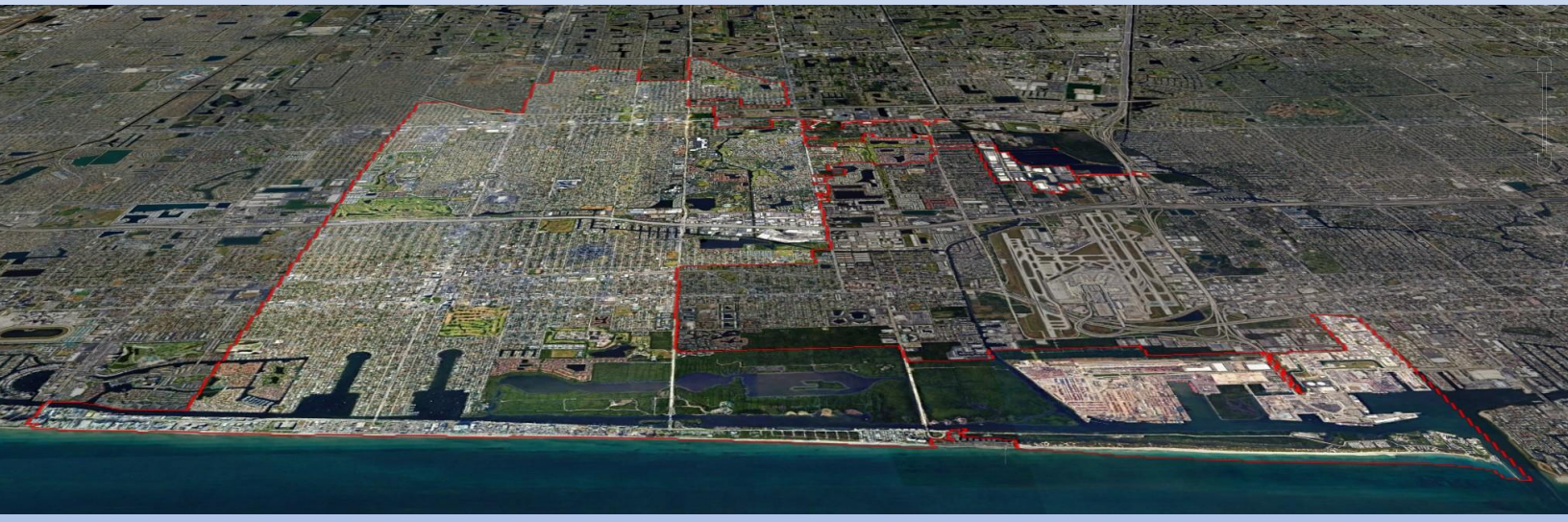
# Proposal

to

City of Hollywood, Florida

Statement of Qualifications
STORMWATER PROGRAM MANAGEMENT
RFQ-320-25-JJ

**Submittal deadline: July 10, 2025, 3:00 pm**



Submitted by

**South Florida Engineering and Consulting LLC**

***Environmental Solutions through Science and Technology***
30 South M Street
Lake Worth Beach, Florida 33460

South Florida Engineering and Consulting LLC

July 10, 2025

Hugo Davalos
Senior Project Manager
City of Hollywood
Public Utilities
1621 North 14th Avenue
Hollywood, FL 33020

**RE: City of Hollywood Stormwater Program Management – RFQ-320-25-JJ**

Dear Mr. Davalos and Evaluation Committee Members,

South Florida Engineering and Consulting LLC (SFEC), in collaboration with SSN Engineering Inc., is pleased to present the Statement of Qualifications for RFQ-320-25-JJ: Stormwater Program Management for the City of Hollywood. . We are enthusiastic about the chance to work alongside the City in bringing its comprehensive Stormwater Master Plan to fruition. SFEC is a local South Florida firm with deep expertise in stormwater program management, flood mitigation, and resilient infrastructure. Our team has a proven track record of managing multi-year capital improvement programs for coastal communities facing similar challenges of Hollywood, including sea-level rise, aging drainage systems, and frequent flooding. SFEC is a multidisciplinary engineering and sciences firm specializing in environmental and water resources engineering, stormwater design, coastal modeling, and permitting. Our company, established in 2011 with headquarters in Lake Worth Beach, is conveniently located just north of Hollywood. This proximity provides us with valuable regional insight and ensures our ability to engage closely and responsively throughout the program. "We understand the significance of this project to the City's future. The Stormwater Master Plan outlines an ambitious 20-year program with approximately $1-2 billion in critical infrastructure improvements (hollywoodfl.org). These range from neighborhood drainage upgrades and pump station installations to seawall enhancements and road elevations to combat tidal flooding. SFEC's experienced professionals have successfully delivered similar projects and secured substantial grant funding on behalf of our municipal clients. We will leverage this experience to help Hollywood protect vulnerable areas like Hollywood Lakes, low-lying neighborhoods, and the barrier island from flooding, while improving water quality and community resilience.

SFEC Team offers Hollywood a dedicated Program Manager who will serve on-site as an extension of your City staff to drive all phases of the Stormwater Program from inception through completion. Backed by a qualified team of engineers, construction inspectors, and outreach

specialists, our Program Manager will ensure each project is planned, designed, permitted, and constructed to the highest standards – on schedule and within budget. We will coordinate closely with City departments, residents, and regulatory agencies to maintain transparency and public trust throughout the program. SFEC is committed to delivering innovative, cost-effective solutions that directly enhance with Hollywood's sustainability and resilience goals.

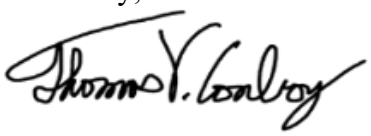
Our team is comprised of civil and environmental engineers, hydrologic & hydraulic modelers, scientists, GIS specialists, and policy experts with deep experience in climate resilience, nature-based infrastructure, and community engagement. We have a proven history of completing grant-funded adaptation and infrastructure planning projects throughout Florida,, collaborating withkey agencies such as the Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), Florida Fish and Wildlife Conservation Commission (FWC), and the U.S. Department of the Interior.

SFEC is a certified small business with the South Florida Water Management District and a certified federal HUBZone firm.

We appreciate you consideraingour qualifications. The following proposal outlines our team, experience, approach, and deep understanding of Hollywood's unique needs. SFEC is ready to immediately deploy program management services, committing all necessary resources to ensure the successful implementation of your Stormwater Master Plan. I, Tom Conboy, will be our Program Manager, and will serve as the main point of contact. Our entire team is enthusiastic about the prospect of partnering with the City on this vital initiative.

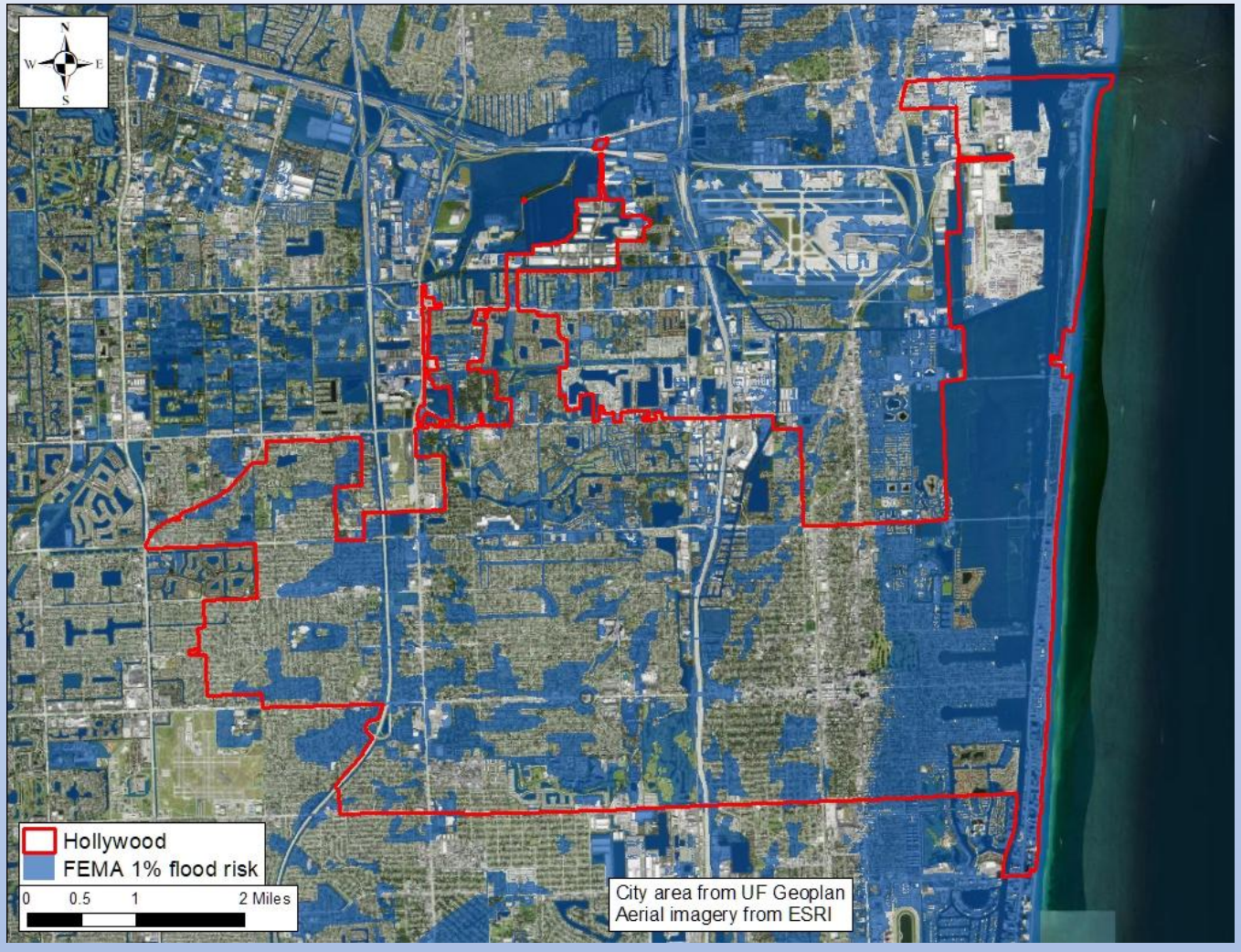
We are excited about the opportunity to support the City's commitment to sustainable infrastructure and climate resilience. Our team is ready to deliver high-quality, data-driven program management services that align with the City's goals and serve the long-term needs of Hollywood's communities. Thank you for the opportunity to submit our proposal. We look forward to the possibility of serving the City of Hollywood. Please feel free to contact me at (561) 412-6997 or tconboy@sfec.us with any questions.

Sincerely,



Thomas V. Conboy, P.E.
SFEC President/Principal Engineer
tconboy@sfec.us

# Tab A: Table of Contents




**South Florida Engineering and Consulting LLC**

***Environmental Solutions through Science and Technology***

# A. Table of Contents

# Tab B: Executive Summary

***Utricularia cornuta***

**South Florida Engineering and Consulting LLC**

***Environmental Solutions through Science and Technology***

# B. Executive Summary

South Florida Environmental Consultants (SFEC), in collaboration with SSN Engineering, Inc., is pleased to submit this Statement of Qualifications in response to RFQ-320-25-JJ for Stormwater Program Management Services for the City of Hollywood. Together, our firms bring a strong and complementary team with extensive experience in stormwater program implementation, drainage and utility design, construction oversight, permitting, and public infrastructure delivery across South Florida. This proposal reflects our combined commitment to supporting the City in the successful execution of its Stormwater Master Plan through responsive project management, technical excellence, and invaluable local insight.

## SOUTH FLORIDA ENGINEERING AND CONSULTING LLC (SFEC)

SFEC is a Florida-licensed engineering firm with over 20 years of experience in stormwater management and civil infrastructure projects. We have assembled a highly qualified team to serve as Hollywood's Stormwater Program Manager, including experts in program administration, drainage design, construction engineering & inspection (CEI), and public outreach. Our team members have led complex, multi-year stormwater programs for cities across South Florida, delivering projects that mitigate flooding, improve water quality, and build resilience against sea-level rise.

Understanding of Hollywood's Needs: City of Hollywood faces urgent stormwater challenges – from coastal neighborhoods like Hollywood Lakes and the barrier island that experience tidal flooding, to inland communities prone to intense rainfall flooding. The recent Stormwater Master Plan Implementation Workshop (April 16, 2025) prioritized dozens of citywide capital projects to be implemented from 2025 through 2035. These include long-term improvements in areas such as the North/South 14th Avenue corridor in Hollywood Lakes, Oakwood Hills in Liberia, and North Central neighborhoods. SFEC recognizes that the successful implementation of these projects will require comprehensive program management, meticulous planning, and coordination among multiple stakeholders. We are prepared to manage everything from initial project scoping and permitting through design oversight, bidding, construction management, and public communication.

### Areas of Expertise

South Florida Engineering and Consulting LLC (SFEC) offers a multidisciplinary team of engineers, scientists, and specialists with deep experience in resilient coastal and waterfront planning, stormwater infrastructure design, and nature-based solutions. Our firm's core areas of expertise align directly with the work required for this project, including:

**Water Resources & Storm Sewer Systems**: Our team has extensive experience in hydrologic and hydraulic modeling, stormwater master planning, and flood mitigation design. SFEC regularly delivers design and analysis for municipal green and gray infrastructure systems in coastal and inland environments. Our work on the SFWMD C-111 South Dade Flood Protection Level of Service (FPLOS) modeling demonstrates our ability to assess climate risks and recommend actionable flood resilience strategies.

**Landscape Architecture & Green Infrastructure**: We develop adaptive design strategies that integrate ecology, placemaking, and flood resilience. Our team has designed urban waterfront improvements and open spaces that manage stormwater, reduce heat island effects, and improve community resilience. Our green infrastructure strategies prioritize stormwater performance, water quality, habitat value, and low maintenance needs while maximizing community access and education opportunities.

**Structural Systems & Civil Engineering**: We provide structural and civil engineering design services for shoreline stabilization, seawalls, docks, outfalls, and site development. Our engineering work integrates both traditional and nature-based protective measures to enhance long-term infrastructure resilience. Our team includes structural and civil engineers experienced in the design and rehabilitation of waterfront and recreational structures, stormwater infrastructure, docks, boardwalks, and seawalls.

In addition to our technical qualifications, SFEC's team has in-depth familiarity with federal and state regulatory frameworks, public engagement strategies, and grant-funded project compliance. We routinely work on projects funded by the Florida Department of Environmental Protection (FDEP), FEMA, and the U.S. Department of the Interior, and understand the administrative, reporting, and deliverable standards these programs require.

*Our multi-disciplinary knowledge of coastal systems, urban design, environmental policy, and infrastructure funding makes us uniquely suited to deliver a waterfront adaptation plan that is technically sound, implementable, and community informed.*

Key Qualifications: SFEC's qualifications align perfectly with the RFQ requirements. We have:

- **Program Management Expertise**: Managed large-scale stormwater improvement programs and master plan implementations for comparable Florida communities, ensuring projects are delivered on schedule and within budget.
- **Technical Excellence**: Licensed Professional Engineers (PE) on staff with deep knowledge of stormwater modeling, pump station and drainage design, exfiltration systems, green infrastructure, and seawall/shoreline protection.
- **Local Experience**: Extensive work in Palm Beach, Broward, and Miami-Dade counties navigating local codes, environmental regulations, and permitting processes. Our

familiarity with the region's flat topography, high groundwater, and hurricane impacts will directly benefit Hollywood.

- **Outreach and Funding Success**: A strong track record of community engagement on flood mitigation projects and success in obtaining grants to stretch local funding. We will help Hollywood maximize outside funding opportunities while building public support for project initiatives.

