery method. Work consists of a wastewater treatment plant, chiller plant, electrical distribution building (including but not limited to back-up power), and oxygen storage and interconnection with Phase 1 for fish movement and grading, fish harvesting, personnel movement, wastewater conveyance, processing, finished water from the water treatment systems. Status: The project is estimated for completion in 2028. Cost: \$13 million (design and CMS est. fee); \$350 million (est. construction) Specific Role: Construction Manager		
c.	S-140 Pump Station Improvements Project, South Florida Water Management District (SFWMD) Broward County, FL	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Dr. Andary was responsible for overseeing Hazen's field representatives for the S-140 Pump Station Improvements project. Hazen provided construction management services for the pump station improvements including construction of new access bridge, replacing pump backflow gates, replacing spillway gates, installing new automated Hydro Components trash removal system, replacing existing fuel tanks and piping, abandoning existing groundwater monitoring wells, constructing generator/storage building and all associated equipment, including new generators and emergency fuel supply. Cost: \$543,000 (fee); \$8.57 million (construction) Specific Role: Project Engineer		
d.	Lift Stations No. 2 and No. 49 City of Cooper City, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Dr. Andary served as Project Manager for the design-build project of upgrades to Lift Stations No. 2 and No. 49. The project included installation of necessary connections and startup of bypass pipes and pumping equipment; demolition of existing structures, pumps, and piping; applying special coating to wet well; installing discharge piping and submersible pumps; and testing and startup of lift stations. Duties included coordination and resolution of adjacent neighboring residents' concerns and complaints during critical work periods that affect their day-to-day operation. He also prepared and submitted a detailed schedule of work and provided support associated with public awareness services. He also coordinated all testing, including concrete, densities, hydrostatic for wet wells, pipelines, and pump field tests. Cost: \$967,706 (Design-Build construction cost). Specific Role: Project Manager		
e.	North Regional Wastewater Treatment Plant Septage Receiving Facility, Broward County Water and Wastewater Services, Broward County, FL	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Dr. Andary served as Construction Manager for the construction of Septage Receiving Facility. He performed inspections of the new facilities, issued punch lists that identified deficient items that must be corrected, conducted progress meetings and meetings with utilities; prepared and issued meeting minutes, performed project quality control, issued RFPs and negotiated cost proposals, coordinated startup, performance testing and manufacturer training of County personnel for the new facilities. Cost: \$3.07 million Specific Role: Construction Manager		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 1
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21. TITLE AND LOCATION (City and State) Springtree WTP Electrical Upgrades Phase 1 and Phase 2 City of Sunrise, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2019 - present CONSTRUCTION (If applicable) Ongoing
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23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Sunrise, Florida	b. POINT OF CONTACT NAME Rodrigo de Castro, PE Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER (954) 888-6055
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Status Phase 1 and Phase 2 are ongoing in the construction phase. Size The City of Sunrise (City) operates and maintains the City's Springtree Water Treatment Plant (WTP), which includes a low and medium voltage electrical power distribution system. Critical portions of the electrical system have reached the end of their useful lives and have become a liability to the plant with the potential to limit the flow and volume of water that can be treated and distributed daily. The City has experienced the following concerns with the equipment and requires immediate replacement. - Testing of equipment creates hazard to staff - End of useful life (25+ years) - One VFD has failed and is unable to obtain replacement parts Cost \$337,700 (Design fee) \$574,300 (CMS fee) \$12,391,000 (Construction) Description To facilitate the equipment requiring immediate replacement, the City and Hazen developed a two-phased approach to address the facility needs. The work is phased as follows: Phase 1: - o Replacement of low voltage (480V) motor control centers, MCC-1 and MCC-2 - o Replacement of low voltage (480V) Unit Substations 1 and 2 with a new (480V) main-tie-main switchboard and outdoor, liquid-filled, pad mounted transformers - o Replacement of High Service Pump VFDs including demolition of the isolation transformers - o Replacement of high service pumps, motors, and ancillary piping and appurtenances Phase 2: - o Replacement of the plant's medium voltage (5kV) main switchgear and generator switchgear, including controls - o Replacement of the plant's medium voltage (5kV) electrical distribution equipment within the main electrical building (e.g. MV-MCC-1A/B)	New electrical equipment will be installed to replace the demolished equipment, and will include new service entrance rated, 5kV switchgear and associated controls, provided by a single manufacturer. New generator and utility paralleling controls will be provided and coordination between the City and electrical utility will be facilitated to determine appropriate transition between generators (open vs. closed transition or any other type of scenario). New MV motor control centers will be provided to replace the demolished MV-MCCs. Sequencing of the replacement of the medium voltage equipment will be heavily coordinated to ensure plant operations are maintained throughout the equipment replacement. New outdoor liquid-filled, pad mounted transformers will be provided, located near the electrical building. The new transformers will supply a new 480V main-tie-main switchboard installed in the Transformer Room, which will supply the new low voltage (480V) MCC-1, MCC-2, and the new HSP VFDs. Sequencing of the replacement of the low voltage distribution will also be heavily coordinated. Replacement of the HSP VFDs will commence one at a time, completely removing the existing isolation transformers and replacing the VFDs in their original locations with modern VFDs. Each high service pump, motor, and ancillary piping will be replaced one at a time, in conjunction with the VFD replacement.
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25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Hollywood, FL	(3) ROLE Primary Consultant
b. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Boca Raton, FL	(3) ROLE Primary Consultant
c. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Coral Gables, FL	(3) ROLE Primary Consultant
d. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Raleigh, NC	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 2
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21. TITLE AND LOCATION (City and State) Influent Pump Station and Gravity Interceptor City of Homestead, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2019
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23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Homestead	b. POINT OF CONTACT NAME Julio Brea, PE Director of Public Works and Engineering Department	c. POINT OF CONTACT TELEPHONE NUMBER (305) 224-4770

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)
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Status
Constructed and Operational

Cost
\$675,200 (fee)
\$8 Million (construction)

Description
The City of Homestead undertook a project to address wastewater collection challenges by eliminating a key pump station and implementing a gravity-based solution. Hazen proposed the elimination of PS 1, which would allow the transfer of flow from the western portion of the city to the WWTP via gravity. To support this, a new influent pump station (IPS) was constructed at the WWTP. Hazen designed a new influent pump station (IPS) which featured a divided wet well, housing three pumps for delivering wastewater to the WWTP and three pumps for transferring peak flow to the WASD force main system. The pumps were equipped with variable frequency drives (VFDs) and a standby generator capable of operating the station for a minimum of 72 hours under full load. Instrumentation elements allowed direct monitoring and control of the IPS from the WWTP HMI. Hazen also installed a 36-inch gravity main with a stub out to eliminate PS 21. Two wet wells were converted to manholes to allow wastewater to pass through into the gravity interceptor leading to the IPS. Hazen managed the entire project, from design to construction oversight, ensuring compliance with permits and coordinating with regulatory agencies. The IPS was successfully completed in 2019, delivering a steady flow of 5.0 mgd to the WWTP and resolving the moratorium and runtime issues. The project improved wastewater management and enabled the City to overcome development restrictions in the western portion of the City.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Coral Gables, FL	(3) ROLE Primary Consultant
b.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Jacksonville, FL	(3) ROLE Primary Consultant
c.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Boca Raton, FL	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 3
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21. TITLE AND LOCATION (City and State) North Regional Wastewater Treatment Plant Generator 4 Pompano Beach, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 12/2019

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County Water and Wastewater Services	b. POINT OF CONTACT NAME Alan Garcia, PE Director	c. POINT OF CONTACT TELEPHONE NUMBER (954) 831-0704

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



Status
 Constructed and Operational

Cost
 \$553,000 (fee)
 \$3.6 Million (construction)

Description
Hazen designed the addition of a 2MW Tier 4 Generator to the Electrical Distribution Building 1 (EDB1) at the NRWTP as well as the addition of catalytic converters to Generators 5 and 6 in EDB 1.

Hazen provided emergency services in response to failure of Generator 4. The project enables the County to remain in full compliance with criteria established by the US Environmental Protection Agency (US EPA) as Tier 4 compliance with air emissions limits. Furthermore, this project allows Broward County NRWTP to remain on FPL's load reduction program, which provides the County with annual savings for participating.

Hazen designed this project and coordinated this project with multiple other ongoing projects including Facility Improvements Fast Track (fuel tank and piping replacement), Load Centers 5 and 6 replacement, Reclaimed Water Expansion/EDB 2 Addition, and Capacity Improvements. Because Hazen prepared a full electrical master plan under the NRWTP Facility Improvements project, Hazen sequenced the replacement of generator 4, and the addition of catalytic converters on generator 5 and 6, without interrupting service to the NRWTP and without complications to the other ongoing construction projects.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Hollywood, FL	(3) ROLE Primary Consultant
b. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Coral Gables, FL	(3) ROLE Primary Consultant
c. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Jacksonville, FL	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 4
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21. TITLE AND LOCATION (City and State) Sewer Pump Station 28 Rehabilitation Miami, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
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23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Miami Beach	b. POINT OF CONTACT NAME Omar Mendoza, PE Acting Planning and Design Manager	c. POINT OF CONTACT TELEPHONE NUMBER (305) 673-7080, Ext. 26154
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Status The project started in 2022 and is ongoing. Size Design and construction of improvements/rehabilitation for the City's largest wastewater pump station (a dry well – wet well configuration) with a capacity of 15-mgd for the lift station and 34.1-mgd for the booster station and the design of 1,000 LF of 30-inch force main. Cost \$1,164,000 (Design Fee) \$2,280,000 (CMS Fee) \$43.9 Million (Construction) Description Hazen is providing design of improvements/rehabilitation for the City's largest wastewater pump station, increasing pump station performance and reliability, including hardening improvements to mitigate risks from sea level rise and climate change. Sewer Pump Station 28 (PS 28) is owned and operated by the City of Miami Beach. The station is located at 300 West 28th Street and is a dry well – wet well configuration. The PS 28 lift station (PS 28L) collects flow from its own collection basin as well as two upstream pump stations, PS 13 and 14. PS 28L is a triplex lift station consisting of three 200 horsepower (HP) (two in operation, one standby unit) pumps, that pump the gravity influent into a 36-inch discharge header associated with the booster pumps. PS 28 is also equipped with booster pumps (PS 28B) that boost the flows generated by PS 15, 18, 27, and 29. The 42-inch influent force main feeding the booster pumps enters the station on the east side of the dry well. Similar to PS 28L, PS 28B is a triplex configuration. The 350 HP booster pumps discharge into the 36-inch header to which PS 28L is manifolded. Wastewater from the booster/lift station is pumped southward via a 30-inch force main to the south end of the island, where it exits the City through Miami-Dade Water and Sewer Department (MDWASD) Meter No. M-29 discharging to the Central District Wastewater Treatment Plant (CDWWTP) for treatment and disposal. PS 28 was ranked 7th in the prioritized list of high criticality assets in Hazen's Renewal and Replacement Report dated May 2018 and identified as a High Criticality project (Project S-28) in Hazen's City of Miami Beach Sewer System Master Plan dated October 2019. Hazen's current task is to design improvements to PS 28, increasing pump station performance and reliability, including hardening improvements to	mitigate risks from sea level rise and climate change. Proposed improvements include: - Construct new building for electrical and instrumentation components. Building will meet all required design flood elevation requirements and latest Florida Building Code wind load requirements. - Rehabilitate existing pump station and influent structure through structural improvements, installation of watertight hatches, ladders, and other measures meant to prevent water intrusion and increase the overall hardness of these structures. - Install a new Ventilation / AC system (HVAC) for the new electrical building and existing pump station structure, including but not limited to all mechanical, structural, instrumentation, or electrical systems integral to the Ventilation / AC system. - Install new generator of sufficient capacity to operate the required duty pumps in the event of a power outage, including all structural, mechanical, instrumentation and/or electrical work, (i.e. transfer switch) integral to the generator. - Provide civil site work to improve site accessibility for City maintenance operations, including proper grading and paving to allow proper access to the pump station site and equipment. - Yard piping improvements including modifications to influent and discharge force mains, addition of an emergency pump out, new discharge force main (approximately 1,000 linear feet) that will travel south on Pine Tree Drive and connect to a stub out connection on a new force main in the parking lot of the Scott Rakow Youth Center. - Other miscellaneous civil, mechanical, structural, architectural, electrical, civil, and instrumentation improvements to provide a complete and functional pump station. 
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25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Coral Gables, Florida	(3) ROLE Primary Consultant
b. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Hollywood, Florida	(3) ROLE Primary Consultant
c. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Boca Raton, Florida	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 5
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21. TITLE AND LOCATION (City and State) Lift Station 309 and 130th Avenue Wastewater Force Main Improvements City of Sunrise, Florida	22. YEAR COMPLETED <table> <tr> <td>PROFESSIONAL SERVICES</td><td>CONSTRUCTION <i>(If applicable)</i></td></tr> <tr> <td>2017 - 2020</td><td>2024</td></tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>	2017 - 2020	2024
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>				
2017 - 2020	2024				

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Sunrise	b. POINT OF CONTACT NAME Rodrigo de Castro, PE, CFM Director of Utilities	c. POINT OF CONTACT TELEPHONE NUMBER (954) 888-6055

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>

Status

Completed and Operational

Cost

\$224,949 (fees)

\$1.78 million (construction)

Description

This project consisted of design of an 8-inch diameter force main along the SW 130th Avenue corridor in the Town of Davie and a capacity increase and electrical upgrade for Lift Station 309.