## SSN ENGINEERING, INC.

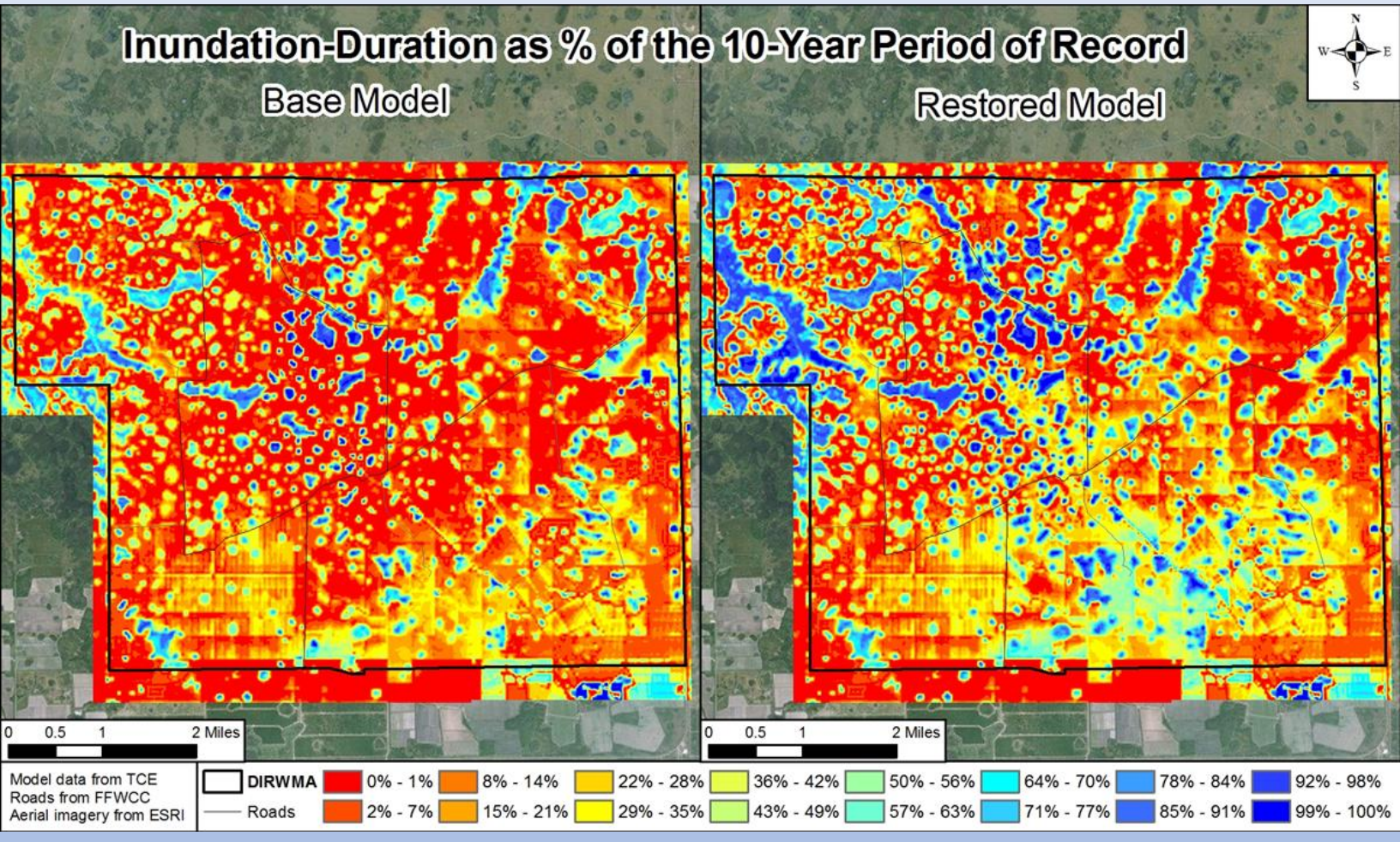
SFEC has selected **SSN Engineering, Inc.**, a Fort Lauderdale-based Florida corporation founded in 2001, as a key subconsultant for the City of Hollywood's Stormwater Program Management contract. SSN is a certified Small Business Enterprise (SBE), Disadvantaged Business Enterprise (DBE), and Minority Business Enterprise (MBE), with over two decades of experience delivering infrastructure projects across South Florida. Their team specializes in *stormwater drainage design, roadway improvements, water and wastewater utilities, utility coordination, and permitting services* – all areas that are central to the successful implementation of Hollywood's Stormwater Master Plan.

SSN's qualifications include prequalification with FDOT District 4 in drainage design (6.3.1), minor highway design (3.1), and utility coordination (6.1). They are accustomed to projects involving complex interagency coordination and permitting through agencies such as *FDOT, SFWMD, FDEP, and Broward County Environmental Protection & Growth Management*. For this contract, SSN will support SFEC with drainage system design for neighborhood CIP and R&R projects, conflict resolution with existing utilities, preparation of permitting documentation, and coordination on infrastructure projects in or near FDOT corridors (e.g., Johnson Street culvert and A1A improvements). Their intimate familiarity with Broward's permitting environment and drainage criteria will help minimize review timelines and streamline construction readiness.

**Commitment**: Upon Selection, the SFEC Team will dedicate a  Program Manager and dedicated support staff to Hollywood for the duration of this contract. We will operate proactively as an extension of City staff, providing turn-key management of the Stormwater Master Plan implementation. Our approach is collaborative, data-driven, and results-oriented, focused on achieving the City's goals of minimizing flooding risk, complying with regulations, and enhancing resident's quality of life.

In summary, SFEC is the ideal partner to effectively implement Hollywood's stormwater capital program. We possess the **precise combination of experience, local insight, technical prowess, and stakeholder understanding** to guarantee the Stormwater Program's overwhelming success for the City.

# Tab C: Qualification and Experience




**South Florida Engineering and Consulting LLC**

***Environmental Solutions through Science and Technology***

## C. Firm Qualifications and Experience

Basic Company Information: South Florida Environmental Consultants, Inc. (SFEC) is a Florida corporation (Professional Engineering Firm) established in 2005. SFEC is registered as a legal entity in Florida and authorized to provide engineering services. Our headquarters is located in Lake Worth Beach, Florida, (email: info@sfec.us; phone: (561) 686-2281). The firm's primary contact for this proposal is Tom Conboy, P.E., Principal and company owner (email: tconboy@sfec.us; phone: (561) 412-6997). SFEC currently employs approximately 25 staff members, including 8 licensed Professional Engineers (P.E.), as well as engineering interns, certified inspectors, CAD technicians, and support personnel.

**Years of Experience**: SFEC has over 20 years of experience delivering civil engineering and environmental consulting services, with a strong specialization in stormwater management. Our firm's core competencies include stormwater master planning, hydrologic/hydraulic modeling, design of drainage infrastructure (pipes, pump stations, retention facilities, green infrastructure), coastal flood mitigation, construction management (CEI), and program management for capital improvement projects. We have successfully completed hundreds of projects across South Florida, ranging from neighborhood drainage improvements to large-scale, multi-jurisdictional flood control programs.

**Relative Size and Capacity**: As a small business firm, SFEC offers the City the personalized service and agility of a smaller consultant combined with the technical expertise and resources of a larger firm. We are large enough to simultaneously manage multiple projects under this program (with the ability to scale up staff as needed), yet small enough that our firm's principals and senior experts will be directly involved in Hollywood's contract. SFEC's organizational structure is lean and efficient, enabling quick decision-making and a hands-on approach by leadership. All key personnel proposed for this project are based in South Florida and can be on-site at Hollywood on short notice.

**Firm Qualifications for Scope**: SFEC meets all minimum qualifications in the RFQ. We have a well-established track record in stormwater program management and possess the full range of skills required:

- *Program/Project Management*: SFEC has served as the prime consultant managing comprehensive stormwater improvement programs for multiple cities (examples below). We are experienced with scheduling and budgeting large portfolios of projects, quality control, and Commission-level reporting.
- *Engineering Design & Analysis*: Our team has designed and reviewed numerous drainage projects including pump stations, force mains, gravity sewer and stormwater pipes, exfiltration trenches, dry retention areas, and tide control structures. We maintain cutting-edge modeling capabilities (ICPR, SWMM, HEC-RAS, DHI Mike models) to support design and scenario analysis.

- *Construction Oversight (CEI)*: We have certified CEI professionals who have overseen construction of stormwater infrastructure, ensuring contractors' compliance with plans/specs, safety standards, and minimal community disruption.
- *Public Outreach*: SFEC understands that public engagement is crucial for stormwater projects, which often impact residents' daily lives. Our staff includes outreach specialists experienced in conducting public meetings, preparing informative project materials, and handling citizen inquiries during construction.
- *Regulatory Compliance*: We are highly familiar with South Florida permitting requirements – including Broward County Environmental Permitting, South Florida Water Management District (Environmental Resource Permits), Florida Department of Environmental Protection (NPDES, coastal permits), and FDOT drainage connection and work permits. We have successfully guided projects through complex regulatory approvals and inter-agency coordination.
- *Grants and Funding Support*: SFEC has assisted clients in securing and managing grants such as FEMA Hazard Mitigation grants, State Resilient Florida grants, and Community Development Block Grants for stormwater improvements. We are adept at preparing cost-benefit analyses and grant applications to leverage outside funding.

## RELEVANT PROJECT EXPERIENCE

SFEC's experience includes several complex, multidisciplinary projects that closely parallel the goals and methods required for the City of Hollywood's Stormwater Program Management. The three projects highlighted in our each demonstrate our capacity to integrate technical modeling, public engagement, and forward-thinking infrastructure strategy. The following are examples of SFEC's past projects that demonstrate our capability to deliver the services requested by the City of Hollywood. These projects were complex, multi-year stormwater initiatives involving program management, design, and construction oversight, and extensive coordination – closely aligning with Hollywood's needs:

**City of Aventura – Vulnerability Assessment (2024-ongoing)**: Served as a technical lead and provided management support and engineering services for the City of Aventura citywide stormwater resiliency program. Responsibilities included full project coordination, QA/QC management, progress reporting, and facilitation of recurring stakeholder and City staff meetings to ensure alignment with project objectives. Supported the development of a Quality Assurance and Quality Control Plan, conducted a formal project kickoff meeting, and maintained monthly coordination with City personnel to guide deliverable preparation, permitting strategy, and infrastructure review. Led the identification of statutory data standards including sea level rise scenarios (NOAA 2017) and planning horizons for 2040 and 2070, consistent with Resilient Florida Program guidelines. The project encompassed a comprehensive 10-task scope over an 18-month timeline and focused on improving system-wide stormwater resilience, incorporating sea level rise, future storm scenarios, and climate-informed design criteria into the City's planning framework. Supported the formation and engagement of a multi-sector Steering

Committee comprised of up to ten representatives from local government, infrastructure owners, and community stakeholders. Managed scheduling, materials development, and documentation for all committee meetings. Coordinated the identification and classification of critical and regionally significant infrastructure assets across four categories as defined in F.S. 380.093: transportation systems, critical infrastructure, emergency/community facilities, and natural/cultural resources. Conducted data acquisition, developed GIS layers with metadata, and performed data gap analysis with corresponding recommendations to address deficiencies. Organized and oversaw public outreach meetings to share draft Vulnerability Assessment findings with residents and stakeholders, solicit input on local priorities and assumptions, and facilitate interactive exercises to identify focus areas for adaptation strategy development. Managed preparation of all outreach materials, including social media posts, invitations, sign-in sheets, presentations, and graphics. Final deliverables included a compliant Vulnerability Assessment Report with maps and tables documenting flood impacts, a finalized prioritized list of vulnerable assets, geospatial datasets with embedded metadata, and a signed Vulnerability Assessment Compliance Checklist Certification. Additionally, supported the update of the City's Stormwater Master Plan by integrating findings from the vulnerability assessment and exposure analysis into hydraulic modeling and infrastructure evaluation. Recommendations addressed existing system deficiencies, updated design criteria, and incorporated resilient and nature-based solutions to improve flood protection, water quality, and long-term sustainability of the City's stormwater infrastructure.

*The project demonstrates comprehensive experience in managing and implementing a municipal stormwater master plan, including regulatory compliance, vulnerability assessment, stakeholder coordination, public outreach, hydraulic evaluation, GIS-based asset inventory, and development of adaptation strategies—all of which are core components of an effective stormwater program. The project also aligns with state and grant-funded resilience planning efforts, similar to those likely to be undertaken in Hollywood.*

**City of Fort Lauderdale – Stormwater Master Plan Implementation (2018–Present)**: SFEC is the prime consultant assisting Fort Lauderdale in executing its Stormwater Master Plan and associated bond-funded capital projects. In this ongoing role, we manage a portfolio of 15+ neighborhood drainage improvement projects from inception through construction. Key tasks include developing project scopes and budgets, procuring and managing design sub-consultants, and overseeing construction contractors. SFEC's team has implemented new tidal flood control measures (e.g. flap gates and one-way tidal valves on storm outfalls along the Intracoastal), designed and constructed stormwater pump stations in low-lying communities (River Oaks and Edgewood neighborhoods), and added over 4 miles of exfiltration trench and large diameter drainage pipes to increase capacity. We coordinate inter-departmental efforts, aligning stormwater projects with the City's road resurfacing and water-sewer pipe replacement schedules to minimize re-work and disruption. SFEC also prepares regular program status updates and presentations to the City Commission and has helped Fort Lauderdale secure over $10 million in state resilience grants for these projects.

**C-111 South Dade Flood Protection Level of Service (FPLOS) Assessment**: This large-scale modeling effort for the South Florida Water Management District involved high-resolution hydrologic and hydraulic simulation of current and future flood scenarios under various sea level rise projections and climate conditions. The project focused on infrastructure performance across a vast watershed and tested multiple adaptation strategies to support long-range water management and flood protection decisions.

SFEC served as the City Engineer's stormwater program consultant to implement a series of flood mitigation and drainage infrastructure upgrades. We provided end-to-end project management for multiple construction projects in low-lying areas of Hallandale Beach. Notably, SFEC oversaw a major stormwater system overhaul that included constructing a new stormwater pumping station, rehabilitating and cleaning over 8,000 linear feet of drainage pipe, and replacing or upgrading dozens of catch basins and manholesqualitycities.com. We ensured these projects were completed on schedule and coordinated closely with residents and businesses to manage road closures and maintain access. SFEC also assisted the City in grant administration, helping to manage FEMA funding for a Southwest Drainage Improvement project and ensuring compliance with all reporting requirements. The result of these efforts was a measurable reduction in flooding occurrences during heavy rain events, improving safety and quality of life for the affected neighborhoods.

*The project highlights SFEC's dual experience in both advanced hydrologic and hydraulic modeling for regional-scale flood resilience planning and in the hands-on implementation of neighborhood-scale stormwater infrastructure improvements. The modeling component demonstrates the firm's technical capacity to simulate current and future flood scenarios, evaluate sea level rise impacts, and support long-term adaptation planning—key elements of any forward-looking municipal stormwater program. Additionally, SFEC's role in Hallandale Beach showcases full project lifecycle management, including pump station construction, drainage system rehabilitation, community coordination, and FEMA grant administration. These activities directly align with the operational, technical, and funding aspects of stormwater program management needed to support the City of Hollywood's goals.*

**City of Opa-locka Pump Station Rehabilitations (2012-2014)**

SSN Engineering, LLC rehabilitated pump stations for Opa-locka. SSN Engineering provided services for the rehabilitation of City of Opa-locka pump station 10. Estimated the current sewer demand based on the current land use. Analyzed the entire sewer system network associated with the pump station no. 10 using the SewerCAD software to identify if the sewer systems downstream the proposed pump station no. 10 have adequate capacity to handle the new demand. Prepared construction plans, obtained construction permits. Based on DERM NAPOT report, Pump Station 10 runtime is more than 12 hours per day, which is more than 10 hours per day and the station is in moratorium. The pump were selected to meet DERM and EPA criteria to release the station from moratorium. This project also includes a design of 2000 LF of DIP Force Main along Perviz Ave. Attended meetings at the City of Opa-locka, DERM, and local jurisdictions

during design and construction phase. Prepared preliminary opinion of probable costs (OPC) and prepared bid plans set. SSN Engineering had provided Civil Engineering design and permitting services for the City of Opa-locka pump station no. 5. The pump station was reconstructed with larger wet well and pumps to meet the new sewer demand. Analyzed the entire sewer system network associated with the pump station no. 5 using the SewerCAD software to identify if the sewer systems downstream of the proposed pump station no. 5 have adequate capacity to handle the new flow. Attended meetings at the City of Opa-locka, DERM, and local jurisdictions during design and construction phase. Prepared preliminary opinion of probable costs (OPC), prepared bid plans set, pump station calculations, reviewed shop drawings, response to RFIs, attended construction testing including pump station startup, reviewed as-built and certified the for operation.

*These projects highlight SSN Engineering's capabilities to implement infrastructure projects for municipal sewer throughout the design and construction phase.*

*Opa-locka sewer pump station rehabilitation.*

These examples illustrate the SFEC team's proficiency to deliver complex stormwater programs comparable to Hollywood's needs. In each case, our involvement spanned planning, design oversight, stakeholder coordination, and construction management – very much mirroring the scope envisioned in RFQ-320-25-JJ. Our firm's successful track record and depth of experience will be directly applied to benefit the City of Hollywood's Stormwater Program Management.

Together, these projects collectively underscore SFEC's capability to perform technically challenging work while simultaneously fostering community engagement and achieving long-term resilience. Their scale, complexity, and public value directly demonstrate our relevance to Hollywood's Stormwater Program Management needs.

## PROGRAM-LEVEL IMPLEMENTATION EXPERTISE

SFEC has provided stormwater management program support, including H&H modeling, water quality modeling, stormwater management design, permitting, cost estimation, bid support, and construction management services support for St. Lucie County Water Quality Division since August 2022 under three contracts. SFEC designed and permitted both the Ancient Oaks Stormwater Treatment Area Project and the Indrio Savannahs Wet Pond Project, both stormwater management projects aimed at improving water quality for the St. Lucie River Estuary and the Indian River Lagoon, respectively. Both projects also help to improve flood resilience within the watersheds. SFEC managed and implemented all aspects of the design services for both projects, including environmental/hydrologic assessment, survey, geotechnical services, design, environmental resources permitting, and federal 404 permitting. SFEC also managed and implemented stakeholder engagement and public outreach for the projects. Upon completion of design and permitting, SFEC provided bid/cost estimation support (OPC- Opinion of Probable Construction Costs) and project implementation support through the end of construction. SFEC recently completed a review of the contractor's as-builts for the Ancient Oaks Stormwater Area construction, and we are currently supporting the County with final phases of construction for the Indrio Savannahs project.

The above two completed projects combined with ongoing construction management services (CEI/CMS) support for the River Park Baffle Boxes Projects (phases I and II, 8 baffle boxes combined), demonstrate SFEC's ability to manage and support multiple simultaneous projects for the owner and provide Program Management services for the implementation of SWMP and engineering support for the operation and maintenance of City's Hollywood's stormwater system.

## FIRM AND TEAM QUALIFICATIONS

South Florida Engineering and Consulting LLC (SFEC) is a multidisciplinary civil and environmental engineering firm headquartered in Lake Worth Beach, Florida. SFEC brings together civil and environmental engineers, hydrologic and hydraulic (H&H) modelers, scientists, technical experts, and policy experts under one roof, with a shared focus on science-driven, implementable solutions for resilient communities.

We specialize in H&H modeling, stormwater infrastructure, green and nature-based solutions, and environmental permitting – all directly aligned with the goals of Hollywood's Stormwater Program Management. SFEC has supported numerous public sector projects throughout Florida and understands the technical, regulatory, and community engagement dimensions of adaptation planning.

Our team includes professionals who have worked with the Florida Department of Environmental Protection (FDEP), Federal Emergency Management Agency (FEMA), South Florida Water Management District (SFWMD), and numerous local governments to design flood mitigation strategies, develop ecosystem restoration plans, and create infrastructure solutions that

account for climate change driven challenges. In addition to technical depth, SFEC's experience includes public engagement and outreach coordination, data visualization, and stakeholder presentations.

## Organizational Profile and Project Team Qualifications

SFEC's Team has organized a dedicated project team for Hollywood's Stormwater Program. The team will be led by a highly experienced Program Manager reporting directly to the City's project management staff. Supporting the Program Manager are discipline leads for Design/Engineering, Construction Oversight (CEI), and Public Outreach. This core team will be augmented by additional engineers, inspectors, and technical specialists from SFEC as needed to handle multiple projects concurrently. SFEC's Principal, Tom Conboy, P.E., will serve as Principal-in-Charge, providing executive oversight and ensuring the full resources of the firm are available to the City. The outline below describes our general team structure:

- Principal-in-Charge (Tom Conboy, P.E.)
    - Program Manager (lead): *day-to-day program administration, client liaison, overall responsibility for all tasks and deliverables*.
    - Senior Stormwater Engineer: *technical lead for design reviews, modeling, and engineering solutions*.
    - CEI Manager: *construction phase leader, oversees inspectors and contractor compliance*.
    - Public Outreach Lead: *Community engagement coordinator for meetings, workshops, and communications*.
    - Support Staff: *project engineers, CAD designers, field inspectors, grant specialists, etc*.

This structure ensures clear lines of responsibility while covering all aspects of the scope of work.

Additional Staff Resources: In addition to the key individuals above, SFEC will utilize its broader team to support Hollywood as needed. This includes CAD designers to produce plans and figures, field engineers for data collection, environmental scientists for permit support, and a dedicated Grant Specialist who will assist the Program Manager in preparing grant applications and managing grant compliance/reporting (aligning with Task 10 of the scope regarding grants and appropriations support). Our team is scalable – if the City initiates multiple projects simultaneously, SFEC will assign additional qualified personnel (including potential sub-consultant staff) to ensure all projects receive timely attention and expert oversight.

With this organizational setup, SFEC's team covers every discipline required for a successful Stormwater Program. Each member brings specialized experience and a clear role, but also a history of working collaboratively as a unit. We have defined communication protocols internally (weekly team coordination meetings led by the Program Manager) to ensure seamless integration

of efforts across planning, design, construction, and outreach tasks. The SFEC team is ready to commence work immediately and integrate with City staff to achieve Hollywood's objectives.

## SUBCONSULTANT

SFEC will serve as the prime consultant and single point of responsibility, managing coordination, compliance, and quality assurance across the entire team. SFEC has the capability to self-perform the majority of the required services; however, we will utilize specialized subconsultants for certain tasks to enhance our team's strengths.

**SSN Engineering Inc.** will complement the SFEC team with *civil/drainage design, utility coordination, and permitting support*. SSN Engineering, Inc. is a Florida-certified minority-owned engineering firm based in Miami, as a key subconsultant for the City of Hollywood's Stormwater Program Management contract. With over two decades of experience, SSN specializes in **civil engineering, stormwater drainage design, roadway improvements, water and wastewater infrastructure, and permitting** – making them well-aligned with the goals of the City's comprehensive Stormwater Master Plan implementation.

SSN will support SFEC on drainage system design and modeling, utility coordination with local and state agencies, and preparation of permit-ready construction documents. Their deep experience with **FDOT District 4**, **SFWMD**, **FDEP**, and **Broward County Environmental Protection** ensures that permitting processes are well-understood and efficiently managed. Their familiarity with the stormwater infrastructure needs of coastal and low-lying municipalities such as Hollywood positions them to contribute immediately to project delivery.

SSN is known for **collaboration, technical thoroughness, and responsiveness** in municipal and transportation infrastructure work. Their expertise will be integral to implementing stormwater improvements efficiently throughout Hollywood, particularly where coordination with FDOT, complex permitting, and public-facing design is required.

*Both firms will maintain tight coordination, unified quality control, and joint accountability for deliverables*.

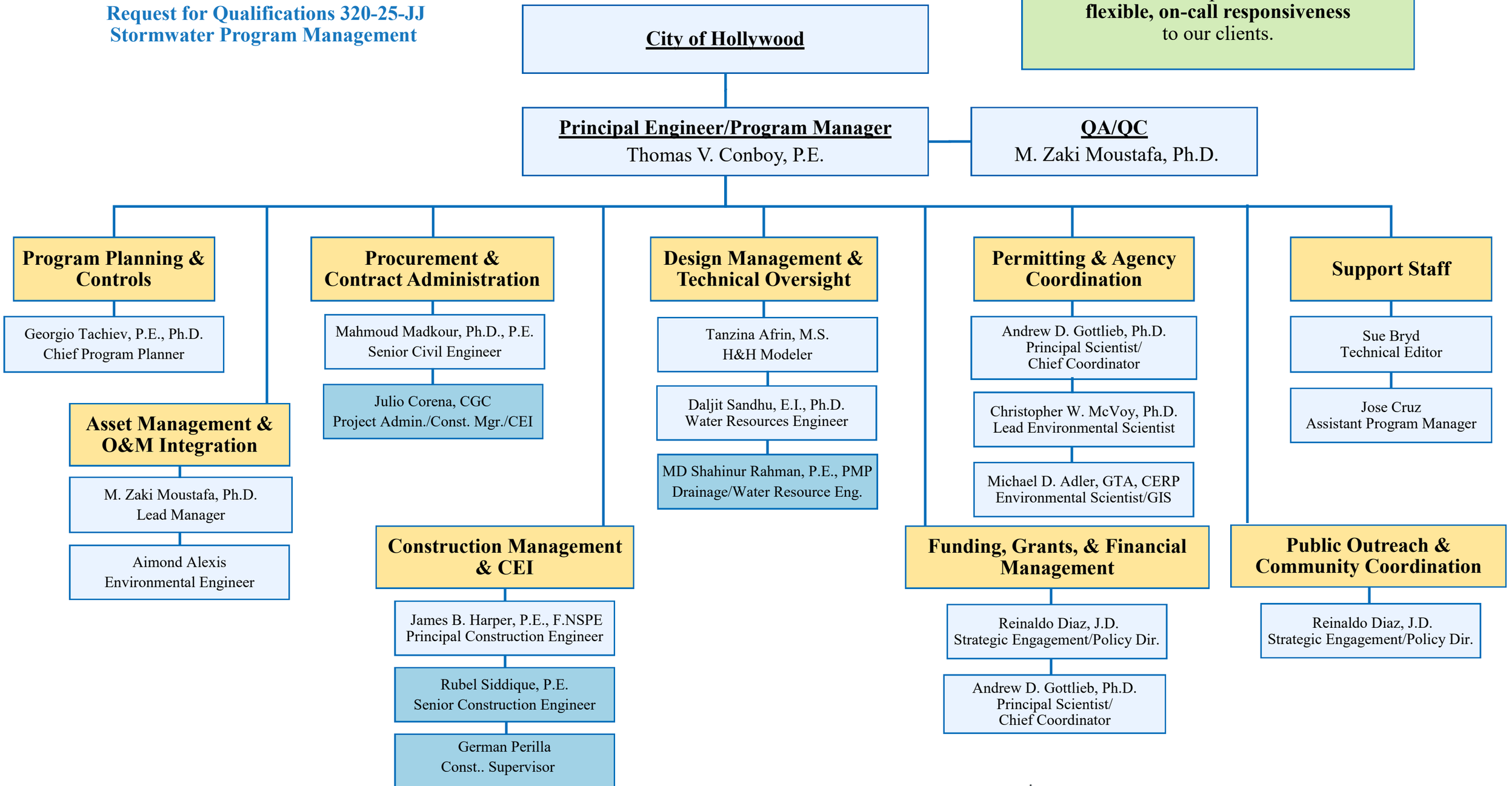
## ORGANIZATIONAL CHART

*Organizational chart is attached to the following page.*

# Organizational Chart for Proposed Team

**Request for Qualifications 320-25-JJ**
**Stormwater Program Management**

SFEC and our team pride ourselves on our **flexible, on-call responsiveness** to our clients.




South Florida Engineering & Consulting

SSN ENGINEERING

## Key Personnel Profiles

SFEC's management, QA/QC, and communication processes are developed to be a dependable and thoughtful process that ensures consistent quality deliverables. SFEC President and Principal Engineer, Thomas Conboy, P.E. is the proposed Program Manager for this contract supported by M. Zaki Moustafa, Ph.D. for QA/QC. The SFEC team then has Resource Officers that help coordinate technical resource staff. Resources Officers work with local project managers and technical leads to identify and ensure allocation of all necessary staffing resources for the project.

SFEC brings a truly *multidisciplinary team* that integrates engineering expertise, scientific and ecological insight, and deep knowledge of policy, regulation, and local government strategy. Our engineers and modelers deliver technically rigorous solutions, while our environmental scientists ensure those solutions are grounded in ecosystem function and long-term sustainability. We also bring first-hand experience in municipal governance and public funding strategy, enabling us to approach challenges in a way that is both adaptive and implementable. This integrated perspective allows us to navigate complexity, align with agency and regulatory frameworks, and develop infrastructure solutions that are technically sound, environmentally responsible, and strategically positioned for funding and long-term success.

*Key personnel resumes are attached to the following pages*.

**Thomas V. Conboy, P.E.**
**President / Program Manager**

Mr. Conboy is the President and Principal Engineer of South Florida Engineering and Consulting LLC. An internationally-experienced Professional Engineer and Project Manager, he advised the Water Sanitation and Hygiene Program in Kenya; and led the initiative to develop a geospatial database. His accomplishments include sizing reservoir storage and optimizing operations for the C-44, Ten Mile Creek and C23/24 Reservoirs/STA's for the IRL South component of CERP. Mr. Conboy served as Project Manager for the Loxahatchee River Preservation Initiative in Florida. He provided engineering support, performed hydrologic modeling, and developed stage-flow curves for the Restoration Plan for the Northwest Fork of the Loxahatchee River. [Relevant Experience: 30 years]

**Education**
**Bachelor of Science**
**Environmental Engineering**
**University of Florida**

**Registration**
**Professional Engineer**

**Leadership**
**NSPE Delegate Professional Engineers in Construction Executive Board**

**Memberships**
**Society of American Military Engineers (SAME)**

**Principal Engineer**
**South Florida Engineering and Consulting LLC**

- **FPLOS (Flood Protection Level of Service) Assessment for Current and Future Conditions in C-111 Coastal, C-111 South, C-111 AG, Model Land, and L-31NS Watersheds, Miami-Dade County, Florida.** Project manager- Currently involved in the hydrological and hydraulic model development for the project area. The primary objectives are to develop and calibrate hydrologic and hydraulic models for the watersheds C111 South, C-111 Coastal, C-111 AG, Model-Land, and L-31NS, and to use those models in the evaluation of the FPLOS for existing and future conditions. Evaluations were assessed using six (6) performance metrics defined by the District. ($596,270.91)
- **Loxahatchee River Watershed Restoration Project, Flow-Way 3, Martin County, Florida.** SFEC Project Manager - The hydraulic modeling tasks includes the development of seven different hydraulic models and analysis of the existing and proposed hydraulic structures to determine the channel hydraulics, flooding, and backwater effects in support of structure design. As a sub-consultant to WSP, SFEC is responsible for the development and analysis of seven detailed H&H models for the project areas included within the Flow Way 3 and used these models to evaluate extension and proposed conditions. The detailed hydraulic modeling effort focused on channel hydraulics, backwater effects and structure design. ($721,158)
- **SFWMD Ecological, and Environmental Scientific and Technology Support Services** Program Manager for a work order-

based contract with SFWMD not to exceed $15,500,000. This was a 5-year professional services contract in which SFEC has been reselected for up to 5 more years. SFEC has received 13 work orders and provided Ecological and Scientific Professional Service to SFWMD.

- **SFWMD 4600003017 WO No. 1 G-716 Divide Structure.** Review and edit Stormwater Treatment Area 1 East G-716 Divide Structure Design and Technical Specifications. Worked with Dr. Checks to resolve comments and issues. ($549,827)
- **SFWMD 4600003017 WO No. 8 Future Rainfall Estimates.** Determination of future rainfall frequency estimates for planning flood protection projects. Reviewed rainfall frequency approaches in South Florida and made recommendations to SFWMD for their Level of Service modeling inputs. ($24,966)
- **USACE FWC East Lake Tohopekaliga EIS.** Directed the NEPA process and development of the EIS. Provided project management and engineering support. ($353,179)
- **FWC Corbett WMA Hydrologic Assessment.** Direct restoration and management strategies to reestablish sheet flow and rainfall-driven hydroperiods to improve terrestrial and aquatic habitat function of 94 square mile wildlife management area. ($600,000)
- **Bonita Springs Woodchip Bio-Reactor Pilot Project.** Oversee chemical and biological summaries, and implement Everglades West Coast Basin Management Action Plan pilot project to improve Imperial River water quality. Project Budget: $99,661
- **Palm Beach County C-51 Sediment Trap.** Provided direction and oversight to collect structure stage and canal to estimate sediment loading to estimate future LOS for flood protection. ($76,814)
- **Dinner Island Ranch WMA Hydrologic Assessment**. Directing the development of restoration strategies and management activities that reestablish sheet flow and rainfall driven hydroperiods in order to improve the function of both terrestrial and aquatic habitats within the 34 square mile wildlife management area. Project Budget: $334,000.

**M. Zaki Moustafa, Ph.D.**
**QA/QC / Scientist**

Dr. Moustafa is an expert in hydrodynamic and water quality modeling, WQ sciences, data analysis/modeling, water resources engineering, environmental science, wetland ecology, and restoration modeling. He applied models (EFDC, ICM-CEQUAL, HSPF and BASINS) to a gamut of projects requiring EIS, EA and specialized experience (water quality, sediment transport, wetlands, Stormwater Treatment Areas (STAs), Florida & Biscayne bays). Dr. Moustafa spent the last 30 years working on STAs design/P optimization. Analyzed large STA WQ databases; provided the methodology to determine & evaluate phosphorus removal efficiencies in STAs; selected optimum locations for inflow to WACA2A & STA discharge outflow; reduce monitoring costs while achieving permit requirements; developed project technical reports; and all published journal articles focused on practical designed methods to optimize P retentions in Wetlands/STAs and developed the 1st Wetland Water Quality Model (Hydro & WQ).

**Education**

Ph.D. Oceanography, Hydrodynamic & Water Quality Modeling

Virginia Institute of Marine Science (VIMS), School of Marine Science, College of William & Mary

**Memberships**

Society of American Military Engineers (SAME)

Advancing Earth and Space Science

American Society of Geophysical Union (AGU)

Developed large and small field scale research programs to determine vegetation resistance and internal hydraulics in large, constructed wetlands. The focus of this approach is to send pre-selected discharge waves with pre-selected frequencies and amplitudes through large STAs and small wetlands, monitor water pressure changes in the interior, and determine vegetation resistance as a function of water depth & slope and plant density; first of its kind. Results of this experiment were used to provide guidance on how to design & optimize P retention in STAs. He applied hydrodynamic and WQ models for mixing zone permits, TMDL and regulatory compliance evaluation. Permit Experience includes, NPDES, 404, TMDLs and PRI, Extensive contract & personnel management experience. [Relevant Experience: 35 years] https://www.researchgate.net/profile/Zaki-Moustafa-2

**Principal Modeler / Scientist**
**South Florida Engineering and Consulting LLC:**

- **Sustainable Landscape and Treatment in a Stormwater Treatment Area Study** The overarching goal of this project is to develop the relationships among "*human-controlled*" hydraulic parameters to optimize P uptake in existing STAs. P removal in STAs is accomplished via two processes: 1) biological /chemical processes that remove P from the flow path, which is not in "*human-control*," and 2) physical processes of transport and mixing (diffusion & dispersion) that are in "human-control" & determines wetland's area that can be used to improve P retention and sustain healthy vegetation community. This project intends to achieve sustainability of low P concentrations & healthy vegetation, while maintaining controllability of flow, water depth, and water slope in STAs.