Hazen has served as one of the City of Sunrise's General Consultants on water and wastewater infrastructure projects since 2004. The City owns and operates three wastewater treatment plants that are interconnected via force mains and 214 lift stations. Service areas include Sunrise, Weston, and portions of Davie and Southwest Ranches. The SW 130th Avenue Force Main project is one of the projects awarded to Hazen under this general consulting contract.

The SW 130th Avenue Force Main is located within the Town of Davie and provides service to Town residents through City of Sunrise infrastructure. This multi-jurisdictional project includes hydraulic modeling to confirm the force main length and diameter and installation of approximately 6,300 linear feet of pipeline within the congested right-of-way of SW 130th Avenue. This project included a rehabilitation and capacity increase for Lift Station 309. The new pumps required an increase in power supply, necessitating a new transformer and a complete replacement of associated electrical equipment. Extensive coordination with FPL was also required. Hazen provided hydraulic modeling, preliminary design, and multi-jurisdictional permitting for this project.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Hollywood, Florida	(3) ROLE Primary Consultant
b.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Boca Raton, Florida	(3) ROLE Primary Consultant
c.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Coral Gables, Florida	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 6
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21. TITLE AND LOCATION (City and State) Seminole Tribe Hollywood WWTP Hollywood, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2016 - 2020	CONSTRUCTION (If applicable) 2020
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23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Seminole Tribe of Florida Public Works Department	b. POINT OF CONTACT NAME Luis Rioseco Jr. Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER (954) 894-1060

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)
--

Status
Completed

Cost
\$1.9 million (fee)
\$54 million (project cost)

Description

As part of our work on the STOF Hollywood WWTP project, Hazen designed and provided services during construction for installation of a facility SCADA system.

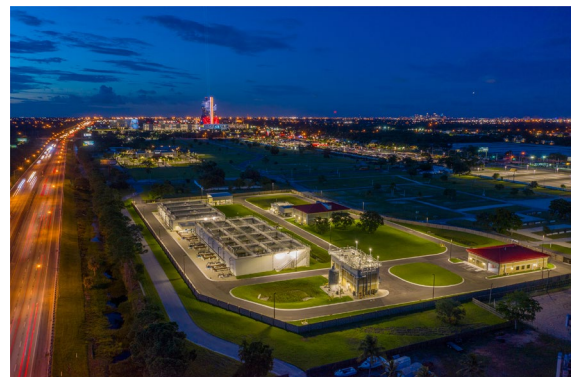
Hazen was retained to plan, design, permit, assist during bid and provide services during construction and startup of a nine million gallon per day capacity sequencing batch reactor wastewater treatment plant (WWTP) for the Seminole Tribe of Florida. This WWTP, located in the City of Hollywood, will service additional flows from the Hard Rock hotel and casino currently under construction. The WWTP SCADA system is designed to be fully automated and operated from a remote location.

SCADA System Design Features

Key features of the SCADA System design are as follows

- The WWTPs SCADA network is built around the EtherNet/IP™ or "Industrial Ethernet" protocol. Ethernet/IP has the simplicity of the web-based Ethernet we are all familiar with, except it is more robust and was developed specifically for process control.
- The EtherNet/IP™ network provides plant-wide network systems using open, industry-standard networking technologies.
- Design included 10 programmable logic controllers (PLC) and 20 variable frequency drives (VFD) that communicate via EtherNet/IP™.
- EtherNet/IP™ allows for enhanced remote diagnostics, electrical installation costs, reduces the control and electrical equipment footprint, and allows for easy future expansion of the network.
- VFDs are networked via Device Level Ring (DLR) protocol, which provides a means for detecting, managing and recovering from faults in a ring-based network.
- The EtherNet/IP™ SCADA network "backbone" consists of a self-healing single-mode fiber optic ring with gigabit Ethernet speeds.
- Designed an Ethernet IP video camera network that provides for both remote viewing of all process areas and site security. The process

camera video streams are integrated into the SCADA Human Machine Interface (HMI), to allow the operators to view the process in remotely while adjusting process setpoints, all on the same HMI screen.



- Design a 65" high ultra-high definition display that will be suspended above the operators' console in the main control room and display all process and security camera images.
- Designed an intrusion alarm system that monitors the doors and windows in every building.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Hollywood, Florida	(3) ROLE Primary Consultant
b. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Boca Raton, Florida	(3) ROLE Primary Consultant
c. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Coral Gables, Florida	(3) ROLE Primary Consultant
d. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Raleigh, North Carolina	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 7
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21. TITLE AND LOCATION <i>(City and State)</i> North District WWTP Electrical Distribution Building No. 3 Miami-Dade County, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022 - 2029	CONSTRUCTION <i>(If applicable)</i> 2029

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Miami-Dade Water and Sewer Department	b. POINT OF CONTACT NAME Victor Delgado, PE, PMP Senior Professional Engineer	c. POINT OF CONTACT TELEPHONE NUMBER (786) 552-4368

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Status
This project is ongoing.

Cost
\$10M (fee)
\$150M (project cost)

Description

Hazen is providing design and engineering services for the construction of Electrical Distribution Building No. 3 (EDB 3). This state-of-the-art facility will replace the existing Electrical Distribution Building No. 1 and provide WASD a more resilient and hardened facility.

This new facility will be designed to be more resilient to storm surge and sea level rise, and have an Incident Command Center (ICC) to provide a safe area for WASD staff to operate the NDWWTP during hurricanes.

One of the first tasks Hazen completed was the preparation of the Power Distribution Plan (PDP). This plan presented a conceptual overall site power distribution and included an updated list of electrical loads that will be connected to EDB 3. Hazen also evaluated this project via the Pre-Assessment Envision® Checklist and recommended to WASD the Envision® components that could be incorporated into the EDB 3 design.

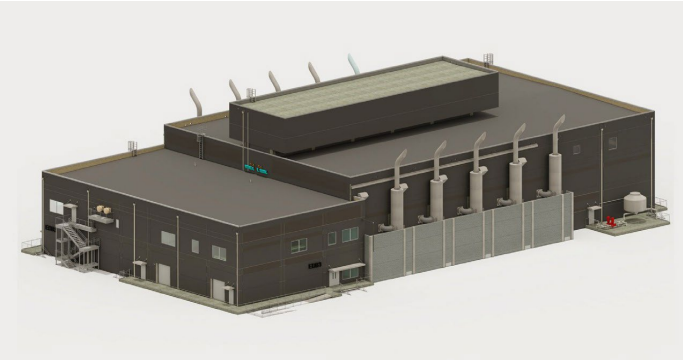
Hazen categorized components into three main classifications:

- Credits not applicable
- Credits already incorporated into typical design per County and WASD standards
- Credits that present an opportunity to enhance the sustainability of the project and should be considered for incorporation into the design.

The ICC will provide operations and maintenance staff a safe location to run the plant during emergency conditions. Significant coordination with other ongoing projects on site took place. To the immediate east of EDB 3 is a proposed electrical building for the existing ocean outfall pump station. Hazen helped coordinate schedules and project delineations for these two projects that will be constructed during a similar time period. Another coordination effort included coordination with the Ocean Outfall Legislation Program. Part of this coordination involved the inclusion of their cooling water supply return loop from their centralized water resource recover facility. This facility will supply cooling water for the EDB 3's air handling

units. Hazen also evaluated the transition of electrical power during construction and commissioning of EDB 3.

Because EDB 3 will ultimately handle the electrical loads from the existing EDB 1, both buildings will need to be operating simultaneously for a period of time while loads are transitioned. Hazen met with operational staff to walk through this step-by-step evaluation on how power will be maintained at the plant during this critical period.



WASD \$150M EDB at NDWWTP

#	4	3	2	1	N/A	Criteria
1	✓					Schedule - Quality of schedule and adherence to schedule resulting in timeliness and minimizing delay to the owner and community.
2	✓					Cost Effectiveness and Efficiency - Budget compliance and value of work.
3	✓					Vision - Design concepts or adherence to criteria.
5	✓					Task in adherence to the schedule.
6	✓					Accuracy and Technical Skills - Cost estimating, scheduling, shop and other drawings, plans, manuals, project documentation, and conflict resolution.
7	✓					Completeness - Compliance with contract document, permits, codes, and standards.
8		✓				Responsiveness - Timely, clear, and concise responses to owner comments and correspondence.
9	✓					Commitment - Intangibles and contribution to project success.
10	✓					Personnel - Quality and dedication of project staff.
11	✓					Management - Leadership ability.
12	✓					Quality - Work performed correctly the first time.

OVERALL PERFORMANCE AVERAGE: 3.9

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Hollywood, Florida	(3) ROLE Primary Consultant
b.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Boca Raton, Florida	(3) ROLE Primary Consultant
c.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Coral Gables, Florida	(3) ROLE Primary Consultant
d.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Jacksonville, Florida	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 8
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21. TITLE AND LOCATION <i>(City and State)</i> Plantation Regional WWTP Diffused Aeration Improvements Plantation, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014 - 2018	CONSTRUCTION <i>(If applicable)</i> 2018

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Plantation	b. POINT OF CONTACT NAME Daniel Pollio Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER (954) 797-2209

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Status
Constructed and Operational

Cost
\$550,000 (Design Fee)
\$950,000 (CMS Fee)

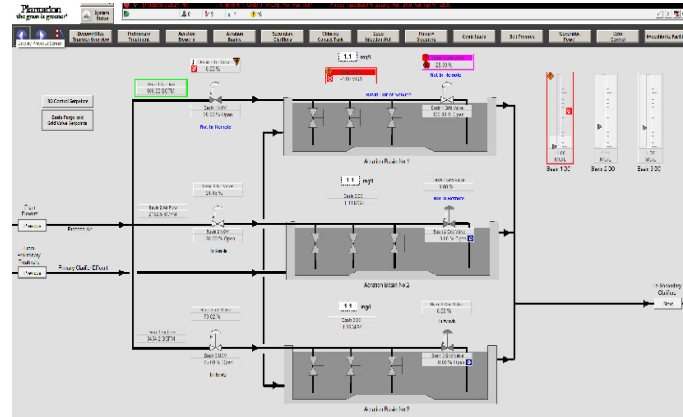
\$8.5M (Overall WWTP Upgrades)
\$1M (SCADA upgrades)

Description
As part of a larger upgrade to the Plantation Regional Wastewater Treatment Plant, Hazen designed and provided services during construction for the replacement of the SCADA system. The design integrated existing equipment and PLCs and expanded the plant's control network.

The existing SCADA system included a single workstation with limited capabilities and a control panel-mounted operator interface unit. The new SCADA system includes a high-performance HMI (HPHMI) graphics/historian suite installed on redundant servers. Approximately 200 signals from six existing and five new Programmable Logic Controllers (PLC), including the aeration basins, chemical metering systems, emergency generators, gravity belt thickeners, odor control system, and disinfection system, were integrated into the new SCADA HMI and historian.

Detailed design of the new SCADA system included reuse of the plant's existing fiber optic network cabling, with additional fiber optic cabling installed to expand and harden the network. The SCADA network is built around the EtherNet/IP™ or "Industrial Ethernet" protocol. EtherNet/IP has the simplicity of the web-based Ethernet we are all familiar with, except it is more robust and was developed specifically for process control.

The SCADA HMI and PLC software are both provided by Rockwell Automation (Allen-Bradley), which provides many of the best features of a Distributed Control System (DCS) with the hardware and software flexibility and lower cost of a PLC/HMI based system. "DCS-like" features include advanced monitoring and control and real-time diagnostic capability. The HPHMI graphic screens have many advantages, including improved operator situational awareness and process surveillance, better abnormal situation detection and response. The HPHMI graphics show not only process measurement, but where the measurement is relative to alarm limits. Abnormal conditions are designed to stand out clearly. Construction of the new SCADA system was carried out concurrently with conversion of the plant's aeration system from mechanical aeration to diffused aeration. Dissolved oxygen is currently being maintained in the basins by a "air flow demand" control strategy, which regulates blower air flow directly based on the total oxygen demand of all active basins. This enhanced, more energy-efficient control strategy results in both electrical power cost savings and an aeration system that is easier to troubleshoot and tune, in comparison with more traditional methods.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Hollywood, Florida	(3) ROLE Primary Consultant
b.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Boca Raton, Florida	(3) ROLE Primary Consultant
c.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION <i>(City and State)</i> Jacksonville, Florida	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 9
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21. TITLE AND LOCATION (City and State) North Regional Wastewater Treatment Plant SCADA System Replacement Broward County, Florida	22. YEAR COMPLETED PROFESSIONAL SERVICES 2012 - 2023	CONSTRUCTION (If applicable) 2023
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23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County	b. POINT OF CONTACT NAME Merle Medina Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER (954) 831-0798

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)
--

Status

Constructed and Operational

Cost

\$798,931 (fee)

\$4,817,034 (construction)

Description

Hazen provided software needs assessment, process control system hardware requirements, software functional evaluation, design, permitting, procurement assistance, and construction management services related to the SCADA system replacement project.

Services also included permitting assistance, assistance with bidder qualifications, bid proposal evaluation, and award process. Construction phase services included factory acceptance testing, construction management, and startup services.

Background

In the late 1980s, Broward County installed a Supervisory Control and Data Acquisition (SCADA) system to serve the North Regional Wastewater Treatment Plant (NRWWTP). Over time, the control system division of Johnson Controls was sold to a number of companies. The original hardware and software was no longer manufactured. To facilitate WWTP improvements completed since installation of the original system and programmable logic controllers (PLC), Hazen designed a hybrid of existing Johnson Controls equipment and newer "open architecture" PLC equipment manufactured by Allen Bradley.

By 2010, the system was more than 20 years old, physically and functionally obsolete. Recognizing the need to replace the system while continuing to provide uninterrupted process control functionality to WWTP operations during the system transition process, Hazen, together with the County, developed a multi-phase program using open architecture hardware and software technologies together with a two-step qualified competitive bid process. Implementation in multiple phases under a single construction contract will ensure minimal interruption to plant operations as process areas are transitioned to the new system. Hazen's detailed knowledge of prior facility improvement projects, existing process, process constraints, and parameters as well as ongoing and planned facility improvements was critical to ensure a successful transition design.

The proposed SCADA system "open architecture" approach accomplishes the following—it utilizes the County's existing PLC hardware and programming investments, together with new hardware and software that is available and supported by multiple sources. This ensures the County that long-term services will be available to the NRWWTP to support the system without reliance on a single source vendor.



Existing Main Control Room

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Boca Raton, Florida	(3) ROLE Primary Consultant
b. (1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Hollywood, Florida	(3) ROLE Primary Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 10		
21. TITLE AND LOCATION (City and State) Water and Wastewater Telemetry Reliability Upgrade Boca Raton, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2016-2021</td> <td>CONSTRUCTION (If applicable) 2021</td> </tr> </table>	PROFESSIONAL SERVICES 2016-2021	CONSTRUCTION (If applicable) 2021
PROFESSIONAL SERVICES 2016-2021	CONSTRUCTION (If applicable) 2021			
23. PROJECT OWNER'S INFORMATION				
a. PROJECT OWNER City of Boca Raton	b. POINT OF CONTACT NAME Michael Tufts Instrumentation SCADA Superintendent	c. POINT OF CONTACT TELEPHONE NUMBER (561) 447-7411		
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)				

Size
Replacement of 2 Telemetry Systems including 288 Remote Sites

Cost
\$310,370 (engineering fee - design and bidding)
\$4.38 million (construction)
\$289,402 (fee - services during construction)

Description
Hazen provided preliminary design, detailed design, bidding and construction phase services for the complete replacement of two radio telemetry systems including 288 remote sites. The design features both cellular and licensed radio systems.

The City of Boca Raton owns and operates two radio-based telemetry systems to remotely monitor and control its wastewater collection system and its raw water transmission/potable water distribution systems respectively. The remote telemetry units (RTU) and radios are obsolete; the existing antennas have reached the end of their useful life; and repair/ replacement has become difficult. Additionally, RTU technology has dramatically improved and can provide improved functionality above the current system's capabilities.

The City contracted with Hazen to prepare a preliminary design report that evaluated the City's existing telemetry systems, reviewed the status of current system technology, and recommended upgrades to enhance the reliability and performance of the City's systems. After a detailed evaluation of the studied options, the City determined that utilizing cellular services with redundant 928/952 MHz licensed radios links at select sites is the best option to move forward. This approach allows the City to remove radio masts and antennas at most remote sites and replace them with low profile cellular antennas.

This project improved the reliability and functionality of the City's water and wastewater telemetry systems through the replacement and improvement of core system hardware and software components. Key improvements associated with this project include the replacement of RTUs with newer technology, installation of cellular communications equipment, and installation of new 928/952 MHz radios and antennas for redundant communication at select sites. Additionally, the existing system software was replaced with the more secure and feature-rich DNP3 Ethernet communications protocol. This protocol allows the RTUs to log all events locally and transmit them to the SCADA servers periodically. In addition, it minimizes data transmissions using report-by-exception and unsolicited messaging techniques.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Boca Raton, Florida
		(3) ROLE Primary Consultant
b.	(1) FIRM NAME Hazen and Sawyer	(2) FIRM LOCATION (City and State) Hollywood, Florida
		(3) ROLE Primary Consultant

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Jennifer McMahon, PE	Project Director	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐
Evan Curtis, PE	Project Manager	☐	☒	☐	☒	☐	☒	☒	☒	☒	☒
David Atkinson, Jr., PE	QA/QC Technical Advisory	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Brad Pickett, PE, PMP, LEED AP	QA/QC Technical Advisory	☒	☐	☐	☐	☒	☐	☐	☐	☐	☐
Jared Stanbridge, PE	QA/QC Technical Advisory	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
John Burke, PE	Electrical Engineering & Electronics	☒	☒	☒	☒	☐	☒	☒	☒	☒	☐
Keff Kurella, PE	Electrical Engineering & Electronics, Instrumentation & Control	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Jose Cano, PE	Electrical Engineering & Electronics, Construction Management / Inspections, Operations / Startup	☒	☐	☐	☐	☐	☐	☒	☐	☐	☐
J. Patrick Bowles, PE	Electrical Engineering & Electronics	☒	☐	☐	☐	☒	☐	☐	☐	☐	☐
Kyle Ringger, PE	Instrumentation & Control, Construction Management/Inspections, Operations/Start-up	☐	☐	☐	☒	☐	☒	☐	☐	☐	☒
Alfredo Jimenez	Instrumentation & Control, Operations / Startup	☐	☐	☐	☐	☐	☐	☒	☒	☐	☐
Laura Gonzales-Garcia	Instrumentation & Control	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐
Anthony Niemiec, PE, BCEE	Permitting / Regulatory Compliance, Bidding Services, Construction Management / Inspections	☒	☐	☐	☒	☒	☒	☐	☒	☐	☐
Michael Robinson, EI	Permitting / Regulatory Compliance, Bidding Services	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐
Sharon Simington	Grants / Funding	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Elie Andary, PhD, PE	Construction Management / Inspections	☐	☐	☐	☐	☐	☒	☒	☒	☐	☐

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Springtree WTP Electrical Upgrades Phase 1 and Phase 2 City of Sunrise, Florida	6	Seminole Tribe Hollywood WWTP Hollywood, Florida
2	Influent Pump Station and Gravity Interceptor City of Homestead, Florida	7	North District WWTP Electrical Distribution Building No. 3 Miami-Dade County, Florida
3	North Regional Wastewater Treatment Plant Generator 4 Pompano Beach, FL	8	Plantation Regional WWTP Diffused Aeration Improvements Plantation, Florida
4	Sewer Pump Station 28 Rehabilitation Miami, Florida	9	North Regional Wastewater Treatment Plant SCADA System Replacement Broward County, Florida
5	Lift Station 309 and 130th Avenue Wastewater Force Main Improvements City of Sunrise, Florida	10	Water and Wastewater Telemetry Reliability Upgrade Boca Raton, Florida

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Project Team Qualifications

Hazen prides itself on the long-term experience of our key personnel. Through our team's long-standing presence in the tri-County area, we have established working relationships with the agencies, local governments, and key decision makers that will be crucial to making each project a successful one. We offer an outstanding and dedicated team with significant experience, local knowledge, and understanding of the City's needs. Our full-service team capabilities mean that we can quickly and cost-effectively address any assignment or challenge.

The Hazen team is well qualified to provide the full range of technical expertise required for this contract. We believe our project management success is directly attributable to certain key aspects of the firm's corporate culture. Company principals are directly involved in all major decisions, which results in efficient and timely project development, implementation, and completion. Secondly, we have carefully controlled growth and expansion of our areas of practice. This has enabled study and design teams to work together on numerous projects over considerable periods of time. Team continuity results in both high-quality and cost-effectiveness. Such continuity exists in our project team proposed for the City of Pembroke Pines. Thirdly, the firm's culture has been to avoid the creation of unnecessary management, administration and marketing layers, thus minimizing excessive overhead costs.

Hazen's expertise in providing the services relevant to the City of Pembroke Pines for the scope of this RFQ is detailed below.

ELECTRICAL ENGINEERING EXPERTISE

Hazen has completed over 3,000 projects in the water industry, all requiring some level of electrical design. We are experts in upgrading electrical systems at water treatment and pumping facilities.

Hazen provides design and construction oversight of electrical power distribution systems on all of its projects, including low- and medium-voltage distribution switchgear, standby power systems with paralleling switchgear, motor control centers, variable frequency drives, lighting, grounding, and lightning protection systems. Some designs have incorporated intelligent motor control centers networked to plant SCADA systems to allow for power monitoring and system diagnostics.

Hazen has completed numerous power system studies including Arc Flash Hazard Studies as "stand alone" projects or as a part of larger projects. As a standard part of our electrical design, we complete Arc Flash Hazards studies to ensure potential Arc Flash hazards of the electric power distribution systems are minimized. We also perform other electrical studies such as fault current analysis, harmonic evaluations, protective device coordination studies, and transient motor starting analysis. We use the latest versions on SKM Power Tools and ETAP Power Station software to complete all of our power system studies.

INSTRUMENTATION AND CONTROLS EXPERTISE

Hazen is recognized as a leader in Florida in the design and implementation of integrated instrumentation, process control, telemetry and information systems for utility systems in the rapidly advancing field of computer control and data communications.

Almost since the firm's inception, Hazen has provided instrumentation, control, and SCADA system design and construction services. Our capabilities rival those of specialty automation consultants. Hazen is often chosen to perform stand-alone automation and SCADA projects and to provide these services to other consultants. Our control system engineers are dedicated to projects in water and wastewater.