**Youth Sports**
22-years volunteer Soccer Coach with the American Youth Soccer Organization (AYSO) and seven years soccer coach for special needs Children (VIP) in West Palm Beach.

- **C-111 Level of Service Assessment for Current and Future Conditions West Palm Beach, Florida** QA/QC Officer - assisted SFWMD in conducting system-wide review of water management infrastructure to determine the flood protection level of service being provided by existing infrastructure under current and future conditions. Major work products from this study are additional model development and conceptualization; calibrated and validated hydrologic and hydraulic models; assessment of existing level of flood protection and of future sea level scenarios flood protection; and Storm Surge and Tidal Boundary Conditions under Current and Future Sea Level Conditions
- **C-51 Canal Support & Sediment Trap Assessment Study** Designed sediment & water quality monitoring plans and provided monitoring & modeling support. The objectives were to characterize soils for contaminants and analyze the efficiency of the sediment trap during current and future flow conditions. SFEC conducted stream gaging; collected necessary stage at the coastal structure; and collected water quality and sediment samples. Data collected were used to estimate current sediment trap efficiency and export of nutrients and sediment to the Lake Worth Lagoon.
- **C-43 Nitrogen Mesocosms Phase I Study** Provided in-Depth Data Analysis of C-43 Water Quality Treatment & Testing Project and integrated results of the mesocosm, bioassay, and denitrification studies into a comprehensive assessment of nitrogen dynamics within the different treatments; Assessed dissolved organic dynamics and potential for removal under different operational conditions (season, flow rate, etc.); Created a mass balance model of all available components to reflect the nitrogen cycle in the mesocosms; and Developed recommendations for additional questions to address in future studies.

**South Florida Water Management District (SFWMD):**

- **Hydrologic and Environmental Systems Modeling (HESM)** Developed large and small field scale research programs to determine vegetation resistance and internal hydraulics in large, constructed wetlands. The main focus of our approach is to send pre-selected discharge waves with pre-selected frequencies and amplitudes through large STAs and small (~two acres) wetlands, monitor pressure changes in the interior, to determine vegetation resistance as a function of water depth and plant density; the first of its kind, particularly for the large-scale STA.

**South Florida Water Management District (SFWMD): Office of Modeling:**

- **Florida Bay Freshwater Impact Analysis (EFDC Model)** The goal was to determine how freshwater inflow to Florida Bay (FB) impacts salinity & nutrients distributions and the impacts of freshwater contributors (Creeks, Slough, and Rainfall) on salinity.
- **Regional Model (RSM/Watershed)** Provided leadership and direction to a multidisciplinary team of internal and external professionals to develop regional hydrologic & water quality (RSM-WQ) models. Conducted field experiments to

determine the impacts of soil re-wetting on phosphorus flux to surface water in STAs; published numerous journal articles dealing with phosphorus (P) optimizations in STAs through structure operation, residence time and vegetation types to maximize P uptake.

**Georgio Tachiev, P.E., Ph.D.**
**Principal Engineer**

Georgio has 30 years of experience in Civil and Environmental Engineering, Water Resources, Hydrology, Water Quality, Stormwater management including: (i) Experience in development of complex numerical models for analysis of environmental and water resources management solutions, remediation strategies and risk management. (ii) Expert level knowledge of state of the practice numerical software for water resources for 1D, 2D and 3D models (MIKE SHE/11/21/FLOOD/ECOLAB, MODFLOW, XPSWWM, ICPR, CFD), (iii) Spatial analysis using GIS technologies, statistical processing software (SAS, MATLAB), computer programming and scripting (FORTRAN, C, C++, MATLAB, SAS, PYTHON, UNIX SHELL, PERL, SQL) for automated processing, analysis and visualization of large hydrological and water quality datasets. (iv) Expertise in all phases of project management, technical reviews, quality control, and reporting.
[Relevant Experience: 30 years]

**Education**
PhD Environmental Engineering and Water Resources
Vanderbilt University

MSC Chemical Engineering
Vanderbilt University

BS Civil Engineering,
VIAS Bulgaria

**Licenses and Certifications**
Professional Engineer with the State of Florida

Project Management Certification

Princeton Remediation Course

**Senior Hydrodynamic Modeler**
**South Florida Engineering and Consulting LLC (SFEC)**

- **S-71 Spillway Structure Replacement Preliminary Design Project.** Principal Modeler. Prepare the hydraulic design calculations and perform hydraulic 3D (computational Fluid Dynamic (CFD) modeling within the limits of the Project, including design of canals, pump station, boat lock, and water control structures. Perform a frequency analysis of hydrological and hydraulic data based on the historical discharge and water stage data of the S71 spillway, as well as the operational requirements of the new structure, to provide boundary conditions for the hydrostructure design and CFD model study. Utilize Ansys Fluent Flow or Flow Science Flow 3D software and 3D nonhydrostatic Reynolds-Averaged-Navier-Stokes (RANS) model with turbulence closure software should be used in the model study.
- **Work Order No. 13: High Level Project Description and Cost Estimates of Recommended FPLOS Phase I Assessments for the C-111, C-111 South, C-111 Ag, Model Land and L-31ns Watersheds FPLOS Study.** Provided a high-level project description and cost estimates for the above-mentioned FPLOS Phase I study (WO6). The project recommendations will be incorporated into the SFWMD Sea Level Rise and Flood Resiliency Plan and may also be used as part of internal cost-benefit feasibility analysis being developed as part of grant applications to prioritize mitigation and adaptation alternatives for current and future conditions.

**Principal**
**GIT Consulting, LLC**

- **Flood Protection Level of Service Assessment: C111 Coastal, South, AG, Model Land, and L-31NS Watersheds - Miami-Dade County, Florida** Lead Model Developer - The project developed a 750 square miles model, including reservoirs, and water supply wells, and 600 miles of canals of integrated surface and groundwater model to analyze the Flood Protection Level of Service of 6 watersheds in South Miami-Dade (L-31NS, C-111 AG, Model Land, US1, C-111 Coastal, and C-111 South). The project included development of calibration and validation models for two recent storms and design events which included 5-, 10-, 25- and 100-yr and Sea Level Rise alternatives based on 0, 1, 2 and 3 ft of SLR with storm surge at the coastal boundary. The model included the entire hydrologic cycle and took into consideration future land use changes, topography and infrastructure changes. The FPLOS was evaluated using a set of 6 performance metrics. The project additionally summarized flood Mitigation Strategies for future SLR and Storm Surge conditions. Prime Firm: South Florida Engineering and Consulting LLC
- **Flood Protection Level of Service of South Miami-Dade County, Florida** Lead Model Developer- The project developed a 550 square miles model, including reservoirs, and water supply wells, and 600 miles of canals of integrated surface and groundwater model to analyze the Flood Protection Level of Service of 4 watersheds of South Miami-Dade (C-1, C-100, C-102 and C-103) . The project included development of calibration and validation models for two recent storms and design events which included 5-, 10-, 25- and 100-yr and Sea Level Rise alternatives based on 0, 1, 2 and 3 ft of SLR with storm surge at the coastal boundary. The model included the entire hydrologic cycle and took into consideration future land use changes, topography and infrastructure changes. The Flood Protection Level of Service was evaluated using a set of 6 performance metrics. The project additionally summarized flood Mitigation Strategies for future SLR and Storm Surge conditions.

**Update of Stormwater Master Plans for Miami-Dade County**

- Principal Engineer for the Update of Miami Dade County's stormwater models of Basins C1, C2, C3, C4, C5 C6, C7, C8, C9, C103. QA/QC Reviewer for the update of basins C100, C102 and C111. The update included submittal of model C8 and C9 to the Federal Emergency Management Authority (FEMA). The project conducts hydrologic and hydraulic modeling for current and future conditions, develops pollutant load estimates, documents the models for each basin, and provide analysis of climate change conditions, including sea level rise for near and long term and provides model simulations reflecting changes in hydrology.

**Mahmoud Madkour, Ph.D., P.E., LEED® AP**
**Project Management**

Dr. Madkour's career spanned 25 years with the Florida Fish and Wildlife Conservation Commission. As a Professional Engineer Administrator, he was responsible state-wide for planning and implementing engineering designs and specifications for new or altered roads, trails, bridges, dams, office buildings, parks, water control structures, and other facilities. He prepared technical specifications and bid packages, and ensured that projects complied with purchasing, permitting and LEED standards. He inspected facilities and projects to ensure safety, efficiency and effectiveness. Dr. Madkour oversaw and reviewed habitat and environmental restoration plans/projects, hydrologic assessments, and other works developed by the FWC's Lake Restoration and Wildlife Management Areas staff, water managements districts, and other entities, for lakes, rivers, estuaries, shorelines management, sustainable funding mechanisms, feasibility and recommended improvements. [Relevant Experience: 25 years]

**Education**
BSCE Structural Engineering
Ain Shams University
Cairo-Egypt.

MCE Hydrology
Auburn University, Alabama

Ph.D. Fisheries-Water Quality
Auburn University, Alabama

**Registration**
Licensed Professional Engineer.
Certified Building Contractor.

**Certification**
LEED® AP (BD+C) by the U.S. Green Building Council.

**Engineer/Project Manager**
**South Florida Engineering and Consulting**

- **FDEP Jensen Beach Hydrologic Restoration Project.** The Jensen Beach Hydrologic Restoration Project was intended to restore sheet flow, hydroperiod, and wetland extent within the southern Savannas system, increase quality of wetland habitat, and reduce invasive exotic plant infestations in wetlands and adjacent uplands due to disturbance caused by altered hydrology. These goals are consistent with the Savannas Preserve State Park Acquisition and Restoration Council Approved Unit Management Plan, specifically within Natural Communities Management and Hydrological Management.
- **USFWS Sandy Point National Wildlife Refuge - St. Croix, U.S. Virgin Islands - Design of Parking Lot and Drainage Repair** Reconfigure & Rehabilitation of parking lot to accommodate a minimum of 20 vehicle parking spaces with new wheel stops. Design drainage structures to accommodate pedestrian crossing from parking lot to visitor center with sufficient capacity for stormwater conveyance, as determined by hydrologic assessment findings.

**Engineer of Record (Sample Projects)**
**Florida Fish and Wildlife Conservation Commission**

- **East Lake Tohopekaliga Drawdown and Habitat Enhancement Environmental Impact Statement** Developed a comprehensive Habitat Management Plan for East Lake Tohopekaliga (Osceola

Certified Construction Contracts Administrator (CCCA) by the Construction Specifications Institute (CSI).

Florida Certified Contract Manager (FCCM) by the Florida Dept. of Management Services

County, Florida). Renovation would include dewatering of the lake (gravity and pump-down), removal of aquatic plant and sediment with heavy equipment, creation of in-lake disposal islands, installation of temporary dam material (e.g., sheet pile material) to isolate sections of the lake, management of aquatic plants using herbicide and prescribed fire, and planting of native vegetation.

- **West Bay Estuarine Habitat Restoration Phases I, II and III.** Designed, permitted, oversaw construction and managed the construction contracts for eighty (80) oyster reef units within West Bay, St. Andrew Bay, Panama City, a Class II Florida Waterbody. Each reef measured approximately 150-foot by 15-foot (2,250 square-foot of area each).
- **Don Pedro Island State Park Hydrologic Restoration.** Designed, permitted, oversaw construction and managed the construction contract for the removal and regrading approximately 2.79 acres of spoil material along the 994-foot canal bank of an artificial berm within Don Pedro Island State Park, Cape Haze, Charlotte County.
- **Fisheating Creek WMA – Cowbone Marsh Channel Restoration.** Designed and permitted the restoration of hydrologic connection important to wetland habitat areas in Cowbone Marsh within Fisheating Creek WMA, Glades County. The plans included the construction of 1.2 miles of temporary access road overlaid with composite interlocking mats. Utilize the temporary access road to transport approximately 24,000 CY of sand fill to be excavated and obtained from a nearby borrow pit to backfill about 10,000 feet of an existing channel.
- **Rotenberger WMA Drill Pad Road Removal.** Designed, permitted, oversaw construction and managed the construction contract for the removal of an approximately 3,200 CY of unimproved road (875 feet long, 1.51-acre area) that lead to an abandoned drill pad island within Rotenberger WMA, Palm Beach County.
- **Restoration of Historic Mosquito Lagoon Saltmarsh.** Designed and permitted restoration of a FWC property in New Smyrna Beach to historic saltmarsh. The project included construction of a shoreline stabilization demonstration area with associated educational signage to highlight various industry techniques. The total site footprint including slopes with stabilization features is ~5.2acres. The saltmarsh supports ongoing environmental education and restoration programs in the region.
- **Expert Witness.** Provided expert testimony in hydrology, water resources, environmental restoration and boat ramps construction.

**Project Manager (Sample Projects)**
**Florida Fish and Wildlife Conservation Commission**

- **East Lake Tohopekaliga Drawdown and Habitat Enhancement Environmental Impact Statement** Developed a comprehensive Habitat Management Plan for East Lake Tohopekaliga (Osceola County, Florida). Renovation would include dewatering of the lake (gravity and pump-down), removal of aquatic plant and sediment with heavy equipment, creation of in-lake disposal islands, installation of temporary dam material (e.g., sheet pile material) to isolate sections of the lake, management of aquatic plants using herbicide and prescribed fire, and planting of native vegetation.
- **Florida Bass Conservation Center.** Managed the Florida Bass Conservation Center project in Sumpter County from concept to construction. This state-of-the-art hatchery is capable of recycling 100% of its water use, and consists of 39,000 square feet under roof, a fish production facility, with offices, labs, conference room, exhibit area with 1,700-gallon aquaria, 63 ponds holding 48 acres of water and producing 1 million advanced fingerling bass, 1.5 million normal fingerling bass, 250,000 sub-adult channel catfish, 1 million striped and sunshine bass fingerlings and 3 million bluegill and/or red ear sunfish fingerlings.
- **Guana Dam Revetment Replacement.** Managed the design and construction of the replacement of Guana Dam Revetment at Ponte Vedra Beach, including dewatering, removal and disposal of an existing concrete mat and concrete rip-rap, installation of sheet piles, grading of earthen dam for new concrete revetment, construction of concrete revetment and pile cap, and erosion and sediment control measures.
- **Hickory Mound Impoundment Embankment Repair.** Managed the design and construction for repairing the embankment around Hickory Mound Impoundment and associated water control structures located in the Big Bend Preserve, which was damaged during hurricane.
- **Yellow Fever Creek Preserve Hydrologic Restoration.** Managed the construction for hydrologic restoration in Yellow Fever Creek Preserve in Lee County. Project involved re-contouring an existing 3-acre pond, removing a berm and filling a ditch (with berm material).
- **Hilochee WMA Hydrological Assessment.** Managed the professional services needed to develop and support restoration strategies and management activities that reestablish sheet flow and rainfall driven hydroperiods in order to improve the function of terrestrial and aquatic habitats within the 16,000-acre Hilochee Wildlife Management Area in Polk and Lake counties.
- **Federal Grant Coordinator for the Florida Fish and Wildlife Conservation Commission Boating Access Program.** Administer and apply as appropriate the Sport Fish Restoration federal funds (Wallup-

Breaux) provided for boating access planning, design, construction and maintenance.
Administer the state portion of the Boating Infrastructure Grant Program (BIGP). This program provides federal funds from the U.S. Fish and Wildlife Service to the States to install or upgrade tie up facilities for transient recreational boats 26 feet or more in length.

**Florida Fish and Wildlife Conservation Commission State Grant Program Administrator**. Administer the Florida Boating Improvement Program (FBIP) which is a competitive grant program that uses funds from fuel sales tax to fund the direct costs of projects for recreational channel marking, public launching facilities, aquatic plant control and other local boating-related activities that are directly related and necessary to recreational boating. Emphasis is given to counties that have population less than 100,000 and coastal counties with a high level of boating related activities from individuals residing in other counties.

**Andrew D. Gottlieb, Ph.D.**
**Lead Environmental Scientist / Biologist**

Dr. Gottlieb is a nationally-recognized professional scientist who has managed, designed and implemented coastal and wetland water quality studies throughout Florida. Dr. Gottlieb has published his research on the effects of hydroperiod and nutrients on the structure and function of Everglades periphyton and plant communities. His peer-reviewed work has appeared in Aquatic Botany, Hydrobiologia, Ecological Indicators, Environmental Monitoring and Assessment, and Southeastern Naturalist. Dr. Gottlieb coauthored the book Microbiology of the Everglades Ecosystem. He has also developed a variety of quantitative tools used to evaluate and model hydrology, water quality and vegetation patterns for the Comprehensive Everglades Restoration Plan and other ecosystem restoration projects. [Relevant Experience: 25 years]

**Education**
Ph.D.
Biology and Aquatic Ecology
Florida International University

Master of Science
Environmental Science and Agricultural Ecology
Washington State University
Pullman, Washington

Bachelor of Science
Biology and Environmental Studies
George Washington University

**Certifications:**
Professional Wetland Scientist
ESRI I & II
T&E Site Observation Training
Data Integrity
PADI Basic Diver
Laboratory Radiation Safety

**Lead Environmental Scientist / Biologist**
**South Florida Engineering and Consulting LLC**

- **Ancient Oaks STA, St. Lucie County** Project Manager/Lead Environmental Scientist, Evaluation and design of a stormwater treatment area for Ancient Oaks Preserve in support of the State of Florida water quality goals outlined in the St. Lucie River and Estuary BMAP. Project included site assessment, public meetings, alternative evaluation, feature design, water quality and H&H modeling, and Environmental Resource Permitting
- **Loxahatchee River Watershed Restoration Project, Flow-Way 3, Martin County, Florida** Lead Environmental Scientist/Biologist – Conducted field survey and habitat assessments in support of project design, permitting and operations. Develop performance metrics/quantitative post processing tools to evaluate hydrologic model results. Support Biological Assessment.
- **Ecology and Environmental Scientific and Technology Support**
  - **Water Quality Bureau Support for FY2022 New Works /Restoration Projects.** Coordinated and wrote project permit reports for the South Florida Environmental Report for WY2022 for CERP and EFA projects. Retrieved data from DBHYDRO Database and analyzed data to meet annual permit report requirements for Picayune Strand Restoration Project, C-111 Spreader Canal, and A-1 Flow Equalization Basin.
  - **Spatial Soil Sampling in the C-44 and Lakeside Ranch Phase II STA and the Ten Mile Creek Water Preserve Area.** Conducted sampling following FDEP protocols to establish baseline soil nutrient and metal concentrations with the STAs. Sampled soils for bulk density analysis. Submitted all samples and appropriate chain of custody documentation to contract laboratory within required hold times. Analyzed soil samples for bulk density, ash free dry weight and pH.

- **C-51 Canal Sediment Trap and Structure Flow Assessment Technical Support.** Completed literature review of available reports, engineering plans, technical papers and memoranda concerning the trap. Collected sediment samples of trap accumulations at six locations. Analyzed for semi-volatile parameters: OCCPs, PCBs, Total Nitrogen, Total Phosphorus, TOC and metals, including copper. Measured water depth and sediment thickness at the six sampling locations. Completed stream gauging and water sediment sampling for sediment load calculations for six events under three flow rates.
- **Biological / Ecological Evaluations of the Lake Okeechobee Watershed Restoration Project C-38 ASR Clusters.** Evaluated biological conditions, assessed protected species, documented wetlands and other jurisdictional waters, and prepared Uniform Mitigation Assessment assessments within the study area. Completed USACE Data Sheets for habitats within the study area. Deliverables will facilitate SFWMD efforts in the State and Federal Permitting Process.
- **In-Depth Data Analysis and Integration of C-43 Water Quality Treatment and Testing Project – Phase I Bioassays and Mesocosms.** Conducted an in-depth data analysis of the mesocosm study, including the denitrification and bioassay results, and constructed a mass balance nitrogen cycle model to understand how the created wetlands process, store and release nitrogen. The integrated results from this evaluation will be used to inform the study objectives of next phase of the C43-WQTTP research demonstration, Phase II test cells.

- **East Lake Tohopekaliga Environmental Impact Statement.** Developed the Listed Species Biological Assessment for submission to USFWS. Provided expertise in water quality and ecology to refine project alternatives. Conducted project alternative affects analysis for water quality, wetlands, and fish and wildlife. Provided scientific technical support for stakeholder meetings and interagency groups.
- **Dinner Island Ranch WMA Hydrologic Assessment**. Analyzed the development of restoration strategies and management activities to reestablish sheet flow and rainfall driven hydroperiods to improve the function of terrestrial and aquatic habitats within the 34 square mile WMA. Developed performance measures for hammock and depressional wetland communities. Conducted field assessments and research aimed at restoration of pasture to wet prairie habitat comparing the effects of inundation duration on native and exotic seed germination rates. Developed scientific presentations for public / stakeholder meetings.
- **Wetland Determinations for Natural Resources Conservation Service**: Evaluated available data and aerial imagery to characterize historic and baseline conditions. Conducted wetland determinations and changes in site drainage to evaluate changes from base conditions. While onsite, followed USACE procedures with NRCS modifications to determine wetland boundaries. Characterized hydrology, soils, and vegetation to determine if hydric conditions are present.

**Christopher W. McVoy, Ph.D.**
**Lead Environmental Scientist / Hydrologist / Biologist**

Dr. McVoy is a noted eco-hydrologist, Everglades expert, author, and empiricist trained in systems analysis and simulation modeling. He is experienced in remote sensing, historical and modeling research, and the ecosystems and hydrology of South Florida. Dr. McVoy authored Landscapes and Hydrology of the Predrainage Everglades, the definitive characterization of the pre-drainage hydrology and ecology of the Everglades. His work has been published in Ecological Economics, Agriculture, Ecosystems and Environment, and other peer-reviewed journals. He maintains a geomorphology program in Water Conservation Area 3-A. [Relevant Experience: 27 years]

**Education**

Post-Doctoral
Systems Ecology
Technical University of Braunschweig, Germany

Ph.D.
Soil Physics
Cornell University, Ithaca, New York

Master of Science
Soil Physics
University of Florida, Gainesville, Florida

A.B.
Biology / Systems Ecology
Cornell University, Ithaca, New York

**Senior Hydrologist**
**South Florida Engineering and Consulting LLC**

- **Ecology and Environmental Scientific and Technology Support Services.**
  - C-51 Canal Sediment Trap and Structure Flow Assessment Technical Support.
  - Biological / Ecological Evaluations of the Lake Okeechobee Watershed Restoration Project C-38 ASR Clusters.
  - In-Depth Data Analysis and Integration of C-43 Water Quality Treatment and Testing Project – Phase I Bioassays and Mesocosms.
  - Spatial Soil Sampling in the C-44 and Lakeside Ranch Phase II Stormwater Treatment Areas and the Ten Mile Creek Water Preserve Area.
- **East Lake Tohopekaliga Environmental Impact Statement.** Developed the Biological Assessment for USFWS and provided environmental expertise in water quality and ecology for the NEPA process and development of the EIS.
- **Bonita Springs Woodchip Bio-Reactor Pilot Project.** Analyzed peer-reviewed and gray literature on woodchip bio-reactors to evaluate feasibility and develop design of C-enriched, anaerobic reactors to remove nitrate-N from stormwater runoff for the Everglades West Coast Basin Management Action Plan.
- **Corbett WMA Hydrologic Assessment.** Analyzed the restoration and management strategies to reestablish sheetflow and rainfall-driven

hydroperiods to improve terrestrial and aquatic habitat function of 94 square mile wildlife management area.

- **Dinner Island Ranch WMA Hydrologic Assessment**. Analyzed the development of restoration strategies and management activities that reestablished sheetflow and rainfall driven hydroperiods to improve the function of both terrestrial and aquatic habitats within the 34 square mile wildlife management area.

**Senior Environmental Scientist**
**South Florida Water Management District**

- **Book: Landscapes and Hydrology of the Predrainage Everglades (University Press of Florida, 2011.).** Lead multi-year, interdisciplinary research effort characterizing the Everglades of the 1800s, prior to human constructed compartmentalization and drainage. Researched and wrote book on predevelopment ecohydrology. Performed field and remote sensing research of hydrology, geomorphology and landscape ecology. Synthesized historical observations with soil, water and vegetation data to develop a spatially explicit reconstruction of predevelopment conditions. The resultant book was published in 2011 by University Press of Florida and forms the basis for regional hydrologic models. Budget: $110,000.
- **The Role of Flow in the Everglades Ridge and Slough Landscape, Science Coordinating Team Paper.** Co-authored a critical paper that shifted the focus of hydrologic restoration from water depths to the actual movement of water. Demonstrated the link between absence of flow and loss of characteristic Everglades vegetation and geomorphology.
- **Predrainage Hydrology of the St. Lucie Watershed, Estimated from Historical Sources.** Reconstructed the predevelopment hydrology of the wetland/upland mosaic originally present in the St. Lucie watershed to support regional modeling of surface and groundwater behavior and set minimum flows for the St. Lucie River and Estuary.
- **Monitoring Water Flow and Sediment in the Everglades.** Used robotics and specialized field instrumentation to identify causal relationships between: environmental drivers, including temperature, flow, wind, and rainfall; water transport of flocculent organic material; and preservation of characteristic Ridge and Slough landscape morphology. [See: www.ridgeandslough.org]

.

## Reinaldo Diaz, J.D.

### Strategic Engagement and Compliance Lead

As a native Floridian and avid outdoorsman I was raised with an admiration for its lifestyle and natural resources, with that came a great desire to protect the unique community that I call home. This has inspired me toward a variety of pursuits that relate to our environment's protection. Much of my experience is in organization structure and development for both government and non-government organizations, especially in regards to funding management and sustainability. My education and experience is broad but has allowed me to develop a profound understanding of effective communication skills across various media with a deep understanding of Florida's environment and its development, all to better facilitate meaningful dialogue.

### Education

J.D. Land Use and Environmental Law, Nova Southeastern University

Ethnography Field School, Centro de Investigaciones Salango Ecuador

B.A. Communication, Florida Atlantic University

### Relevant Experience

13 years

### President

**Lake Worth Waterkeeper**

Founding President of Lake Worth Waterkeeper, a local nonprofit and member of Waterkeeper Alliance dedicated to the protection and restoration of the Lake Worth Lagoon and its watershed. Built and started a water quality laboratory and implemented a first-of-its-kind substantial monitoring program throughout the Lake Worth Lagoon and its watershed. Monitoring includes enterococcus and E. coli bacteria, cyanobacteria, and red tide throughout the watershed starting in Lake Okeechobee to our beaches. Other scientific research includes being the first to successfully tag horseshoe crabs in the Lake Worth Lagoon as the Palm Beach County coordinator of Florida Fish and Wildlife Conservation Commission's Horseshoe Tag Watch Program. Created various education programs for students of all ages, such as our Lagoonies an outdoor experiential education program that takes kids out into various habitats where they learn about our local environment. Also provide curriculum to local schools through district professional development days. Legal work includes advocating for policy change across all levels of government and participating in legal challenges to various environmentally destructive issues.

### Board Member

**Florida Wildlife Foundation**

Provide strategic oversight and governance to support the organization's mission of promoting protection of Florida's wildlife through various environmental policy reform initiatives. Collaborated with fellow board members to develop and implement long-term strategic plans, ensuring alignment with the organization's goals while vastly improving financial sustainability. Act as an ambassador for the organization, fostering partnerships with stakeholders, community leaders, and environmental advocates.

**Everglades Coalition**
Provide strategic oversight and governance while developing the organization's policies to better support the mission of Everglades protection and advocating for restoration funding at both the state and federal government levels. I plan and facilitate the organization's annual retreat, where we hold a quarterly meeting with outdoor activities and events for our member organizations throughout the Greater Everglades.

### City Commissioner

**City of Lake Worth Beach**
Collaborated with fellow commissioners, mayor, and staff to implement and manage the city's annual budget. Secured different funding sources for various city projects. Provided legislative and policy oversight to guide the city's growth, infrastructure, and public services. Collaborated with fellow commissioners, mayor, staff, and community stakeholders to develop and implement policies addressing public safety and economic development.

### City Representative, Board/Committee Member

**Lake Worth Lagoon Initiative**
Member representing the Palm Beach County League of Cities, where I collaborated with fellow members from various local and state government agencies providing input and sharing information regarding the preservation, restoration, and scientific research of the Lake Worth Lagoon ecosystem.

**Palm Beach County Water Resources Task Force**
Member representing the Palm Beach County League of Cities, where I collaborated with fellow elected officials from Palm Beach County providing input and sharing information regarding various scientific research and water management efforts throughout the county.

**Palm Beach Transportation Planning Agency**
Collaborated with fellow local elected officials and agency staff on the implementation and management of countywide transportation infrastructure funding initiatives.

### Executive Director

**Calusa Waterkeeper**
Develop and implement fundraising strategy to reflect and achieve the organization's goals and mission objectives of protecting the historic Caloosahatchee River. Organized the initial implementation of the Rangers program, a volunteer citizen science program for water quality monitoring throughout the watershed.

**Tanzina Afrin, M.S.**
**H & H Modeler / Water Resources Engineer**

Ms. Afrin is an experienced Civil Engineer with experience in numerical modeling, river hydraulics, morphology, sediment transport, bridge hydraulics, etc. She has Solid experience on working with processed based one- and two-dimensional hydro- morphological model, hydrological model, flood inundation model, urban storm water model, wave model, etc. Extensive experience in a variety of hydrologic, hydraulic, and GIS software. Ms. Afrin's interests lead her to author Morphodynamic modeling of a small coastal river during an extreme flood event in 2016.
[Relevant Experience 15 years]

**Education**
MSc. Civil Engineering Water Resources Louisiana State University

MSc. Water Science and Engineering, Specialization: Hydroinformatics IHE Delft, The Netherlands

BSc in Civil Engineering Military Institute of Science and Technology, Bangladesh

**Memberships**
American Geophysical Union (AGU)
American Society of Civil Engineers (ASCE)

**Water Resources Engineer**
**South Florida Engineering and Consulting LLC**

- **FPLOS (Flood Protection Level of Service) Assessment for Current and Future Conditions in C-111 Coastal, C-111 South, C-111 AG, Model Land, and L-31NS Watersheds** Hydrological Modeler - review and evaluate the existing facilities to identify stormwater system components, which may underperform under the current LOS, and to develop sustainable stormwater management solutions considering both existing and future condition with SLR. The LOS analysis is based on results from numerical simulations of watershed hydrology using an integrated surface groundwater hydrologic model, developed with MIKE SHE- MIKE 1D modeling tool.
- **Ancient Oaks STA, St. Lucie County** Hydrologic Modeler- modeled, developed, and designed drainage options including water control structures (stormwater pond) as well as other improvements that benefit both water quality, natural storage, and drainage. Provided modeling reports describing expected nutrient removal, and hydrological function for incorporation into the County's BMAP.
- **AECOM Compass FEMA Erosion Modeling Support** Involved with Risk Mapping Program of the Federal Emergency Management Agency (FEMA) with AECOM/Compass to provide technical support in the Risk Mapping, Assessment, and Planning Program. Specific responsibility refers to expanding binary coastal erosion hazard information into a graduated hazard and damage information source capitalizing on existing FEMA methodologies, specifically, transect and SWEL compilation. Used the ArcGIS tool for this project.
- **STA-5/6 Connection to Lake Okeechobee – Phase 1** Hydraulic Modeler - worked with South Florida Water Management District

(SFWMD) with main consultant CDM Smith. This is the subsequent study of a feasibility study of developing conceptual designs to move Lake Okeechobee water south for treatment within Stormwater Treatment Area (STA)-5/6 and eventual delivery to benefit the Everglades. Accomplished H&H modeling with HEC-RAS 1D for designing of the proposed project features of the interim and permanent pump stations, box culvert, bridge, STA-5/6 North Seepage Ditch and Outfall Ditch into the L-2/L-3 Canal.

- **Loxahatchee River Watershed Restoration Project (LRWRP) Flow-way 3** Hydraulic modeler with WSP USA. Inc. for SFWMD project to improve the quantity, quality, timing, and distribution of water flows to and within the Everglades system. LRWRP will improve water flows to the NW Fork of the Loxahatchee River and restore the connectivity of wetlands and watersheds that form the river headwaters to ensure the appropriate hydrological conditions to support healthy flood plain vegetation. Seven different 1D/2D coupled hydraulic models are being developed with HECRAS software to fix structural design and to evaluate the flooding and backwater impact.
- **SFWMD WO No. 15: Vertical Datum Upgrade Implementation in Operations and SCADA. South Florida.** Established the offsets for South Florida Water Management District (SFWMD) sites, benchmarks, and structures. Performed error analysis of offsets by comparing surveyed offsets with generated offsets using the COPRSCON program. Created an inventory of each SFWMD site with corresponding SCADA offsets, documented Regulation Schedules for 17 large water basins, wrote reports and completed other tasks as required under the Professional Engineering Services Work Order Contract with SFEC. This project is needed for the National Spatial Reference System, as the National Geodetic Survey is replacing the North American Datum of 1983 (NAD 83) and the North American Vertical Datum of 1988 (NAVD 88) with a new geometric reference frame and geopotential datum.