Our goal on every project is to provide a practical and cost-effective system that uses the latest technology and meets the needs of each client. Each system design includes input from the client regarding functionality and technology. Our large volume of experience gives us the highest understanding of the state-of-the-art in SCADA hardware, software, and communication systems. Our engineers are expert in these areas:

- Field investigations
- SCADA-related renovations
- PLC/PAC hardware applications and programming
- HMI software specification configuration
- Data management software systems
- Communication subsystems
- Security measures for SCADA infrastructure.

Current Workload

Hazen has the conservative approach of undertaking new projects only when workload permits. We feel that it is important that "the project team you see is the project team you get." Should Hazen be selected to provide services for the City, the individuals identified in our organizational chart will serve on this contract. We can ensure the City continuity of staff committed and qualified to provide the resources necessary to complete this project.

With the selection of Hazen, you can be assured that the City's projects will be performed on time and within budget. If additional resources are required at any given time, Hazen maintains sufficient staff in our ten Florida offices in all of the necessary disciplines and also has the capacity to draw upon our firm-wide staff members should an unforeseen circumstance occur or if specific expertise is required at the City's request. Our Project Manager and all key personnel, which includes our qualified subconsultants, will dedicate the necessary time to see each task through from conception to completion.

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Available Facilities, Technological Capabilities, and Other Available Resources

The Hazen team is equipped with the available facilities, technological capabilities to successfully complete any work assignment. Our nationwide network of over 80 offices, including our regional headquarters in Hollywood, Florida, has the resources to successfully complete any work assignment. Hazen is deeply entrenched with current and cutting-edge technology to enhance the capabilities and efficiency of our users and provide world-class services to our clients using available technology in the marketplace. Our systems consist of both Cloud-hosted and in house/on premise solutions. We are a Microsoft-hosted customer and provide all our users with the complete suite of up-to-date solutions which primarily include the Microsoft Office Suite of programs.

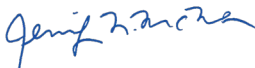
As an engineering firm, we utilize a vast amount of specialized software specific to our industry. The main components include AutoCAD products primarily Revit and Civil 3D for design staff. Water and wastewater software includes Bentley, Innowyze, and EnviroSim, to name a few. For graphics and video, we use the complete line of Adobe CC products and Virtual and 3D imagery with AutoCAD 3DSMax and Clever and Insite VR. Estimating, Financials and Construction Management utilize software systems from Deltek Vantagepoint, Oracle Primavera, and CostWorks.

The Hazen network team consists of a skilled team of IT professionals that maintain a high-speed fiber only network connecting our offices across the country. These systems, which are fully redundant, provide the backbone to connect all the users in the firm to collaborate efficiently. The network utilizes the latest servers, firewalls, and WAN Accelerators from Dell, SonicWALL and Riverbed.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31 SIGNATURE



32. DATE

September 15, 2025

33. NAME AND TITLE

Jennifer McMahon, PE, Vice President

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ #PSUT-25-10

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

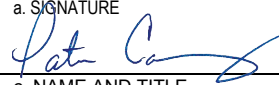
2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer			3. YEAR ESTABLISHED 1951	4. UNIQUE ENTITY IDENTIFIER FFSSK2D6MD53
2b. STREET 4000 Hollywood Boulevard, Suite 750 North			5. OWNERSHIP	
2c. CITY Hollywood	2d. STATE FL	2e. ZIP CODE 33021	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Patricia Carney, PE, BCEE, DBIA, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (954) 987-0066	6c. E-MAIL ADDRESS pcarney@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	222	12	C15	Construction Management	10
06	Architect	27		C18	Cost Estimating	3
07	Biologist	3		D02	Dams (Earth, Rock)	6
08	CADD Technician	179	5	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	43		D04	Design-Build	8
12	Civil Engineer	349	14	E03	Electrical Studies & Design	2
14	Computer Programmer	11		E07	Energy Conservation	4
15	Construction Inspector	92	5	E08	Engineering Economics	5
16	Construction Manager	101	4	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6	1	I03	Industrial Waste Treatment	5
21	Electrical Engineer	136	3	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	549	21	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	49	1	P07	Plumbing and Piping Design	3
29	GIS Specialist	26	1	S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	11	1	S07	Solid Wastes	1
32	Hydraulic Engineer	36	3	S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	83		S13	Stormwater Handling & Facilities	9
57	Structural Engineer	82	3	T02	Testing & Inspection Services	5
58	Technician/Analyst	102	3	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	138	5	W02	Water Supply; Trmt and Distribution	10
Total		2,254	82			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE September 15, 2025
c. NAME AND TITLE Patricia Carney, PE, BCEE, DBIA, Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ #PSUT-25-10

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

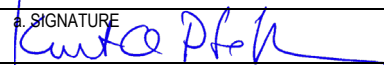
2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer			3. YEAR ESTABLISHED 1951	4. UNIQUE ENTITY IDENTIFIER FFSSK2D6MD53
2b. STREET 2101 NW Corporate Boulevard, Suite 301			5. OWNERSHIP	
2c. CITY Boca Raton	2d. STATE FL	2e. ZIP CODE 33431	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Kurt Pfeffer, PE, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (561) 997-8070	6c. E-MAIL ADDRESS kpfeffer@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	222	3	C15	Construction Management	10
06	Architect	27		C18	Cost Estimating	3
07	Biologist	3		D02	Dams (Earth, Rock)	6
08	CADD Technician	179	2	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	43	1	D04	Design-Build	8
12	Civil Engineer	349	2	E03	Electrical Studies & Design	2
14	Computer Programmer	11		E07	Energy Conservation	4
15	Construction Inspector	92	2	E08	Engineering Economics	5
16	Construction Manager	101	2	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	136	1	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	549	7	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	49	1	P07	Plumbing and Piping Design	3
29	GIS Specialist	26	2	S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	11		S07	Solid Wastes	1
32	Hydraulic Engineer	36		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	83		S13	Stormwater Handling & Facilities	9
57	Structural Engineer	82	3	T02	Testing & Inspection Services	5
58	Technician/Analyst	102	2	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	138	4	W02	Water Supply; Trmt and Distribution	10
Total		2,254	32			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE September 15, 2025
c. NAME AND TITLE Kurt Pfeffer, PE, Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ #PSUT-25-10

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer			3. YEAR ESTABLISHED 1951	4. UNIQUE ENTITY IDENTIFIER FFSSK2D6MD53
2b. STREET 999 Ponce de Leon Boulevard, Suite 1150			5. OWNERSHIP	
2c. CITY Coral Gables	2d. STATE FL	2e. ZIP CODE 33134	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Jayson Page, PE, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (305) 443-4001	6c. E-MAIL ADDRESS jpage@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	222	1	C15	Construction Management	10
06	Architect	27		C18	Cost Estimating	3
07	Biologist	3		D02	Dams (Earth, Rock)	6
08	CADD Technician	179		D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	43	1	D04	Design-Build	8
12	Civil Engineer	349	10	E03	Electrical Studies & Design	2
14	Computer Programmer	11		E07	Energy Conservation	4
15	Construction Inspector	92	1	E08	Engineering Economics	5
16	Construction Manager	101	1	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	136	3	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	549	4	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	49	1	P07	Plumbing and Piping Design	3
29	GIS Specialist	26		S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	11		S07	Solid Wastes	1
32	Hydraulic Engineer	36		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	83	1	S13	Stormwater Handling & Facilities	9
57	Structural Engineer	82	1	T02	Testing & Inspection Services	5
58	Technician/Analyst	102	2	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	138	1	W02	Water Supply; Trmt and Distribution	10
Total		2,254	27			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE September 15, 2025
c. NAME AND TITLE Jayson Page, PE, Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ #PSUT-25-10

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

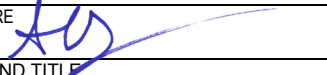
2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer			3. YEAR ESTABLISHED 1951	4. UNIQUE ENTITY IDENTIFIER FFSSK2D6MD53
2b. STREET 7751 Belfort Parkway, Suite 110			5. OWNERSHIP	
2c. CITY Jacksonville	2d. STATE FL	2e. ZIP CODE 32256	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Andre Dieffenthaler, PE, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (904) 296-1503	6c. E-MAIL ADDRESS adieffenthaler@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	222		C15	Construction Management	10
06	Architect	27		C18	Cost Estimating	3
07	Biologist	3		D02	Dams (Earth, Rock)	6
08	CADD Technician	179		D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	43		D04	Design-Build	8
12	Civil Engineer	349		E03	Electrical Studies & Design	2
14	Computer Programmer	11		E07	Energy Conservation	4
15	Construction Inspector	92	1	E08	Engineering Economics	5
16	Construction Manager	101	1	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	136	1	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	549	3	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	49		P07	Plumbing and Piping Design	3
29	GIS Specialist	26		S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	11		S07	Solid Wastes	1
32	Hydraulic Engineer	36		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	83		S13	Stormwater Handling & Facilities	9
57	Structural Engineer	82		T02	Testing & Inspection Services	5
58	Technician/Analyst	102	2	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	138		W02	Water Supply; Trmt and Distribution	10
Total		2,254	8			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE September 15, 2025
c. NAME AND TITLE Andre Dieffenthaler, PE, Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ #PSUT-25-10

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer			3. YEAR ESTABLISHED 1951	4. UNIQUE ENTITY IDENTIFIER FFSSK2D6MD53
2b. STREET 1000 N. Ashley Drive, Suite 1000			5. OWNERSHIP	
2c. CITY Tampa	2d. STATE FL	2e. ZIP CODE 33602	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Holly Kremers, PE, Associate Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (813) 630-4498	6c. E-MAIL ADDRESS hkremers@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	222	3	C15	Construction Management	10
06	Architect	27		C18	Cost Estimating	3
07	Biologist	3		D02	Dams (Earth, Rock)	6
08	CADD Technician	179	6	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	43	3	D04	Design-Build	8
12	Civil Engineer	349	7	E03	Electrical Studies & Design	2
14	Computer Programmer	11		E07	Energy Conservation	4
15	Construction Inspector	92	1	E08	Engineering Economics	5
16	Construction Manager	101		E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6	1	I03	Industrial Waste Treatment	5
21	Electrical Engineer	136	4	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	549	19	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	49	2	P07	Plumbing and Piping Design	3
29	GIS Specialist	26	1	S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	11		S07	Solid Wastes	1
32	Hydraulic Engineer	36	1	S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	83	2	S13	Stormwater Handling & Facilities	9
57	Structural Engineer	82	1	T02	Testing & Inspection Services	5
58	Technician/Analyst	102	3	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	138	7	W02	Water Supply; Trmt and Distribution	10
Total		2,254	61			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	6	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE September 15, 2025
c. NAME AND TITLE Holly Kremers, PE, Associate Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ #PSUT-25-10

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer (Atlanta Branch Office)			3. YEAR ESTABLISHED 1951 (Firm) 2001 (Atlanta)		4. UNIQUE ENTITY IDENTIFIER FFSSK2D6MD53
2b. STREET 1300 Altmore Avenue, Suite 520			5. OWNERSHIP		
2c. CITY Atlanta	2d. STATE GA	2e. ZIP CODE 30342	a. TYPE Employee Owned		
6a. POINT OF CONTACT NAME AND TITLE Alan Bowling, PE, Associate Vice President			b. SMALL BUSINESS STATUS		
6b. TELEPHONE NUMBER (404) 459-6363	6c. E-MAIL ADDRESS abowling@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees	
		(1) FIRM	(2) BRANCH (Atlanta)
02	Administrative	222	5
06	Architect	27	
07	Biologist	3	
08	CADD Technician	179	4
10	Chemical Engineer	43	2
12	Civil Engineer	349	13
14	Computer Programmer	11	
15	Construction Inspector	92	4
16	Construction Manager	101	6
18	Cost Engineer/Estimator	7	
20	Economist	6	
21	Electrical Engineer	136	10
23	Environmental Engineer	549	27
24	Environmental Scientist	49	1
29	GIS Specialist	26	
30	Geologist	11	
32	Hydraulic Engineer	36	3
39	Landscape Architect	2	
41	Mechanical Engineer	83	3
57	Structural Engineer	82	5
58	Technician/Analyst	102	2
62	Water Resources Engineer	138	10
Total		2,254	95

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS*

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
C15	Construction Management	10
C18	Cost Estimating	3
D02	Dams (Earth, Rock)	6
D03	Desalination (Process & Facilities)	2
D04	Design-Build	8
E03	Electrical Studies & Design	2
E07	Energy Conservation	4
E08	Engineering Economics	5
E09	Environmental Impact Studies	6
H04	HVAC	2
I03	Industrial Waste Treatment	5
P05	Planning (Comm., Reg., Area, State)	7
P06	Planning (Site, Install. and Project)	4
P07	Plumbing and Piping Design	3
S04	Sewage Collect, Trmt and Disposal	10
S07	Solid Wastes	1
S10	Surveying; Platting; Mapping	3
S11	Sustainable Design	6
S13	Stormwater Handling & Facilities	9
T02	Testing & Inspection Services	5
W02	Water Resources; Hydrology; Ground Water	9
W03	Water Supply; Trmt and Distribution	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

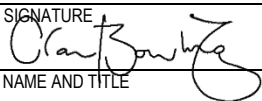
a. Federal Work	6
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,00 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE September 15, 2025
c. NAME AND TITLE Alan Bowling, PE, Associate Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ #PSUT-25-10

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer (Raleigh Branch Office)			3. YEAR ESTABLISHED 1951 (Firm) 1973 (Raleigh)		4. UNIQUE ENTITY IDENTIFIER FFSSK2D6MD53	
2b. STREET 4011 WestChase Boulevard, Suite 500			5. OWNERSHIP			
2c. CITY Raleigh		2d. STATE NC	2e. ZIP CODE 27607		a. TYPE Employee Owned	
6a. POINT OF CONTACT NAME AND TITLE Patricia Drummey Stiegel, PE, Vice President			b. SMALL BUSINESS STATUS			
6b. TELEPHONE NUMBER (919) 833-7152		6c. E-MAIL ADDRESS pdrummey@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees	
		(1) FIRM	(2) BRANCH (Raleigh)
02	Administrative	222	68
06	Architect	27	7
07	Biologist	3	1
08	CADD Technician	179	50
10	Chemical Engineer	43	
12	Civil Engineer	349	32
14	Computer Programmer	11	3
15	Construction Inspector	92	6
16	Construction Manager	101	14
18	Cost Engineer/Estimator	7	
20	Economist	6	2
21	Electrical Engineer	136	23
23	Environmental Engineer	549	54
24	Environmental Scientist	49	6
29	GIS Specialist	26	1
30	Geologist	11	1
32	Hydraulic Engineer	36	5
39	Landscape Architect	2	
41	Mechanical Engineer	83	10
57	Structural Engineer	82	20
58	Technician/Analyst	102	22
62	Water Resources Engineer	138	10
Total		2,254	335

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS*

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
C15	Construction Management	10
C18	Cost Estimating	3
D02	Dams (Earth, Rock)	6
D03	Desalination (Process & Facilities)	2
D04	Design-Build	8
E03	Electrical Studies & Design	2
E07	Energy Conservation	4
E08	Engineering Economics	5
E09	Environmental Impact Studies	6
H04	HVAC	2
I03	Industrial Waste Treatment	5
P05	Planning (Comm., Reg., Area, State)	7
P06	Planning (Site, Install. and Project)	4
P07	Plumbing and Piping Design	3
S04	Sewage Collect, Trmt and Disposal	10
S07	Solid Wastes	1
S10	Surveying; Platting; Mapping	3
S11	Sustainable Design	6
S13	Stormwater Handling & Facilities	9
T02	Testing & Inspection Services	5
W02	Water Resources; Hydrology; Ground Water	9
W03	Water Supply; Trmt and Distribution	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

a. Federal Work	6
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,00 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

c. NAME AND TITLE

September 15, 2025

Patricia Drummey Stiegel, PE, Vice President

Proposer's Background Information Form

#	Question	Response	Comment	Status
Contact Information				
1.1.1	Primary Contact: Please provide the contact information (Name, Title, E-mail and Phone Number) for the Primary Contact for this project.	Evan Curtis, PE, Associate Vice President and Proposed Project Manager	Our proposed Project Manager, Evan Curtis, PE, can be reached at ecurtis@hazenandsawyer.com	Complete
1.1.2	Authorized Approver: Please provide the contact information (Name, Title, E-mail and Phone Number) for the Authorized Approver for this project.	Jennifer McMahon, PE, Vice President; jmcMahon@hazenandsawyer.com; (954) 987-0066		Complete
Organization Background				
1.2.1	Please state the year that you company started its business.	1951		Complete
1.2.2	Please state the year that your company started providing service under your current business name.	1951		Complete
1.2.3	What State is your Company Registered In?	Hazen is incorporated (registered) in New York and is authorized to transact business in Florida.		Complete
Former Business				
1.3.1	Under what former name has your business operated? Include a description of the business.	Hazen has not operated under any former names. Hazen is an employee-owned firm established in 1951.	Hazen's roots go back over 100 years to the accomplishments of Allen Hazen, one of the pioneers of modern water supply engineering and co-developer of the Hazen-Williams formula for fluid flow in pipes in 1903. Hazen and Sawyer, a New York corporation, was established by Hazen's son Richard and Alfred W. Sawyer in 1951. Together, they created a company culture focused on the profession—not just the business—of engineering. Their legacy is a firm with a reputation for high-quality work and customer service. Since 1951, Hazen has focused on two critical activities: Helping our clients provide safe drinking water to their customers and controlling water pollution and resultant effects on the environment. Hazen's exclusive focus is water resources engineering. We provide comprehensive capabilities in areas including, but not limited to, evaluation, planning, design, permitting and bidding assistance; hydraulic modeling; regulatory compliance; grant funding; electrical engineering and electronics; instrumentation and control; construction management and administration; and startup, training, and operations assistance. Hazen has served utilities with complete in-house engineering services from our regional headquarters in Hollywood, Florida, since 1968. We also have the largest water and wastewater design center in South Florida. We value our ongoing partnership with the City, which began in 1992, and look forward to the opportunity to support the City through this current opportunity.	Complete
1.3.2	At what address was that business located?	Hazen's responsible office is located at: 4000 Hollywood Blvd., Suite 750 North, Hollywood, FL 33021		Complete
Past Failure				
1.4.1	Have you ever failed to complete work awarded to you. If so, when, where and why?	No		Complete
Inspected				
1.5.1	Have you personally inspected the proposed WORK and do you have a complete plan for its performance?	No	Because this RFP is for a general consulting contract, no specific project has been identified for inspection at this stage. Our commitment to the City is that, as individual assignments are issued, our team will personally review and inspect each scope of work, develop a complete and tailored plan, and coordinate closely with City staff to ensure all work is delivered successfully, efficiently, and to the City's standards.	Complete
Subcontracting				

1.6.1	Will you subcontract any part of this WORK? If you will be subcontracting any part of this work, provide details including a list of each sub-contractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s). (Note: The proposed list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the Contract Administrator, whose approval shall not be reasonably withheld.)	No		Complete
Bankruptcy Petitions				
1.7.1	List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the Proposer, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.	None		Complete
Bond Claims				
1.8.1	List and describe all successful Bond claims made to your surety(ies) during the last five (5) years. The list and descriptions should include claims against the bond of the Proposer and its predecessor organization(s).	None		Complete
Claims, Arbitrations, Administrative Hearings and Lawsuits				
1.9.1	List all claims, arbitrations, administrative hearings and lawsuits brought by or against the Proposer or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.	See attachment	A response to 1.9.1 has been uploaded as a separate attachment.	Complete
Criminal Proceedings or Hearings				
1.10.1	List and describe all criminal proceedings or hearings concerning business related offenses in which the Proposer, its principals or officers or predecessor organization(s) were defendants.	None		Complete
Company Classification				
1.11.1	In regards to the commodities/services proposed, which of the following best classifies your firm? If you selected any options besides "Original Provider" please explain.	Original Provider		Complete
Debarment/Suspension				
1.12.1	Have you ever been debarred or suspended from doing business with any governmental agency? If you have been debarred or suspended from doing business with any governmental agency, please explain.	No		Complete
Similar Experience & Contracts				
1.13.1	Describe the firm's local experience/nature of service with contracts of similar size and complexity, in the previous three (3) years.		Hazen specializes in all aspects of municipal water resources infrastructure, with a strong focus on electrical engineering for water and wastewater systems. Since 1951, we have delivered innovative, reliable solutions to aid our Clients in supplying safe drinking water to customers, managing of wastewater to protect public health and the environment, and addressing stormwater challenges to safeguard communities and mitigate environmental risks. Additionally, our team brings a deep bench of experience in electrical systems design, instrumentation, SCADA controls, and automation for municipal operations. We offer comprehensive services including field inspections, equipment evaluations, condition assessments, technical memoranda, cost estimating, preliminary and detailed design, permitting, regulatory compliance, bidding support, construction management, and operational startup. Hazen's engineers are adept at maintaining uninterrupted plant operations during upgrades and maximizing the use of existing infrastructure, ensuring efficiency, cost-effectiveness, and regulatory compliance. Our capabilities span: •Electrical design and evaluation for switchgear, transformers, VFDs, duct banks, and emergency power systems. •SCADA and PLC system planning, design, construction oversight, systems integration, and cybersecurity assessments. •Arc flash and circuit breaker coordination studies. •Lighting, fire alarm, and security system design. •Renewable energy systems including solar, cogeneration, and natural gas.	Complete
Professional License Information				

1.14.1	Are professional licenses required to perform the services requested in this solicitation? If so, please list any applicable professional licenses that your company has that are required to provide these services.	Applicable	Florida Professional Engineer's license	Complete
Conflict of Interest				
1.15.1	Do you need to disclose any conflicts of interest? The award of any contract hereunder is subject to the provisions of Chapter 112, Florida Statutes. Proposers must disclose with their Proposal the name of any officer, director, partner, proprietor, associate or agent who is also an officer or employee of CITY or any of its agencies. Further, all Proposers must disclose the name of any officer or employee of CITY who owns, directly or indirectly, an interest of five percent (5%) or more in the Proposer 's firm or any of its branches or affiliate companies.	No		Complete
19 Questions			100.00% Complete	



**SWORN STATEMENT
ON PUBLIC ENTITY CRIMES
UNDER FLORIDA STATUTES CHAPTER 287.133(3)(a).**

1. This sworn statement is submitted Hazen and Sawyer
(name of entity submitting sworn statement) whose business address is
4000 Hollywood Boulevard, Suite 750 North, Hollywood, FL 33021
and (if applicable) its Federal Employer Identification Number (FEIN) is
13-2904652. (If the entity has no FEIN, include the Social Security
Number of the individual signing this sworn statement: N/A.)
2. My name is Jennifer McMahon, PE and my
(Please print name of individual signing)
relationship to the entity named above is Vice President of Hazen and Sawyer.
3. 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 with the United States, including, but not limited to, any bid, proposal, reply, or contract for goods or services, any lease for real property, or any contract for the construction or repair of a public building or public work, involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
4. I understand that a "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, nonjury trial, or entry of a plea of guilty or nolo contendere.
5. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:
 1. A predecessor or successor of a person convicted of a public entity crime: or
 2. 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 Cityship 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.

6. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or any 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 bids or applies to bid on contracts let by a public entity, or which otherwise transacts or applies to transact business with 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.
7. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **(Please indicate which statement applies.)**
- ☒ A) Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.
- ☐ B) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in 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, AND **(Please indicate which additional statement applies.)**
- ☐ B1) There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. **(Please attach a copy of the final order.)**
- ☐ B2) The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. **(Please attach a copy of the final order.)**
- ☐ B3) The person or affiliate has not been placed on the convicted vendor list. **(Please describe any action taken by or pending with the Department of General Services.)**

Jennifer McMahon
Bidder's Name/Signature

Hazen and Sawyer
Company

09/10/2025
Date

Jennifer McMahon, PE, Vice President



EQUAL BENEFITS CERTIFICATION FORM FOR DOMESTIC PARTNERS AND ALL MARRIED COUPLES

Except where federal or state law mandates to the contrary, a Contractor awarded a Contract pursuant to a competitive solicitation shall provide benefits to Domestic Partners and spouses of its employees, irrespective of gender, on the same basis as it provides benefits to employees' spouses in traditional marriages.