**Engineering Specialist / Intern**
**South Florida Water Management District**

- **Implementation of the Tamiami Trail Flow Formula.** Designed a program to predict weekly flow using all previous and current data for different variables. The program can be adjusted considering flow difference occurred in past weeks. In addition, performed percentile analysis for both rainfall and potential evapotranspiration to use in case of unavailability of data for any given week.

**Michael Adler, GTA, CERP - Environmental Scientist / GIS**

An accomplished ecologist, inventor, writer, and natural resources specialist, Mr. Adler has a thorough understanding of most of Florida's natural communities, along with their management needs and common sources of degradation. He can identify them in the field as well as from aerial imagery. Mr. Adler is skilled in the identification of native and invasive plants. He is an accomplished field researcher and is familiar with control of nuisance and invasive plants. Mr. Adler participated in the invention of a system for acoustic monitoring of bats [Patent No. 8379486]. His skills include ESRI GIS analysis and mapmaking. He has experience sampling water according to FDEP protocols, RTK surveying, and working with DC electrics. He has training in wildland fire management, wetland delineation, and gopher tortoise relocation. He is an Authorized Gopher Tortoise Agent and Certified Ecological Restoration Practitioner. [Relevant Experience: 16 years]

**Education**

M.S. Ecological Restoration, Forest Resources and Conservation, University of Florida

B.S. Zoology
University of South Florida

**Registration/Certs.**

Authorized Gopher Tortoise Agent GTA-21-00063

SER Certified Ecological Restoration Practitioner

SFAEP Wetland Delineation

**Professional Affiliations**

Society for Ecological Restoration (SER)

The Native Plant Society (NPS)

Palm Beach County Rare Fruit Council (RFC)

Society of American Military Engineers (SAME)

**Environmental Scientist**
**South Florida Engineering and Consulting LLC**

- **Indrio Savannahs Wet Pond Project, St. Lucie County** Environmental Scientist - Contributed to ecological field evaluation of site conditions, provided GIS support for study of site and planning, such as development of alternatives for restoration and hydrologic reconnection. Also provided GIS support for model development. Made maps for permit application. Wrote revegetation plan.
- **Ancient Oaks STA, St. Lucie County** Environmental Scientist - Contributed to ecological field evaluation of site conditions, provided GIS support for study of site and planning, such as development of alternatives for conceptual location and configuration of stormwater pond conveyances, and berms. Also provided GIS support for model development including study of existing permits and water flow analysis. Made maps for permit application.
- **Loxahatchee River Watershed Restoration Project, Flow-Way 3 Martin County, Florida** Environmental Scientist - part of team that accomplished field surveys examining vegetation, ecological conditions, and topography, to make recommendations for most beneficial citing of hydrologic conveyances for ecological benefit. Conducted GIS analyses and produced charts of transects.
- **AECOM Compass FEMA Erosion Modeling and Support** Worked as part of the SFEC GIS team under subcontract to AECOM, to refine and QA/QC geographic data to make data inputs suitable for use in the FEMA coastal erosion modeling tool. As part of this effort, developed a protocol for accomplishing one of the necessary edits to the data.
- **Ecology and Environmental Scientific and Technology Support Services** Biological / Ecological Evaluations of the Lake Okeechobee Watershed Restoration Project C-38 ASR Clusters. Evaluated biological conditions, assessed protected species, documented wetlands. Completed USACE Data Sheets for habitats within the area. Deliverables facilitated SFWMD efforts in State and Federal Permitting.
- **East Lake Tohopekaliga Environmental Impact Statement.** Developed the Biological Assessment for USFWS and provided environmental expertise in water quality and ecology for the NEPA process and development of the EIS.
- **J.W. Corbett WMA Hydrologic Assessment.** Data collection & processing, veg/elevation transects and charts, plant community characterization, restoration planning, T&E species, GIS analysis of model data and map development.
- **Dinner Island Ranch WMA Hydrologic Assessment**. Data collection, data processing, charting, plant identification, plant community characterization, restoration planning, T&E Species surveying, GIS analysis of model data, map development and ERP Permitting.

- **Wetland Determinations for Natural Resources Conservation Service.** Field wetland determinations, forensic investigation into historic wetlands & possible wetland alteration/loss, and GIS mapping
- **Savannas Preserve State Park Hydrologic Restoration.** Assisted with field investigations, surveys, and restoration planning. Conducted GIS analyses and produced maps for the project. Provided maps and measures for the SFWMD ERP permit.

**Assistant Staff Ecologist**
**Pandion Systems, Inc.**

- **Re-Bat System Development.**
  Invent and deploy a system for acoustic monitoring of bats. Survey and relocate gopher tortoises. Complete GIS analyses and project maps. Organized 4,000 item literature library.

**Employee**
**Kestrel Ecological services**

- **Invasive plant control.** Worked as a member of a team and individually to skillfully and carefully treat invasive and problematic plants, while protecting special species, in forests, fields, wetlands, and restoration areas, in most weather conditions and Florida terrain types. Measured and mixed chemicals for these treatment efforts.

**Adjunct Professor**
**Santa Fe State College**

- **Teach "Energy and Ecology."** Developed lectures, assignments, and assessments; and provided lectures, assistance, and grades to students. The course topics included the ecological impacts of civilization's energy sources, basic ecology principles, and Florida ecosystems.

**President**
**Edible Plant Project, Gainesville, Florida**

- **Edible Plant Project.** Organizational leadership for a non-profit serving Gainesville and the surrounding areas. Propagate and distribute fruit trees, perennial vegetables and seeds of locally appropriate species that are not generally available from other sources. Lead the organization through successful expansion and relocation of facilities. Develop and prioritize activities necessary to propagate, distribute and maintain stock. Acquire and select approximately 50 species for production and maintain stock of up to 3,000 potted plants.

**Director**
**Tortoise garden restoration area, Gainesville, Florida**. (2011-present)

- **The Tortoise Garden** is an experimental longleaf pine forest restoration project intended to improve understanding of restoration ecology processes and procedures as well as restoring diverse populations of appropriate rare species. Activities include acquiring local propagules (seeds, cuttings, rescue transplants), clearing undesirable vegetation to make room for restoration plantings, weed management, prescribed fires, recruiting and training volunteers, providing seeds and site-soil to a partner nursery and planting resulting container stock, conducting experiments. The area now hosts over 90 appropriate plant species, and a study (for publication) on seasonality of seed planting is underway.

**Daljit Sandhu, E.I., Ph.D.**
**QA/QC / Water Resources Engineer**

Dr. Sandhu is a State of Florida Engineering Intern with experience in hydrology and hydraulics. He has research experience in studying the response of Everglades to changing climate and anthropogenic activities, and the effects of sinkhole events on contaminant transport in the Floridan aquifer. In addition, he studied the relationships between karst formations in Florida to hydrological processes by simulating karst evolution. A talented engineer and H&H modeler, his work experience entails supporting the SFWMD in replacing the vertical datum from NGVD29 to NAVD88. The purpose of this project was to convert all elevation data, regulation schedules, Operational Decision Support System (ODSS), and relevant structure documents to the new vertical datum. In addition, he has supported various drainage/dewatering projects and has experience with AutoCAD, GIS, and Python/MATLAB. [Relevant Experience: 9 years]

**Education**
Ph.D. Civil Engineering
University of Central Florida

M.S. Civil Engineering
Water Resources University of Central Florida

B.S. Civil Engineering
University of Central Florida

**Memberships**
American Geophysical Union (AGU)

American Society of Civil Engineers (ASCE)

Environmental Water Resources Institute (EWRI)

**Water Resources Engineer**
**South Florida Engineering and Consulting LLC (SFEC)**

- **Dupuis Seepage Project.** Currently providing engineering and GIS support for the installation of monitoring wells to monitor and analyze water level stages and flow across SFWMD pumping operations.
- **Ancient Oaks Preserve Project.** Currently providing engineering and permitting support for the design of stormwater ponds and swales to improve stormwater management in St. Lucie County. Developing design plans to be submitted for environmental resource permitting with SFWMD.
- **C-111 Level of Service Modeling Project.** Provided engineering support for the modeling of six (6) South Florida watersheds for evaluating flood protection level of service (FPLOS) in collaboration with the SFWMD. Assisted in providing potential mitigation solutions based on modeling results. Documented meeting minutes at each meeting.
- **AECOM Compass FEMA Coastal – Graduated Erosion Project.** GIS Analyst – Provided technical support for FEMA's Risk Mapping, Assessment, and Planning Program. Reviewed raw flood and erosion GIS shapefile data for Martin and Indian River counties. GIS data were corrected as required by AECOM prior to computing erosion hazards.

Society of American Military Engineers (SAME)

- **Boynton Beach Lake Ida Water Quality Monitoring Project.** Water Resources Engineer – Provided rainfall analysis in support for the water quality monitoring analysis for Lake Ida in Boynton Beach. Rainfall statistics and frequency analysis are computed to explain ongoing water quality trends.
- **Stormwater Inspection Services.** Assisted P.E. in inspecting various stormwater systems throughout Broward County in support of county requirements.
- **USDA ARS Storage Tank Permit Project.** Inspected and developed storage tank plans in support of obtaining a Broward County permit for client TTI Environmental.
- **L-31 East Storm Surge Modeling.** Collaborated with Arcadis for the L-31E Modeling project for the SFWMD. Collected daily peak stage data for tidal structures and analyzed stage-frequency relationships.
- **Big Cypress Canal Dewatering Permitting Project.** Provided engineering and permitting support assistance for the dewatering analysis in support of the Cypress Canal Control Structure relocation project in the Big Cypress Basin by the SFWMD. Collaborated with Kiewit and the SFWMD to obtain a dewatering permit for this project.
- **Indian Creek Village Dewatering Permitting Project.** Provided engineering and permitting support for the dewatering of Indian Creek Village for their stormwater drainage system upgrade project in Miami.
- **Oasis Condominium Driveway Project.** Provided engineering support for improving the entrance and exit driveway design for the Oasis Condominium in Palm Beach as part of a greater renovation project. Designs received approval from the FDOT.
- **Murphy Bridge Dewatering Permitting Project.** Provided engineering and permitting support for the dewatering of Murphy Bridge in Martin County in support of the Murphy Bridge replacement project conducted by Kiewit. Analyzed flow rates, and areas of influence to obtain a dewatering permit from the SFWMD.
- **SFWMD WO No. 15: Vertical Datum Upgrade Implementation in Operations and SCADA.** Provided engineering support for the programming and automation component of the Vertical Datum Upgrade Project at the South Florida Water Management District. Provided updates to regulation schedules and elevation related reports.

**James B. Harper, P.E., F.NSPE**
**Principal Construction Engineer**

James is a Florida Licensed Professional Engineer with 37 years of experience in Public Works engineering for design, construction, inspection, maintenance, and program management of infrastructure projects including structures, roadways, utilities, drainage facilities, etc. He has successfully performed in a wide variety of roles furnishing technical expertise and project management services as the Owner's Representative for Hillsborough County. He is experienced in design, construction, and operations & maintenance programs for mechanical and electrical elements of movable bridge structures. [Relevant Experience: 37 years]

**Education**
Bachelor of Science in Structures, Materials, and Fluids (Civil)
University of South Florida

**Registration**
Professional Engineer

**Leadership**
NSPE Professional Engineers in Construction Executive Board

**Memberships**
National Society of Professional Engineers (NSPE)

American Society of Highway Engineers (ASHE)

**Lead Construction Engineer**
**South Florida Engineering and Consulting LLC**

- **SFWMD 4600004082-WO4 BCB Electrification Package 2 Construction project construction management Services.** Serve as on-site representative to observe and document construction and assist the DCM in determining if the work is performed according to the associated project drawings and specifications. As consultant representative, attends and participates in project construction meetings to update the District on the status of the construction, which includes but is not limited to construction activities accomplished to date, potential and/or actual construction problems and delays, and upcoming work to be completed by the construction contractor and the consultant. Assist the DCM with the review and reconciliation of contractor payment applications. Provide completion certification at the end of construction. Assist with verifying project completion milestones and contract closeout/commissioning. ($221,872.00)

**Hillsborough County Transportation Dept.**
**Owner's Engineer / Rep.**

- Worked with SWFWMD Operation & Maintenance (O&M) permits, handling all engineering responsibilities for their program to fulfill SWFWMD requirements for several hundred O&M Permits. This involved:
  - On-site inspection & investigations
  - Research for plan / design records
  - Data base setup & tracking
  - Preparing detailed plans & reports for necessary repairs / rehabilitations - Prepared, sign/sealed, & submitted several

hundred Certified SWFWMD O&M Reports for that Municipality's Transportation Dept.
- Coordinated with County Forces for W.O. Requests, educational needs, specialized instructions, etc. to get Maint. Repairs, & Const. completed.
- Coordinated with, and responded to, SWFWMD authorities for all Permit Extensions and other requirements to satisfactorily handle Hillsborough County's O&M Permitting program.
- Occasionally prepared some design modifications for certain structures & facilities that required replacement, modifications, or rehabilitation.

**Hillsborough County Public Works Dept.**
**Engineering & Environmental Div. Professional Eng. II**

- Pal-Mar Basin Project, Northlake Boulevard Bridge, and FDOT LAP Projects.
- Working manager for in-house Construction Engineering and Inspection and Management teams handling all capital improvement program construction contracts for a large local municipality with annual expenditures of about $100 million.
- Develop & operate electronic records system to enable tracking & reporting for program/project mgmt., permit compliance, and Division scheduling of warrantee inspections.
- Responsible for the analysis, review, consensus coordination, and completion of revisions & updates for the Public Works Department Construction Contact Boiler Plate, Special Conditions, and Technical Specifications. Some of the main enhancements accomplished involved Claims related modifications to accommodate permit and funding requirements and revisions.
- Coordinate with Federal and State Representatives for the County funding program.
- Coordinate with EPC, EPA, SWFWMD, ACOE, and other authorities to satisfy requirements to complete and closeout construction projects.
- Serve in a key role to maintain, develop, and update program policies, procedures manuals, and various contract specifications for all of the transportation CIP contracts.
- Responsible for coordination and handling of jurisdictional transfers with other government agencies.

**Hillsborough County Public Works Dept.**
**Transportation Maintenance Div. Professional Eng. II**

- Provide professional level engineering services and technical support for TMD & ROWMO.
- Working manager for eng. review, analysis, investigations, and policy development related to Transportation CIP's, Commercial, and Subdivision sites within County ROW areas.
- Leadership role implementing technology assisting TMD Staff in development of asset coding. Trained staff in project management to enhance handling of maintenance contracts.
- Provided focus for practical systems and methods to implement engineering principles for the ROWMO staff to effectively regulate ROW use and development. Engineering skills were used to achieve objectives/concerns with an emphasis on criteria relevant for public safety & welfare.
- Routinely provided training, Q/C, peer review, coaching, engineering analysis, and other technical/mgmt assistance for numerous on-going projects undertaken within the Division.
- Established professional relationships between Hillsborough County and Florida's Turnpike Authority that enabled resumption of jurisdiction transfers that had previously been abandoned.
- Enhanced awareness/knowledge of ROWMO Staff, and other entities, to implement best practice and procedures in regulating multiple interests/users of transportation infrastructure.

**Aimond Alexis**
**Construction Management Services/ Project Manager**

Mr. Alexis is an internationally experienced Engineer and Project Manager. He has worked as a Construction Engineering and Inspection (CEI) inspector, responsible for inspecting construction work and ensuring compliance with contract specifications. Mr. Alexis led the environmental and social team of the Sustainable Rural and Small Towns Water and Sanitation project in Haiti. Mr. Alexis has worked for SFWMD for 18 years. He provided engineering support, performed simulation runs for the Everglades Agriculture Area (EAA), the Stormwater Treatment Areas (STAs) and the Water Conservation Areas, to provide responsive modeling support for District water management operations and water resources program. [Relevant Experience: 31 years]

**Education**
Master of Engineering
Ocean Engineering
Florida Atlantic University

Bachelor of Science
Civil engineering
University of Haiti

**Professional Affiliations**
National Society of Civil Engineers

Society of American Military Engineers

**Water Resources Engineer**
**South Florida Engineering and Consulting LLC**

- **Golden Gate Weir and WQ Filtration Project, Martin County, Florida –** Project Manager – Currently managing the project by reviewing the current model, updating, and refining the current model. The primary objectives consist of the project alternative development and evaluation, as well as feature design. The other important tasks include WQ treatment evaluation associated with the proposed upflow filter/baffle box and required analysis for permitting documentation. ($114,924.70)
- **Dispersed Water Management Program, Monitoring Services for Northern Everglades Public Private Partnership Projects, Indian and Ste Lucie Counties, Florida –** Project Manager - Currently involved in taking water samples and doing maintenance on the selected sites for water quality purposes. The goals and objectives of the DWM Program are to provide shallow water storage, retention, and detention to enhance Lake Okeechobee and estuary health by reducing discharge volumes, reducing nutrient loading to downstream receiving waters, and expanding groundwater recharge opportunities. ($124,700.00)
- **St. Lucie County Construction Engineering Inspection Services Water Quality Projects - River Park Baffle Boxes** Provide Construction Engineering Inspection Services onsite for the baffle box projects to document labor, equipment, and other aspects of

project construction. Document land preparation, construction layout, concrete pour, BMPs for WQ, box specifications, box installation, sod and asphalt repairs. The CEI will coordinate site visits with both the Contractor and the County PM. Coordinate the timing of all necessary Geotechnical work with the Subconsultant. ($181,101.00)

**Executive Director/Civil Engineer**
**GITEP**

- **House and Road Construction Project, Haiti -** The goals and objectives of this project are to carry out the construction of houses and neighborhood roads, supervise the work as a CEI role and manage the contracts pertaining to this project. Ensured that all construction work performed adheres to safety protocols and regulations, document inspection findings, including any violations or issues, and prepare detailed reports, collaborate with architects, engineers, contractors, and other stakeholders to address any identified deficiencies. Developed corrective action plans, conducted regular inspections of ongoing construction projects to monitor progress and identify any potential problems, analyze site conditions, and identify potential risks or hazards that could impact construction activities. Inspected and tested construction equipment and machinery to ensure proper functioning and compliance with safety guidelines and finally assist in the resolution of disputes or conflicts regarding construction work and providing expert advice on compliance matters.