The Contractor shall provide the City and/or the City Manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the Contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the City Manager has received a complaint or has reason to believe the Contractor may not be in compliance with the provisions of this section. Records shall include but not be limited to providing the City and/or the City Manager or his/her designee with certified copies of the Contractor's records pertaining to its benefits policies and its employment policies and practices.

The Contractor must conspicuously make available to all employees and applicants for employment the following statement:

"During the performance of a contract with the City of Pembroke Pines, Florida, the Contractor will provide Equal Benefits to its employees with spouses, as defined by Section 35.39 of the City's Code of Ordinances, and its employees with Domestic Partners and all Married Couples".

The posted statement must also include a City contact telephone number and email address which will be provided to each contractor when a covered contract is executed.

SECTION 1 DEFINITIONS

- 1. Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package which may include but is not limited to sick leave, bereavement leave, family medical leave, and health benefits.
- 2. Cash Equivalent** mean the amount of money paid to an employee with a domestic partner or spouse in lieu of providing benefits to the employee's domestic partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse from a traditional marriage.
- 3. Covered Contract** means a contract between the City and a contractor awarded subsequent to the date when this section becomes effective valued at over \$25,000 or the threshold amount required for competitive bids as required in section 35.18(A) of the Procurement Code.
- 4. Domestic Partner** shall mean any two (2) adults of the same or different sex who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained by the employer of at



least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partners who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Pembroke Pines.

5. **Equal benefits** means the equality of benefits between employees with spouses and/or dependents of spouses and employees with domestic partners and/or dependents of domestic partners, and/or between spouses of employees and/or dependents of spouses and domestic partners of employees and/or dependents of domestic partners.
6. **Spouse** means one member of a married pair legally married under the laws of any state within the United States of America or any other jurisdiction under which such marriage is legally recognized, irrespective of gender.
7. **Traditional marriage** means a marriage between one man and one woman.

SECTION 2 CERTIFICATION OF CONTRACTOR

The firm providing a response, by virtue of the signature below, certifies that it is aware of the requirements of Section 35.39 "City Contractors providing Equal Benefits for Domestic Partners and all Married Couples" of the City's Code of Ordinances, and certifies the following (**Check only one box below**):

- ☒ **A.** Contractor currently complies with the requirements of this section; or
- ☐ **B.** Contractor will comply with the conditions of this section at the time of contract award; or
- ☐ **C.** Contractor will not comply with the conditions of this section at the time of contract award: or
- ☐ **D.** Contractor does not comply with the conditions of this section because of the following allowable exemption (**Check only one box below**):
- ☐ **1.** The Contractor does not provide benefits to employees' spouses in traditional marriages;
- ☐ **2.** The Contractor provides an employee the cash equivalent of benefits because the Contractor is unable to provide benefits to employees' Domestic Partners or spouses despite making reasonable efforts to provide them. To meet this exception, the Contractor shall provide a notarized affidavit that it has made reasonable efforts to provide such benefits. The affidavit shall state the efforts taken to provide such benefits and the amount of the cash equivalent. Cash equivalent means the amount of money paid to an employee with a Domestic Partner or spouse rather than providing benefits to the employee's Domestic Partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee's spouse;



☐ 3. The Contractor is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated supervised or controlled by or in conjunction with a religious organization, association, or society;

☐ 4. The Contractor is a governmental agency;

The certification shall be signed by an authorized officer of the Contractor. Failure to provide such certification (by checking the appropriate boxes above along with completing the information below) shall result in a Contractor being deemed non-responsive.

COMPANY NAME: Hazen and Sawyer

AUTHORIZED OFFICER NAME / SIGNATURE: _____

A handwritten signature in blue ink, appearing to read "Jennifer McMahon", written over a horizontal line.

Jennifer McMahon, PE, Vice President



VENDOR DRUG-FREE WORKPLACE CERTIFICATION FORM

SECTION 1 GENERAL TERM

Preference may be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

IDENTICAL TIE BIDS - Preference may be given to businesses with drug-free workplace programs. Whenever two or more bids that are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drugfree workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

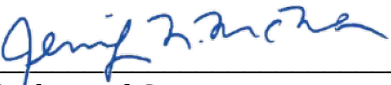
1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after each conviction.
5. Impose a sanction on, or require 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.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

SECTION 2 AFFIRMATION

☒ Place a check mark here only if affirming bidder **complies fully** with the above requirements for a Drug-Free Workplace.

☐ Place a check mark here only if affirming bidder **does not** meet the requirements for a Drug-Free Workplace.

Failure to complete this certification at this time (by checking either of the boxes above) shall render the vendor ineligible for Drug-Free Workplace Preference. This form must be completed by/for the proposer; the proposer WILL NOT qualify for Drug-Free Workplace Preference based on their sub-contractors' qualifications.


Authorized Signature

Jennifer McMahon, PE, Vice President
Authorized Signer Name

Hazen and Sawyer
Company Name



NON-COLLUSIVE AFFIDAVIT

BIDDER is the

Officer

(Owner, Partner, Officer, Representative or Agent)

BIDDER is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

Such Bid is genuine and is not a collusive or sham Bid;

Neither the said BIDDER nor any of its officers, partners, owners, agents, representative, employees or parties in interest, including this affidavit, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other BIDDER, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communications, or conference with any BIDDER, firm, or person to fix the price or prices in the attached Bid or any other BIDDER, or to fix any overhead, profit, or cost element of the Bid Price or the Bid Price of any other BIDDER, or to secure through any collusion conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;

The price of items quoted in the attached Bid are fair and proper and are not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the BIDDER or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

Printed Name/Signature _____
Jennifer McMahon, PE
Jennifer McMahon

Title Vice President

Name of Company Hazen and Sawyer



**SCRUTINIZED COMPANY CERTIFICATION
PURSUANT TO FLORIDA STATUTE § 287.135.**

I, Jennifer McMahon, PE, Vice President, on behalf of Hazen and Sawyer,
Print Name and Title Company Name
certify that Hazen and Sawyer:
Company Name

1. Does not 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.

Hazen and Sawyer
Company Name

Jennifer McMahon, PE
Print Name / Signature

Vice President
Title



E-VERIFY SYSTEM CERTIFICATION STATEMENT (UNDER SECTION 448.095, FLORIDA STATUTES)

1. Definitions:
 - a. **“Contractor”** means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration. “Contractor” includes, but is not limited to, a vendor or consultant.
 - b. **“Subcontractor”** means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.
 - c. **“E-Verify system”** means an Internet-based system operated by the United States Department of Homeland Security that allows participating employers to electronically verify the employment eligibility of newly hired employees.
2. Effective January 1, 2021, Contractors, shall register with and use the E-verify system in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security’s E-Verify System to verify the employment eligibility of:
 - a. All persons employed by a Contractor to perform employment duties within Florida during the term of the contract; and
 - b. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the contract with the City of Pembroke Pines. The Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security’s E-Verify System during the term of the contract is a condition of the contract with the City of Pembroke Pines; and
 - c. Should vendor become the successful Contractor awarded for the above-named project, by entering into the contract, the Contractor shall comply with the provisions of Section 448.095, Fla. Stat., “Employment Eligibility,” as amended from time to time. This includes, but is not limited to registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.
3. Contract Termination
 - a. If the City has a good faith belief that a person or entity with which it is contracting has knowingly violated s. 448.09 (1) Fla. Stat., the contract shall be terminated.
 - b. If the City has a good faith belief that a subcontractor knowingly violated s. 448.095 (2), but the Contractor otherwise complied with s. 448.095 (2) Fla. Stat., shall promptly notify the Contractor and order the Contractor to immediately terminate the contract with the subcontractor.
 - c. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.
 - d. Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination.
 - e. If the contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination.

Hazen and Sawyer

COMPANY NAME: _____

Jennifer McMahon, PE, Vice President

PRINTED NAME / AUTHORIZED SIGNATURE: _____



AFFIDAVIT OF COMPLIANCE WITH HUMAN TRAFFICKING LAWS

In accordance with section 787.06 (13), Florida Statutes, the undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury that:

1. The Affiant is an officer or representative of the Entity entering into an agreement with the City of Pembroke Pines.
2. The Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes, entitled "Human Trafficking".
3. The Affiant is authorized to execute this Affidavit on behalf of the Entity.
4. I understand that I am swearing or affirming under oath to the truthfulness of the claims made in this affidavit and that the punishment for knowingly making a false statement includes fines and/or imprisonment.
5. Pursuant to Sec. 92.525(2), Fla. Stat., under penalties of perjury, I declare that I have read the foregoing affidavit of compliance with Human Trafficking Laws and that the facts stated in it are true.

FURTHER AFFIANT SAYETH NAUGHT.

DATE: 09/10/2025

ENTITY: Hazen and Sawyer

SIGNATURE: Jennifer McMahon

NAME: Jennifer McMahon, PE

TITLE: Vice President

**VENDOR INFORMATION FORM**

MAIN CONTACT INFORMATION			
Company Name (Legal Name as filed with IRS)	Hazen and Sawyer, DPC		
Doing Business As (DBA)	Hazen and Sawyer		
Primary Business Address	4000 Hollywood Boulevard, Suite 750 North		
	City:	Hollywood	
	State:	Florida	Zip: 33021
	Country:	United States	
Remit To Address	Hazen and Sawyer		
	77 Newbridge Road		
	City:	Hicksville	
	State:	NY	Zip: 11801
	Country:	United States	
Order From Address	Hazen and Sawyer		
	4000 Hollywood Boulevard, Suite 750 North		
	City:	Hollywood	
	State:	Florida	Zip: 33021
	Country:	United States	
Foreign Entity (Yes/No)	Yes, Hazen is considered a foreign entity in FL. Hazen and Sawyer is a New York Corporation.		
Telephone Number	(954) 987-0066		
Primary Company E-mail	jmcmahon@hazenandsawyer.com		
Fax	None		
Website	hazenandsawyer.com		
DUNS	06-496-6138		
Independent Contractor (Yes/No)	No		
Identification Number	SSN:	N/A	FID: 13-2904652

GENERAL PAYMENT TERMS		
Discount Percent Defines the discount percentage the vendor extends to your organization.	Days to Discount Number of days which payment must be received to claim the discount percent.	Days to Net Number of days that the vendor allows before requiring net payment.
0%	N/A	30 days

CONTACT # 1	
Contact Name (First & Last Name)	Jennifer McMahon, PE
Description/Title/Position	Vice President and Proposed Project Director
Phone (Voice)	(954) 987-0066
Phone (Text)	(954) 673-2152
Fax	None
E-mail	jmcmahon@hazenandsawyer.com
Opt In (Y/N):	Y

STATE REGISTRATION	
Is your company registered with the State of Florida? (Y/N)	Hazen is authorized to transact business in FL.
If not, what state is your company registered in?	New York

Please attach the print out from <https://dos.myflorida.com/sunbiz/> or the appropriate state showing your active registration and any applicable fictitious names that are registered.

**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.

Print or type. See Specific Instructions on page 3.	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.) Hazen and Sawyer	
	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) _____ Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____ (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. 4000 Hollywood Boulevard, Suite 750 North	Requester's name and address (optional)
6 City, state, and ZIP code Hollywood, FL 33021		
7 List account number(s) here (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									
1	3	-	2	9	0	4	6	5	2

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 	Date 09/11/2025
------------------	---	-----------------

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

State of Florida

Department of State

I certify from the records of this office that HAZEN AND SAWYER, P.C. is a New York corporation authorized to transact business in the State of Florida, qualified on October 18, 1978.

The document number of this corporation is 841657.

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 13, 2025, 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 Thirteenth day of January,
2025*




Secretary of State

Tracking Number: 4346259733CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

State of Florida

Department of State

I certify that the attached is a true and correct copy of the Renewal of Fictitious Name Registration for HAZEN AND SAWYER, which was filed on July 27, 2020, as shown by the records of this office.

The document number assigned to this renewal is G20000089775.

*Given under my hand and the Great Seal of
Florida, at Tallahassee, the Capital, this the
Twenty Eighth day of July, 2020*



Randy R. Lee

Secretary of State

Yuen, Charlene

From: OnlineWebFicRen@dos.state.fl.us
Sent: Tuesday, July 28, 2020 4:05 AM
To: Yuen, Charlene
Subject: Fictitious Name Renewal - G20000089775; 900349114969
Attachments: CC-900349114969-07282020-G15000090047.pdf; 90114969.tif

External Email - think before you click

Subject: HAZEN AND SAWYER

Renewal Number: G20000089775

This will acknowledge the Fictitious Name Registration Renewal for HAZEN AND SAWYER, filed on July 27, 2020.

This renewal continues the original registration number - G15000090047 until December 31, 2025.

Enclosed is the certification you requested.

If the mailing address of this business changes, please notify this office in writing or through the link provided on our website

<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.sunbiz.org%2F&data=02%7C01%7CCYUEN%40HAZENANDSAWYER.COM%7C900971cdf0f34364ca7608d832ccf2f5%7C083fc4d272ad412bae7d6b81b83916dd%7C0%7C1%7C637315203253406606&sdata=35CakevgvXVokCmv2FoMeAxjK4%2F1WsVxMD6%2Bny8pq%2Fc%3D&reserved=0> for Address & FEI/EIN Changes. Please reference the original registration number.

Should you have any questions regarding this matter you may contact our office at (850) 245-6058.

Division of Corporations

APPLICATION FOR RENEWAL OF FICTITIOUS NAME

REGISTRATION# G15000090047

Fictitious Name: HAZEN AND SAWYER

FILED
Jul 27, 2020
Secretary of State
G20000089775

Current Mailing Address:

498 SEVENTH AVENUE
NEW YORK, NY 10018

New Mailing Address:

Current County of Principal Place of Business:

MULTIPLE

New County of Principal Place of Business:

Current FEI Number:

13-2904652

New FEI Number:

Current Owner(s):

Document #: 841657 () Delete
FEI #: 13-2904652
Name: HAZEN AND SAWYER, P.C.
Address: 498 SEVENTH AVENUE
City-St-Zip: NEW YORK, NY 10018

Additions/Changes to Owner(s):

Document #: () Change () Addition
FEI #:
Name:
Address:
City-St-Zip:

I the undersigned, being an owner in the above fictitious name, certify that the information indicated on this form is true and accurate. I understand that the electronic signature below shall have the same legal effect as if made under oath. I am aware that false information submitted in a document to the Department of State constitutes a third degree felony as provided for in s. 817.155, Florida Statutes.

WILLIAM CRAYON

Electronic Signature(s)

07/27/2020

Date

Certificate of Status Requested ()

Certified Copy Requested (X)



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Foreign Profit Corporation
HAZEN AND SAWYER, P.C.

Filing Information

Document Number	841657
FEI/EIN Number	13-2904652
Date Filed	10/18/1978
State	NY
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	08/10/1987
Event Effective Date	NONE

Principal Address

4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Changed: 03/09/2016

Mailing Address

498 Seventh Ave, 11th Floor
New York, NY 10018

Changed: 01/22/2016

Registered Agent Name & Address

CORPORATION SERVICE COMPANY
1201 HAYS STREET
TALLAHASSEE, FL 32301

Name Changed: 06/30/2005

Address Changed: 06/30/2005

Officer/Director Detail

Name & Address

Title VP

Davis, Patrick A
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title VP

Chiriboga, Fernando B
999 Ponce de Leon Blvd.
Suite 1150
Coral Gables, FL 33134

Title VP, Director, Secretary

Haubner, Gary
7870 East Kemper Road
Suite 300
Cincinnati, OH 45249

Title VP, Director

Pitt, Paul
90 NEW MONTGOMERY STREET
SUITE 333
San Francisco, CA 94105

Title VP, Director

Stone, Alan
4011 WestChase Blvd.
Suite 500
Raleigh, NC 27607

Title Senior Vice President, Director

TAYLOR, ROBERT B
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title VP, Treasurer, CFO

Crayon, William
498 Seventh Ave, 11th Floor
New York, NY 10018

Title VP, Director

Carney, Patricia A
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title VP

Page, Jayson J
999 Ponce de Leon Blvd.
Suite 1150
Coral Gables, FL 33134

Title VP

Joykutty, Shajan
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title VP

Muniz, Albert
2101 NW Corporate Blvd.
Suite 301
Boca Raton, FL 33431

Title VP

Dieffenthaler, Andre A.
1000 N. Ashley Drive
Suite 1000
Tampa, FL 33602

Title VP

Wietgreffe, Janeen M.
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title Associate Vice President

Cooke, JOHN PHILIP
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title Associate Vice President

Regalado, Guillermo
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title Associate Vice President

Pfeffer, Kurt A
2101 NW Corporate Blvd.
Suite 301
Boca Raton, FL 33431

Title Associate Vice President

Baar, David A
1000 N. ASHLEY DRIVE
SUITE 1000
TAMPA, FL 33602

Title Associate Vice President

Kish, Christopher L.
999 PONCE DE LEON BLVD
SUITE 1150
CORAL GABLES, FL 33134

Title Associate Vice President

Koroshec, John C.
2101 NW CORPORATE BLVD
SUITE 301
BOCA RATON, FL 33431

Title Associate Vice President

McMahon, Jennifer N.
4000 HOLLYWOOD BLVD.
SUITE 750N
HOLLYWOOD, FL 33021

Title Associate Vice President

Myers, Ervin B., Jr.
2420 S. LAKEMONT AVENUE
SUITE 325
Orlando, FL 32814

Title Associate Vice President

Schroeder, John P.
1000 N. ASHLEY DRIVE
SUITE 1000
TAMPA, FL 33602

Title Manager

Bulman, Gerrit R
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title SENIOR ASSOCIATE

GRIBORIO, ALONSO G
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title ASSOCIATE VICE PRESIDENT

VADIVELOO, ENRIQUE
4000 Hollywood Blvd.
Suite 750N
Hollywood, FL 33021

Title ASSOCIATE VICE PRESIDENT

Castro, Orlando J
999 PONCE DE LEON BLVD.
SUITE 1150
CORAL GABLES, FL 33134

Title ASSOCIATE VICE PRESIDENT

Kremers, Holly P
1000 N. ASHLEY DRIVE
SUITE 1000
TAMPA, FL 33602

Title ASSOCIATE VICE PRESIDENT

Brown, George
4000 HOLLYWOOD BLVD.
750N
HOLLYWOOD, FL 33431

Title ASSOCIATE VICE PRESIDENT

Blanton, Kenneth
2420 S. LAKEMONT AVENUE
SUITE 325
ORLANDO, FL 32814

Title ASSOCIATE VICE PRESIDENT

Curtis, Evan
2101 NW CORPORATE BLVD.
SUITE 301
BOCA RATON, FL 33431

Title ASSOCIATE VICE PRESIDENT

Holmes, Frederick
2420 S. LAKEMONT AVENUE
SUITE 325
ORLANDO, FL 32814

Title ASSOCIATE VICE PRESIDENT

Owen , Christine
1000 N. ASHLEY DRIVE
SUITE 1000
TAMPA, FL 33602

Title ASSOCIATE VICE PRESIDENT

Porter, Jacob
1000 N. ASHLEY DRIVE
SUITE 1000
TAMPA, FL 33602

Annual Reports

Report Year	Filed Date
2023	01/24/2023
2024	01/12/2024
2025	01/13/2025

Document Images

01/13/2025 -- ANNUAL REPORT	View image in PDF format
01/12/2024 -- ANNUAL REPORT	View image in PDF format
01/24/2023 -- ANNUAL REPORT	View image in PDF format
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03/31/2021 -- AMENDED ANNUAL REPORT	View image in PDF format
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01/09/2017 -- ANNUAL REPORT	View image in PDF format
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02/23/2015 -- ANNUAL REPORT	View image in PDF format
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01/26/2012 -- ANNUAL REPORT	View image in PDF format
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Hazen and Sawyer
10-Year Detail of Claims, Arbitrations, Administrative Hearings and Lawsuits

Professional Liability Claims	Description	Date of Action	Date Closed	Outcome	Identification Number	Court
Cecil Dwayne Whitson, Doing Business as Stately Scapes v. Hazen and Sawyer, P.C.	Contractor alleged negligence in connection with the construction of a retaining wall.	6/29/17	02/05/18	Settled	Civil Action No. 3:17-CV-988	United States District Court for the Middle District of Tennessee
The City of High Point, North Carolina v. Suez Treatment Solutions, Inc., Fidelity and Deposit Company of Maryland and CPPE Carbon Process & Plant Engineering, S.A. and Suez Treatment Solutions, Inc., v. Hazen and Sawyer, P.C.	Suez, a contractor for the City of High Point, brought a third party suit against Hazen and Sawyer in connection with H&S' engineering design services for the City.	7/24/19	05/18/22	Settled	Civil Action No. 1:19-cv-540	United States District Court for the Middle District of North Carolina
Close Construction, LLC v. City of Riviera Beach Utility Special District, C Solutions, Mark Drummond v Hazen and Sawyer	C Solutions, engineer for the City of Riviera Beach seeks indemnity from Hazen as its subcontractor.	11/9/20	09/20/21	Settled	Case No. 16 CA 013117 MB-AF	In the Circuit Court of the Fifteenth Judicial Circuit in and for Palm Beach County, Florida
Darline S. Spenser v. McCormick, Time, et al (Hollywood class action)	Hazen was named in a lawsuit filed by Ms. Spencer. The lawsuit did not contain any claims against the Firm. The court dismissed the lawsuit with prejudice.	12/18/23	07/26/24	Dismissed	Case No.23-62214-CIV-DAMIAN/Valle	United States District Court, Southern District of Florida
Lisa & Robert Hoyt, et al., Plaintiffs, individually and on behalf of all other persons similarly situated versus Hazen and Sawyer, P.C., Craven, Thompson & Associates, Inc., and Ric-Man Construction Florida, Inc., Defendants	Plaintiff is seeking relief for damages that occurred during an April 2023 flooding event.	3/28/25	Open	Open	Case Number: CACE-25-004479	In the Circuit Court of the Seventeenth Judicial Circuit in and for Broward County, Florida
Jodie Berman, et al., versus Hazen and Sawyer, P.C., and David Mancini & Sons, Inc.	Plaintiff is seeking relief for damages that occurred during an April 2023 flooding event.	3/28/25	Open	Open	Case Number: CACE-25-004480	In the Circuit Court of the Seventeenth Judicial Circuit in and for Broward County, Florida
Douglas S. Parker and wife, Charlene S. Parker vs. Union County, Garbey Companies, Inc. d/b/a Garney Construction, Hazen and Sawyer, P.C., State Utility Contractors, Inc., HDR Engineering, Inc.of the Carolinas, and cDM Smith, Inc.	Plaintiff alleges property damage resulting from the construction of a new water line.	6/19/25	Open	Open	25CV002955-890	In The General Court of Justice, Superior Cout Division, State of North Carolina, Union County
Steven Gibbs versus Clayton Proprty Group d/b/a Mungo Homes Coastal Division Properties, LLC, Mungo Homes, Inc., Hungo Homes Coastal Division Properties, LLC., MH Coastal, Chalreston County, John Doe Construction Company, Hazen and Sawyer, P.C. d/b/a Hazen and Sawyer Engineering, Edisto Engineers & Surveyors, Inc. d/b/a Edisto Engineering and Surveying, and John Does 1-50.	Plaintiff alleges property damage resulting from the construction of a new housing development	7/7/25	Open	Open	Case No.: 2025-CP-10-03697	In the Court of Common Pleas, Ninth Judicial Circuit, State of South Carolina
General Liability Claims						
Marc Fodera against The City of New York, The New York City Department of Environmental Protection, The New York City Department of Sanitation and Northeast Remsco Construction, Inc. against Hazen & Sawyer, PC, Bidwell Environmental, LLC and Barbaro Electric Co. Inc	Mr. Fodera, an employee of Barbaro Electric, alleges he tipped and fell on a drainpipe at the Gowanus Canal site.	7/26/17	08/02/22	Settled	Index No. 511003/2015	Supreme Court of the State of New York, County of Kings
Michael Patrick Corbett, Jr. and Lisa Corbett against Skanska USA, Inc., Hazen & Sawyer, AECOM USA, Inc., and ARCADIS U.S., Inc	Michael Corbett an employee of the City of New York alleges he contracted a bronchial infection while working at the Croton Filtration Plant from 2012 through February 2016.	2/15/19	06/30/25	Settled	Index no: 21995/2019E	Supreme Court of the State of New York, County of Bronx
Gregory Bowman against City of New York, Skanska-Picone, J.V. and Hazen and Sawyer.	Gregory Bowman an employee of Ward Electric alleges he was struck by a cabinet unit at the 26th Ward WWTP.	11/13/19	Open	Open	Index no: 159692/2019	Supreme Court of the State of New York, County of New York
Michael D'Amato and Josephine D'Amato vs. WDF Development, LLC, WDF, Inc., American Insurance Group, American Insurance Corporation, American International Group, Inc., Insurance Company of the State of Pennsylvania, "John Doe," Lasalle LaSalle & Dwyer, PC, Sean P. Dwyer, Leo Dudin, Anthony Colaizzi, and Hazen and Sawyer.	Michael D'Amato an employee of the City of New York alleges he was caused to trip and fall as a result of the negligence of WDF Development, LLC.	9/30/20	03/08/21	Dismissed	Index No.: 157484/2020	Supreme Court of the State of New York, County of New York
Vincent Calcagno Jr., v. Capry Group, Inc., Delphi Plumbing & Heating, Inc., Hazen and Sawyer, D.P.C., and the City of New York	Vincent Calcagno, an employee of the City of New York alleges he was caused to trip and fall at the Rockaway Water Treatment Control Plant.	12/31/24	Open	Open	Index No.: 723420/2024	Supreme Court of the State of New York, County of Queens