**Scientist 4/ Senior Environmental and Social Specialist South Florida Water Management District -Environmental monitoring and assessment – West Palm Beach , Florida**

- Developed simulation runs for the Everglades Agriculture Area (EAA), the Stormwater Treatment Areas (STAs) and the Water Conservation Areas, provided responsive modeling support for District water management operations and water resources programs, developed a program to generate more accurate flow rates, computed flow rates through spillways and other water control structures to generate flow records, reviewed surface water management permit applications in accordance with established criteria, to provide technical advice to other District units and external organizations. Analyzed, validated hydrologic and meteorological data and performed stream gaging monitoring to record flow measurements at the control structures to calibrate them.

**Sue Byrd**
**Technical Editor**

**Computer Skills**
Word
PowerPoint
Publisher
Excel
SharePoint

**Awards**
Member of U.S. Army Corps of Engineers 2009 C-111 Spreader Canal Project Delivery Team of the Year

Ms. Byrd has over two decades of experience serving as Lead Technical Editor on water resource, habitat restoration and utilities projects. She was the Lead Technical Editor for the East Lake Tohopekaliga Impact Statement and Biological Assessment, Sumter National Forest Stream Restoration Environmental Impact Statement, and Environmental Impact Statement and many Comprehensive Everglades Restoration Projects. She is skilled at maintaining a consistent flow of documents by multiple authors, editing, formatting, developing document templates, and coordinating changes and input from authors and reviewers.
[Relevant Experience: 25 years]

**Lead Technical Editor**
**East Lake Tohopekaliga Environmental Impact Statement and Biological Assessment**

- Lead Technical Editor for the project that involved a temporary deviation in the regulation schedule for East Lake Tohopekaliga, an approximately 12,000-acre lake located in Osceola County, Florida.
- Maintained Administrative Record

**Lead Technical Editor**
**Sumter National Forest Steam Restoration for U.S. Forest Service**

- Lead Technical Editor for the project that involved approximately 100,000 linear feet of stream restoration activities in five watersheds with a one-year start-to-finish National Environmental Policy Act process

**Final and Draft Broward County Water Preserve Area Project Implementation Report and Environmental Impact Statement**

- This USACE Project addressed loss of ecosystem function within the Everglades due to damaging discharges of runoff from developed areas in western Broward County excessive nutrient loading, and excessive water seepage into developed areas.
- Provided editing, formatting, document compilation and configuration management for this final and draft, five-volume PIR and EIS document.

**Other Key Projects**

- C-111 Spreader Canal Western Project Draft and Final Integrated Project Implementation Report and Environmental Impact Statement
- Biscayne Bay Coastal Wetlands Phase 1 Draft and Final Integrated Project Implementation Report and Environmental Impact Statement
- Upper Floridian Aquifer Regional Recharge Concepts and Feasibility Study Task 2 Technical Memorandum.
- Platte River Recovery Implementation Program Independent Science Review, Headwaters Corporation, Central Nebraska.
- Wetlands and Aquatic Resources Technical Support – Organizational Conflict of Interest Management Plan.

**Jose M. Cruz**
**Water Quality Field Technician II**

Mr. Cruz came to South Florida Engineering and Consulting LLC through experience with Explorer Post 57. He showed a keen interest in learning about the Everglades and other natural areas of Florida, as well as in a career related to water resources and environmental science. Since joining our team, he has developed and supported Everglades restoration strategies and related water quality monitoring and water resources management activities. He is quick to learn and apply new skills while providing technical assistance in installing and maintaining telemetry equipment, collecting remote data, sampling groundwater, and collecting surface water samples. Mr. Cruz is responsible for maintenance of records and data. [Relevant Experience: 3 years]

**Education**
Suncoast High School

Palm Beach State College (current student)

**Memberships**
Society of American Military Engineers (SAME).

National Society of Professional Engineers

**Water Quality Field Technician II**
**South Florida Engineering and Consulting LLC**

- **SFWMD - Dispersed Water Management Program Monitoring Services for Northern Everglades Public Private Partnership Projects.**
  Providing technical assistance in the use of telemetry and ground water sampling. Responsible for weekly water quality surface sampling (VanDorn), installation and maintenance of autosamplers, LoggerNet data downloads, and quarterly reporting. (On-going. $353,179 contract)
  - Caulkins Farm Dispersed Waters Program, Indian Town, FL. Brighton Valley Dispersed Waters Program, Okeechobee, FL.
  - Bluefield Water Farm Dispersed Waters Program, Okeechobee, FL.
  - Scott Water Farm Dispersed Waters Program, Okeechobee, FL.
- **City of Boynton Beach - Lake Ida Monthly Water Quality Monitoring for Municipal Separate Storm Sewer System (MS4) TMDL**
  Coordinates project specific needs with partnering NELAC certified laboratory. Provides surface water collection by following standard operating procedures of the Florida Department of Environmental Protection (DEP) Florida Statue (FS) 2110 (Surface Water Sampling). Also helps to collect and organize rainfall data for monthly and quarterly reports. (On-going. $58,260.52)

- **SFWMD Ecology and Environmental Scientific and Technology Support Services**
  - Spatial Soil Sampling in the C-44 and Lakeside Ranch Phase II Stormwater Treatment Areas and the Ten Mile Creek Water Preserve Area. Processed weekly soil samples for pH, Loss on Ignition, and Bulk Density analysis. (On-going)
  - Sustainable Landscape and Treatment in a Stormwater Treatment Area Study. Ecological monitoring during construction activities for flume installation. Responsible for maintenance and tracking of monitoring equipment and weather station. Collection of water quality samples and physical parameters on site. (On-going.)
  - Palm Beach County C-51 Sediment Trap Project West Palm Beach, Florida. Under SFEC contract, provided technical assistance to collect necessary stage at the coastal structure and analytical data from canal sampling to estimate sediment loading. Data collected are used to estimate current sediment trap efficiency, and the level of service (flood protection) expected in future flow conditions and under rising stage-elevation at coastal structure. ($76,814)
- **FDEP - Jensen Beach Hydrologic Restoration Project – Savannas Preserve State Park**
  Assisted in site assessment for environmental review used to obtain Environmental Resource Permit. The site assessment including, survey points, vegetation, and habitat type supported the design of three (3) low water crossing and five (5) ditch plugs and two (2) partial ditch fills intended to restore historic sheetflow and extend dry season hydroperiods.

**Lead Information Technology Director**
**South Florida Engineering and Consulting LLC**

- **Oversees assemblies and installs of PC hardware, investigates and resolves routine hardware and communications problems.** Lead contact for IT related issues and performs complex professional work with computer hardware, software, and network systems. Built and maintains high performance modeling computer. Understands principles of data communications including Ethernet, modem, VPN setup and installation and problem determination/resolution. Provides input for purchases of hardware and software needed to operate the network, servers and desktop PC's. Assists in evaluating end user needs and recommends appropriate equipment and software configurations.

# RUBEL SIDDIQUE, PE

Senior Project Manager

## EDUCATION

- Master of Engineering in Civil Engineering, University of TX at Arlington, TX, 2004
- Bachelor of Science in Civil Engineering, Bangladesh University of Engineering and Technology (BUET), 1998

## PROFESSIONAL CERTIFICATIONS

- Florida PE No. 67239
- Texas PE No. 98510
- Qualified Stormwater Management Inspector Inspector No. 29215

## PROFESSIONAL TRAINING

- FDOT Specification
- Project Management Institute (PMI)
- ICPR Software Training
- Professional Liability Training
- Advance MOT Certification

## KEY EXPERIENCE

- CEI Services
- Site Development
- Parking Lot Analysis and Design
- Water Distribution System
- Sewer Collection System
- Stormwater Management System Design
- Roadway Design
- Minor Structural Design

## SUMMARY OF EXPERIENCE

Mr. Siddique has over twenty-one (21) years of increasingly responsible professional experience in civil engineering related to site development, parking lot design, roadway and drainage design, water supply, water distribution, wastewater collection, stormwater management, project management, and Construction Inspection. Expertise ranges from initial project planning and development to construction management. Experienced in serving a diverse group of clients, including private developers, cities, counties, municipalities, drainage districts, and Florida Department of Transportation. Duties and responsibilities include project management, development of innovative project specific design solutions, leading design team, building coalitions, proactive communication with the cities, counties, state regulatory agencies, environmental groups, and other entities to solve and evaluate input for implementation. Manages and maintains a continuous liaison with functional areas regarding project status, challenges, and needs. Promotes quality performance and establishes guidelines to measure performance.

Mr. Siddique exercised technical and functional supervision, prepared necessary correspondence, daily inspection report, and punch lists. Monitors the status of projects for compliance with construction and engineering standards; recommends corrective actions as needed. As a Principal Engineer, maintain municipal client liaisons, schedules to meet client requirements and project goals, and enthusiastically lead the design team members to provide innovative design solutions and construction plans preparations, and monitoring and assuring the Quality Control processes to ensure the top-quality deliverables.

## SAMPLE PROJECTS

**WATER'S EDGE PARK IMPROVEMENT, CITY OF TAMARAC, FL**: Rubel Siddique had provided Civil Engineering Design services for the Water's Edge Park improvement. The scope included parking lot design, signing and marking, parking grading, stormwater management system, **water distribution system, wastewater collection system**, roadway milling and resurfacing, school zone singing and markings, new offsite sidewalk with ADA connection to the proposed site. Prepared construction documents, calculations and reports, permitting documents, reviewed shop drawings, performed periodic site visit, response to RFIs, resolved field issues, provide engineering certification for completed work and submitted to respective agencies to put the services in operation.

**KIRK COTTRELL PAVILION DEVELOPMENT, DEERFIELD BEACH, FL**: Plans Reviewer- Mr. Siddique had provided Civil Engineering Design services for Kirk Cottrell Pavilion redevelopment. The project includes upgrades in support of beach sporting and leisure events including expansion of bathroom facilities, a customer service counter, an interactive digital kiosk screen, ocean rescue storage, new showers, special facilities to store and wash surfboards and pavilion amenities for passive enjoyment of the beach. The scope included parking lot design, parking meter, stormwater management system, **water distribution system, wastewater collection system**.

The Pavilion has 25 parking spaces with one-way traffic circulation with concrete pavement. Out of 25 parking spots, 12 of those parking was 45-degree angle parking, 13 of those parking was 90-degree angle parking with 2 handicap parking. He also Prepared construction documents, calculations and reports, permitting documents, reviewed shop drawings, performed periodic site visit, response to RFIs, resolve field issues, provided engineering certification for completed work and submitted to respective agencies to put the services in operation.

**CAIRO LANE AND NW 127TH STREET IMRPOVEMENT, OPA-LOCKA, FL:** This is over a Five Million dollars ($5,000,000) design build project for approximately one (1) mile roadway. The scope includes reconstruction of Cairo Lane and NW 127th Street, Drainage System Installation, Water Distribution System, and Sewer Distribution System. The scope for water and sewer includes **1700 LF of 12" Water Main** along NW 127th Street, Low pressure sewer force main system. Analyzed the existing site condition and recommended Concrete pavement for poor sub-surface condition. As the lead Design Engineer and Engineer of Record, the contract documents including roadway plans, typical section, signing and pavement marking plans, construction details, maintenance of traffic plans, permits, drainage design, utility coordination, final quantities and estimates, final plan submission reviews, and supervision of drafting personnel. Project also included intersection improvement at cross streets, shoulder and sidewalk enhancements and proposed/replaced new signs as per the 3R safety report.

**MIAMI ART MUSEUM, MIAMI, FLORIDA:** As a lead design engineer of this multi-million-dollar project, attended design coordination meeting, permitting agency (City of Miami, DERM and FDOT) meetings. Designed and guided assigned workload to the design team for the construction documents preparation and permitting agencies submittals. I worked as a designer for the Water Distribution System, Sewer Collection System, and Stormwater Management System. The project consists of about **1500 LF of 12" DIP Water Main** that provides water services for both Miami Art Museum and Miami Science Museum. Attended weekly design team meetings, meetings with City of Miami, Miami-Dade Water Sewer Department for design co-ordination. Worked closely with the design architect and landscape architect to layout the site elements around the proposed Miami Art Museum Building.

**REHABILITATION OF THE CITY OF OPA-LOCKA SEWER PUMP STATION 10:** As the Engineer of Record estimated the current sewer demand based on the current land use. Analyzed the entire sewer system network associated with pump station no. 10 using the **SewerCAD** software to identify if the sewer systems downstream the proposed pump station no. 10 have adequate capacity to handle the new demand. Prepared construction plans obtained construction permits. Based on DERM NAPOT report, Pump Station 10 runtime is more than 12 hours per day, which is more than 10 hours per day and the station is in moratorium. The pumps were selected to meet DERM and EPA criteria to release the station from the moratorium. This project also includes a design of **2000 LF of 8" C-900 PVC Force Main** along Perviz Ave. Attended meetings at the City of Opa-locka, DERM, and local jurisdictions during design and construction phase. Prepared preliminary opinion of probable costs (OPC) and prepared bid plans set.

**REHABILITATION OF THE CITY OF OPA-LOCKA SEWER PUMP STATION 5:** As the Engineer of Record, designed gravity sewer system with sewer lift station to meet the current demand. Analyzed the entire sewer system network associated with the pump station no. 5 using the **SewerCAD** software to identify if the sewer systems downstream the proposed pump station no. 5 have adequate capacity to handle the new flow. Attended meetings at the City of Opa-locka, DERM, and local jurisdictions during design and construction phase. Prepared preliminary opinion of probable costs (OPC) and prepared bid plans set.

**BOYNTON TOWN CENTER/BOYNTON VILLAGE, PALM BEACH COUNTY, FLORIDA:** Estimated Wastewater demand and designed sewer collection system and sanitary sewer lift station for about 106 acres of retail complex that includes Best Buy, Target etc. **Designed 12" DIP water distribution system and 8" PVC wastewater collection system.** Reviewed and checked plans related to the water supply, water distribution, and wastewater collection structures and facilities. Analyzed the proposed drainage system by ADICPR and prepared the drainage/modeling reports and computations as required by SFWMD and LWDD. Prepared site geometry, marking and striping plans.

**BISCAYNE GARDENS ELEMENTARY SCHOOL, MIAMI, FLORIDA:** As the Engineer of Record, estimated the current sewer demand and analyzed the existing septic tank sewer systems. Designed a gravity sewer system with sewer lift station to meet the current demand. Attended meetings at the Miami-Dade County Public Schools (MDCPS), DERM, and local jurisdictions during the design and construction phase. Prepared preliminary opinion of probable costs (OPC) and prepared bid plans set.

**WESTLAB ELEMENTARY SCHOOL, MIAMI, FLORIDA:** As the Lead Design Engineer and Engineer of Record, estimated the current sewer demand and designed gravity sewer system with sewer lift station to meet the current demand. Attended meetings at the Miami-Dade County Public Schools (MDCPS), DERM, and local jurisdictions during the design and construction phase. Prepared preliminary opinion of probable costs (OPC) and prepared bid plans set.

## EDUCATION

- Masters in science, Texas A&M University-Commerce, 2003
- Bachelor of Science in Civil Engineering, Bangladesh University of Engineering and Technology (BUET), 1998

## PROFESSIONAL CERTIFICATIONS

- Florida PE No. 80669
- California PE No. 75093

## SOFTWARE SKILLS

- AutoCAD, MicroStation
- HEC-1, HEC-2, HEC-HMS
- HEC-RAS, WATPRO, XPSWMM
- TR-20, TR-55
- ArcMap, Arc Info
- STORMCAD, Water CAD, EPANet

## PROFESSIONAL TRAINING

- FDOT Specification
- Project Management Institute (PMI)
- ICPR Software Training
- Professional Liability Training
- Advanced MOT Certification

## KEY EXPERIENCE

- Site Development
- Stormwater Management System Design
- Roadway and Signal Design

## SUMMARY OF EXPERIENCE

Mr. Rahman has over twenty (20) years of Drainage/Water resource engineering experience. Effectively able to communicate complicated concepts in an understandable manner, matching the message to the audience. Public speaking and executive management briefing experience. Computer skills include AutoCAD/LDD, MicroStation, ICPR, ASAD, HE-RAS, XP-SWMM, CORSIM, VISSIM, TRANSYT 7, Synchro, HCS, CUBE, GEOPAK, and Primavera P6.