Hazen and Sawyer
4000 Hollywood Boulevard, Suite 750 North
Hollywood, FL 33021 • 954.987.0066

September 16, 2025

City of Pembroke Pines
8300 South Palm Drive
Pembroke Pines, Florida 33025

Re: Power Electrical Engineering Services (RFQ # PSUT-25-10)

Dear Evaluation Committee Members:

Effectively managing aging and outdated electrical and controls systems presents a multi-faceted challenge for municipalities. It demands precision in both planning and execution, as well as a commitment to innovation. Hazen and Sawyer (Hazen) meets this challenge with unmatched industry expertise and creative solutions that improve system performance, ensuring long-term reliability of systems relied on by the City of Pembroke Pines. Our commitment to reliable and innovative methods allows us to provide effective strategies tailored to the specific needs of the City, resulting in sustainable improvements and dependable service for the community.

Hazen is pleased to submit our team's proposal for Power Electrical Engineering Services. It is our understanding that this contract may include the following main projects:

- Floating Photovoltaic System (2025-2026)
- SCADA Lift Station Replacement RTU's & Telemetry (2026-2028)
- Electrical Equipment Replacement Part 1 (2027-2029)
- Holly Lake Electrical Rebuild (2027-2028)
- Future Undetermined WTP Operational Rehab (2029-2031)
- Future Main Gen/Switchgear Replacement (2029-2031)
- Future Undetermined Water Plant Equipment Replacement (2026-2031)

Hazen offers an experienced multidisciplinary team with local expertise in professional engineering, design, permitting, planning, condition assessment, and development of risk modeling tools that incorporate the condition assessment data. We will provide the City with the expertise needed to deliver this project and meet the City's time, quality, and budget requirements.

Our team is uniquely positioned to partner with you, offering:

- **Local Presence** – Our team of LOCAL professionals is prepared to assist the City with any of the services requested for this contract. Our team has worked together to provide a full range of engineering and construction services required for this contract including planning, design, permitting, construction oversight, start-up/operational assistance and grant funding. We are staffed to service the small assignments through large-scale design projects.

- **Innovative Solutions** – Hazen focuses on meeting client project objectives while delivering a product that offers accurate, reliable, and actionable insights. Our strategy integrates industry leading solutions that work today – ensuring cost-effective and future-ready solutions. Hazen has facilitated improvements to multiple utility telemetry systems. For example, Hazen designed improvements for the City of Boca Raton’s 288-site telemetry system using cellular and radio communications and the feature-rich “DNP3” communications protocol. This enhancement proved invaluable for both increased system reliability, reporting and analysis, and ensuring that data could be effectively monitored, managed, and utilized for strategic decision-making.
- **Extensive Regional Experience** – We have successfully completed numerous electrical and controls engineering projects for over 25 cities and municipalities in South Florida, delivering reliable, effective strategies tailored to regional challenges and aging systems. Select clients include City of Plantation, Broward County Water and Wastewater Services, City of Boca Raton, and City of Sunrise.
- **Trusted Long-Term Partner to Pembroke Pines** – With a history of successful project delivery and strong relationships with City staff, Hazen is uniquely positioned to seamlessly execute this continuing contract. Our local presence, deep expertise, and commitment to your success make us the ideal partner to support Pembroke Pines’ wastewater infrastructure goals.

We commit to providing superior service to the City. We carefully selected our project team members specifically to address the unique challenges you face ahead to achieve your goals. Our team is led by Project Manager, **Evan Curtis, PE**, and Project Director, **Jennifer McMahon, PE**. Mr. Curtis has served as Project Manager for various southeast Florida municipalities, including the City of Plantation, City of Boca Raton, and Broward County, facilitating SCADA system upgrades at treatment plants and telemetry systems. Ms. McMahon is a long-time resident of Pembroke Pines, having lived in Pines Village for almost 20 years.

Selecting Hazen enables the City to access local engineers with local knowledge and large-scale experience. Our familiarity with the City’s facilities as well as with the other local water, wastewater and stormwater systems ensures the City that recommendations will be experienced-based and respectful of the City’s budget and anticipated future growth. Together, these leaders will ensure that the City’s assignments are completed on-time and within budget.

We appreciate the opportunity to submit our qualifications and look forward to partnering with you. If you have any questions, please reach out to us at jmcmahon@hazenandsawyer.com or ecurtis@hazenandsawyer.com.

Sincerely,
Hazen and Sawyer



Jennifer McMahon, PE
Vice President/Project Director



Evan Curtis, PE
Associate Vice President/Project Manager

Licensee

Name: **HAZEN AND SAWYER, P.C.**
Rank: **Registry**
Primary Status: **Current**

License Number: **2771**
License Expiration Date:
Original License Date: **11/08/1978**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
44165	Current, Active	TAYLOR, ROBERT B JR	Registry	04/27/2017	Professional Engineer	02/28/2027



Ron DeSantis, Governor

Melanie S. Griffin, Secretary



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

TAYLOR, ROBERT B JR
13393 159TH ST N
JUPITER FL 334780000

LICENSE NUMBER: PE44165
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.



LOCAL VENDOR PREFERENCE CERTIFICATION

SECTION 1 GENERAL TERM

LOCAL PREFERENCE

The evaluation of competitive bids is subject to section 35.36 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with either of the following objective criteria as of the bid or proposal submission date stated in the solicitation. A local business shall be defined as:

1. "Local Pembroke Pines Vendor" shall mean a business entity which has maintained a permanent place of business with full-time employees within the City limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the City of Pembroke Pines.

OR;

2. "Local Broward County Vendor" shall mean or business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Broward County or the city within Broward County where the business resides.

A preference of five percent (5%) of the total evaluation point, or five percent (5%) of the total price, shall be given to the **Local Pembroke Pines Vendor(s)**; A preference of two and a half percent (2.5%) of the total evaluation point for local, or two and a half percent (2.5%) of the total price, shall be given to the **Local Broward County Vendor(s)**.

COMPARISON OF QUALIFICATIONS

The preferences established in no way prohibit the right of the City to compare quality of supplies or services for purchase and to compare qualifications, character, responsibility and fitness of all persons, firms or corporations submitting bids or proposals. Further, the preference established in no way prohibit the right of the city from giving any other preference permitted by law instead of the preferences granted, nor prohibit the city to select the bid or proposal which is the most responsible and in the best interests of the city.

SECTION 2 AFFIRMATION

LOCAL PREFERENCE CERTIFICATION:

- ☐ Place a check mark here only if affirming bidder meets requirements above as a Local Pembroke Pines Vendor. In addition, the business must attach a current business tax receipt from the City of Pembroke Pines along with any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.
- ☒ Place a check mark here only if affirming bidder meets requirements above as a Local Broward County Vendor. In addition, the business must attach a current business tax receipt from the Broward County or the city within Broward County where the business resides along with any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.
- ☐ Place a check mark here only if affirming bidder does not meet the requirements above as a Local Vendor.

Failure to complete this certification at this time (by checking either of the boxes above) shall render the vendor ineligible for Local Preference. This form must be completed by/for the proposer; the proposer WILL NOT qualify for Local Vendor Preference based on their sub-contractors' qualifications.

COMPANY NAME: Hazen and Sawyer

PRINTED NAME / AUTHORIZED SIGNATURE: _____

Jennifer McMahon, PE, Vice President

Hazen and Sawyer Business Local Business Tax Receipts

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829

VALID OCTOBER 1, 2025 THROUGH SEPTEMBER 30, 2026

Business Name: HAZEN & SAWYER PC

Receipt #: 315-58
Business Type: ENGINEER (PROF ENGINEER-GROUP)

Owner Name: HAZEN & SAWYER PC
Business Location: 4000 HOLLYWOOD BLVD 750N
HOLLYWOOD
Business Phone: 987-0066

Business Opened: 07/16/1993
State/County/Cert/Reg:
Exemption Code:

Rooms

Seats

Employees

11

Machines

Professionals

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
45.00	0.00	0.00	0.00	0.00	0.00	45.00

Receipt Fee 45.00
Packing/Processing/Canning Employees 0.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

HAZEN & SAWYER PC
4000 HOLLYWOOD BLVD #750
HOLLYWOOD, FL 33021

Receipt # 02B-24-00005089
Paid 07/21/2025 45.00

2025 - 2026

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829
VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

Business Name: HAZEN & SAWYER PC

Receipt #: 315-58
Business Type: ENGINEER (PROF ENGINEER-GROUP)

Owner Name: HAZEN & SAWYER PC
Business Location: 4000 HOLLYWOOD BLVD 750N
HOLLYWOOD

Business Opened: 07/16/1993
State/County/Cert/Reg: F2771
Exemption Code:

Business Phone: 987-0066

Rooms

Seats

Employees
11

Machines

Professionals

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
45.00	0.00	0.00	4.50	0.00	0.00	49.50

Receipt Fee 45.00
Packing/Processing/Canning Employees 0.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

HAZEN & SAWYER PC
4000 HOLLYWOOD BLVD #750
HOLLYWOOD, FL 33021

Receipt # 035-24-00000237
Paid 10/17/2024 49.50

2024 - 2025



2024/2025 LOCAL BUSINESS TAX RECEIPT

Business Name: **HAZEN AND SAWYER, PC**

DBA:

Business Location: **4000 HOLLYWOOD BLVD**

Business Category: **SERVICE/LICENSED BUSINESS**

Classification: **Engineer/Consulting**

Tax Basis: **OVER 50 WORKERS**

Account Registration #: **B9020195-2025**

Expiration Date: **9/30/2025**

Tax Rate: **\$700.00**

Updated Business Tax Receipt pending



2023/2024 LOCAL BUSINESS TAX RECEIPT

Business Name: **HAZEN AND SAWYER, PC**

DBA:

Business Location: **4000 HOLLYWOOD BLVD**

Business Category: **SERVICE/LICENSED BUSINESS**

Classification: **Engineer/Consulting**

Tax Basis: **OVER 50 WORKERS**

Account Registration #: **B9020195-2024**

Expiration Date: **9/30/2024**

Tax Rate: **\$700.00**