## SAMPLE PROJECTS

**MIAMI-DADE STORMWATER MASTER PLAN UPDATE, MIAMI-DADE, FL**: Mr. MD worked on updating the Miami-Dade County Stormwater Master Plan Model created by XP-SWMM. The tasks involved updating drainage basin C-1, C-2, C-3, C-7, C-8 and C-100. Task included all culverts, canal cross sections, land use, updating ground water information and finally FEMA flood map update. Validated the model through calibration with SFWMD DBHYDO data. Update the boundary conditions by considering future water elevation rise in the ocean. Produced flood map for different storm events for different future years. Produced mitigation plan to reduce flood effect in the future year.

**CITY OF OPA-LOCKA SANITARY SEWER MASTER MODEL, CITY OF OPA-LOCKA, FL**: Mr. MD created the sanitary sewer master model for the city. The city has 19 pump stations, which were included in the model with all gravity networks. Task included all pump stations, force main, pipe, manholes and rainfall data. Validated the model through calibration with MDWASD data. The model identifies the amount of rainwater infiltrating in the sewer system. Identify the locations of infiltration though rainwater or ground water.

**CITY OF DORAL LEGACY PARK, CITY OF DORAL, FL**: Mr. MD has created a wet condition mitigation study for the baseball field in Legacy Park. In the report the causes for wet condition of the baseball field were identified and potential solution has been provided. Finally, a set of plans has been produced based on the preferred alternative form the city.

**FLAMINGO PARK, CITY OF SUNRISE, FL**: SSN Engineering had provided Civil Engineering Design services for the 22 acres of Flamingo Park located at the City of Sunrise, Florida. Mr. MD designed the drainage system for the project. Make the grading for the football field and baseball field.

**CIVIC CENTER IMPROVEMENT, CITY OF SUNRISE, FL:** SSN Engineering had provided Civil Engineering Design services for the Parking lot, Civic Center, Athletic Club & Gymnasium Addition, located at the City of Sunrise, Florida. Mr. MD designed the drainage system for the project. Make the grading for the plan for the project.

**SR 997/KROME AVENUE FROM MM 16.933 TO MM 1.145, MIAMI, FLORIDA:** Krome Avenue (6.625 miles) reconstruction project in Miami-Dade County, Florida. The existing Krome Avenue was a rural two-lane undivided highway. MD served as project engineer and duties included Drainage System Design, Drainage Report preparation, Pavement Selection report production, Intersection Improvements, Roadside swale, median swale design, Exfiltration trench design, Spread analysis. Shear Path design, Mast arm signal design, and Permitting.

## EDUCATION

- Architecture (BS), Javeriana University Bogota, Colombia

## PROFESSIONAL CERTIFICATIONS

- Stormwater management inspector
- Project Management Certification PMI
- OSHA
- Steel and Erection Safety Standards
- Modern Blasting Technology
- Risk management

## PROFESSIONAL TRAINING

- 30 Hours OSHA
- PMI
- CPR/AED
- Steel Erection
- Stormwater Management Inspections

## KEY EXPERIENCE

- Construction Management and Field Inspections
- Contracts Negotiation
- Strategic Planning
- Estimating and Bids
- Quality Assurance and Control
- Clients Relationship
- Procurement
- Leadership

## WORK HISTORY

- BACO Engineering Contractor
- Wechsler Construction
- Tierra South Florida, Inc.
- SFWMD
- Engle Homes, FL USA
- Centex Homes, FL USA
- Burns & McDonnell, FL USA
- JDH & Associates, Colombia
- JST, Barcelona Spain
- Interplan, Colombia-Ecuador

## SUMMARY OF EXPERIENCE

Over 25+ years of experience managing commercial and technical organizations performing residential, engineering, and commercial. Proven track record in successful sales and project management. Managed overall performance of overseas projects with international suppliers and local personnel. Computer skills with proficiency with MS products, scheduling, and drafting tools. International experience in Latin America and Europe in a highly competitive environment, along with multi-lingual (English, Spanish) capabilities and presentation skills, a proven record of a successful construction management career. Projects value from 5 to 120 million dollars.

- Monitoring, enforcing compliance of construction drawings, specifications, scheduling, managing subcontractors, managing city and private inspectors, quality control, subcontractors' meetings, safety meetings, RFI'S, change orders. Tunnel system, PT cables and traditional structural construction.
- Project Management
- Worked with Senior VP, operations manager, field, and office core personnel to establish planning for job Execution and Logistics.
- Evaluate and maintain cost control and forecast from beginning and through the duration of project.
- Coordinates requirements of governing authorities for permits, inspections, and final approval of the project with A/E.
- Maintain submittal control, including scheduling, receiving, reviewing, approving, and expediting submittals from suppliers and subcontractors to comply with progress of CPM schedule.
- Manages client relations and participate with the development of new business for the company.
- Control invoicing from subcontractors and vendors, including review and approval of schedules of values, pay requisitions and verify compliance of subs with proper insurance coverage.
- Review and monitors QC/QA and safety.
- Supervise and assist in the development of office personnel through mentoring and on-the-job training.

## PROJECT EXPERIENCES

- **South Florida Water Management District. & Brown & Caldwell West Palm Beach. FL, Multiple projects**: Levees, roads,12 story concrete buildings for pump stations, submarine bridge piles restorations, new concrete bridges, triple, double and singles box culverts & culvert pipes, reservoirs, boat ramps, helicopter pads. Bridges with concrete piles, precast slabs deck sections & cast in place, concrete barriers, approach slabs, sheet piling walls and solar lights systems. Structures with associated mechanical control gates, control rooms, underground fuel tanks, Projects USD $65M.

- **Wechsler Construction. Coral Gables. FL. USA**. – Project Manager – "850 LEJEUNE": 4 six story residential buildings with 230 units.1.2.3 Bedrooms. Ground Pool. 2 five story office buildings. 8 story parking garage building with 780 places. Total: 1'000.000 sf.

- **Related Group. Miami. FL. - "MARTINE FINE:** "8 story building with 104 units 1& 2 bedrooms. 50% units for handicap. Parking & recreational areas.

- **Millcreek Residential. Boca Raton. FL. USA**: Superintendent – "RIVER SIDE"
  1 eight story and 2 five story residential buildings with 300 units 1.2.3 Bedrooms. Roof pool.

- **Tierra South Florida Inc. West Palm Beach. FL, USA:** Quality Control Manager / Inspector
  Multiple projects: 20 story building with 90 units. 4 buildings 8 story with 250 units.8 story parking garage building. 5 buildings 8 story with 253 units.

- **Engle Homes. Pompano Beach. FL, USA**: Construction Manager – "ISLES AT DORAL" 14 four story buildings with 80 town homes, parks, paver roads, club house. Pool. Area; 75,928 ft2. 360 two story town homes, club house, pools. Areas: 1,800 to 2,600 ft.

- **Centex Homes. Boynton Beach. FL, USA** – Superintendent – "ISLES AT WESTON" 700 Luxury single family homes, club house, pools. Acted as a liaison between the owners and the company. Manage 40 homes per year. Areas: from 3,000 to 4,500 ft2. 9 models. Value from $450,000 to $680,000 each. Project Value: USD $250 mill. Budget estimated savings of 4.5%.

- **Burns & McDonnell, Engineers, Architects. Coral Gables. FL, USA** - Resident representative: "The Everglades Restoration Project". Two pump stations with a capacity of 6,500 cf. Structure consisted of more than 35,000 cubic yards of concrete to house seven pumps each nine feet in diameter with large diesel engines. Pump stations included: Own water purification system, fuel storage tanks, concrete bridges, retaining walls, box culverts, earthwork, roadways, instrumentation, control systems. Duties: Reinforcement steel inspection, forms erection, concrete placement, precast concrete walls, equipment installation and mechanical systems. Interior areas: 40,000 ft2. Exterior areas: 56,000 ft2. Value: USD$56 million. Project on time & within budget estimated saving of 4.5%.

- **J D H & Associates, Architects, Developers. Bogotá, Colombia:** Architect Associate & Construction Manager: Managed construction and supervision of multiple projects Administration, supervision of on-site technical personnel, inspections, steel reinforcement, concrete placement, bricks walls, drywalls installation, electrical, mechanical, plumbing and interior finishing for: "Residential and Military Facilities" Police Department. 3 four story buildings, 60 two bed. Units, club house, fitness center, parking, and landscape. Area: 61,200 ft2.Value: USD$4.8 million.

  "Los Alerces". 7 story building, 12 luxury 3 bed. Units, underground parking, fitness center & meeting room. Area: 33,800 ft2. Value: USD$3.7 million.

  "Balcones De Los Alerces". 7 story building, 18 Luxury 2 bed. Units, underground parking, fitness center & meeting room. Area: 38,300 ft2. Value: USD$3.2 million.

  "Rincon de Los Alerces". 7 story building, 20 luxuries 2 and 3 bed. Units, underground parking, fitness center & meeting room. Area: 44,100 ft2. Value: USD$3.4 million.

- **Josep Sobrevias Tresserras Architects, Developers. Barcelona, Spain:** - Superintendent Control and supervision of on-site of technical personnel, material, equipment, and scheduling for: "Perafita Residential Country Club" 40 three story town homes. Area: 66,200 ft2. Value: USD$4.2 million.

- **Interplan – International Planning & Construction Co. Colombia & Ecuador**- Superintendent Control and supervision of on-site technical personnel, material, equipment, and scheduling for: "El Condado de Castilla" residential development in Bogotá, Colombia. With 32 two story town houses, Area:42,300 ft2. Value USD$2.6 million. Estimated saving of 2.5%.

  "Centropolis" residential development in Guayaquil, Ecuador. With 3 five story buildings and 57 one- and two-bedroom apartments, Total area: 35,000 ft2. Value USD$2.1 million.

## EDUCATION

- Bachelor of Science in Civil Engineering, University of Valle-Cali-Colombia, South America
- Accredited BS in U.S.A

## PROFESSIONAL CERTIFICATIONS

- Certified General Contractor CGC License No. 1528417
- Project Management Certification

## PROFESSIONAL TRAINING

- 30 Hours OSHA
- Advanced MOT Certification
- CPR/AED
- Certified Scuba Diver
- Member ASCE
- Member ECA
- Member FTBA
- Power Plant Safety Policy and Bio-Hazards

## KEY EXPERIENCE

- Construction Administration
- CPM Scheduling
- Asset Management
- Contract Negotiation
- Strategic Planning
- Estimating and Bids
- Value Engineering
- Quality Assurance
- Business Development
- Clients Relationship
- Procurement
- Leadership

## WORK HISTORY

- BACO Engineering Contractor, Inc.
- Southern Underground Industries
- Ferreira Construction
- Intercounty Engineering, Inc.
- Wharton Smith, Inc.
- TLC Diversified, Inc.
- Hole Montes Engineers
- PQH Architects and Engineers
- C Vargas and Associates

## SUMMARY OF EXPERIENCE

Over twenty (20) years of professional experience in Civil Engineering and leading all functions of Heavy Civil Construction and Project Management including Contract Administration, Accounting, Planning, Design, Processing, Specs Review, Field Supervision and Operations, Managing Staff, mentoring young Professionals, Supervising sub-contractors, Budgeting, Scheduling, Progress Reporting and Timely Completion of Projects.

## KEY RESPONSIBILITIES

- Lead field inspection services ensuring adherence to specifications, codes, and safety protocols.
- Administer all project documentation including daily reports, submittals, RFIs, and permits.
- Implement and monitor QA/QC programs and corrective action plans.
- Coordinate with local authorities for inspections, approvals, and final acceptance.
- Control invoicing from subcontractors and vendors, including review and approval of schedules of values, pay requisitions and verify compliance of subs with proper insurance coverage.
- Schedule and oversee project milestones using CPM and Primavera.
- Manage contracts and completion of several municipal, commercial and private construction projects from a variety of scopes and more than $10M.
- Monitoring the progress of contracts administration including design-build projects.
- Receive and analyze bids after award for turnover to management team.
- Execution of construction including supervision of subcontractors, and awarding sub's subcontracts and major purchase orders with vendors and suppliers.
- Work with Senior VP, operations manager, field and office core personnel to establish planning for job Execution and Logistics.
- Evaluate and maintain cost control and forecast from beginning and through the duration of project.
- Coordinates requirements of governing authorities for permits, inspections and final approval of the project with A/E.
- Maintain submittal control, including scheduling, receiving, reviewing, approving and expediting submittals from suppliers and subcontractors to comply with progress of CPM schedule.
- Manages client relations and participate with the development of new business for the company.
- Supervise and assist in the development of office personnel through mentoring and on-the-job training.
- Effectively manages project close-out tasks and warranty work.

## COMPUTER SKILLS

- Office Microsoft (Excel, Word, PowerPoint, Outlook)
- Primavera P6, Office Project (Construction Scheduling Software)
- Procore Technologies (Construction Project Management Software)
- HCSS/Heavy Job (Construction and Estimating Software)
- Textura Oracle (Construction Payment Software)
- Bluebeam (Estimating Construction Software)
- Plan Swift (Takeoff and Estimating)

- Autodesk AutoCAD
- Primavera Contract Management (Construction Management)
- ICPR (Stormwater Design Software)
- Google Drive/Office Suite, QuickBooks (Accounting)

## PROJECT HIGHLIGHTS

Most relevant projects experience in construction management and construction engineering Inspection (CEI) and field supervision during the past 15 years

- **P.S.016 New 36" Force Main (Pinellas County) – $15.2M**
  Oversaw CEI inspections and QC compliance for over 13,800 LF of pipe installation and site restoration.

- **Turkey Point Wells Recovery System (FPL) – $17M**
  QA/QC management of over 47,000 LF of HDPE/DIP piping in a nuclear facility, including site safety compliance and documentation.

- **Bay 11 Switchyard Expansion (FPL) – $2.1M**
  Conducted field inspections, drainage QA, and structural compliance for power infrastructure.

- **Key Largo Wastewater Treatment District – $4.1M**
  Led CEI and QC roles during digester tank installation and plant expansion.

- **City of Fort Myers Drainage & Utilities Upgrade – $10.5M**
  Coordinated all inspections, utility verifications, and final project documentation.

- **City of Naples Stormwater Pump Station – $3.5M**
  Inspected all civil works, monitored QC, and managed contractor progress reporting.

## ADDITIONAL PROJECTS

- Shelborne Hotel – Miami Beach FL- Civil Sitework and Underground Drainage and Utilities - $923,666.12
- Meridian Avenue - Miami Beach FL - Sofi Best Hotel Renovations -Civil Site Work and Underground Drainage and Utilities – Total Construction Value: $474,318.86
- Pine Tree – Miami Beach FL - Civil Sitework and Underground Drainage and Utilities - $420,050.59
- Nobe Development – Miami Beach FL - Civil Site Work and Underground Drainage and Utilities - $342,922.10
- Sugar Cane FCM Manufacturing Plant – Bartow Florida - Civil Site Work (Concrete Pavement work approx. 109,000 SF, 8" thick reinforced for a plan manufacturing facility) – Total Value $883,297.23
- Disney Celebration Parking Lot – Celebration FL – Sitework Construction - Concrete work: sidewalks and curbs - $119,035.00.
- Advent Medical Center – Clermont FL - Sitework Construction - Concrete work: sidewalks and curbs - $15,910.00
- Yellow Fever Creek Preserve Park - Cape Coral FL - Civil Sitework and Underground Drainage and Utilities - $1.8M
- Oil Water Separator (OWS) System including a 40'x 30'x15.5' underground tank and OWS system with soldier piles - $2.2 M - FPL-Turkey Point Nuclear Facility in Homestead FL.
- Aventura Hospital – Site work and underground facilities - $2M
- T-Mobile Warehouse – Site work, underground utilities and paving-City of Sunrise FL- $1.5M
- Design, Project Engineering and CEI Services for Nokomis Water Main System in Sarasota County FL - Utilities and Environmental Services. Approx. 8,000 feet of 8" and 12" pressure line system - $7.2 M approx. construction cost.
- Town of Jupiter Water Treatment Plant Supplemental Blend Box - $1.4 M.
- City of Sunrise Spring tree Wells - $1.3 M.
- City of Opa-Locka Florida – Cairo Lane and NW 127th Street improvements $5.1 M.
- Headworks Bypass Palm Beach County Water Utilities-South Region Water Reclamation Facility- $1.9 M.
- South Florida Water Management District (SFWMD), S-140 Pump Station Refurbishment - $4.7 M.

- Midway Pump Station-Miami Dade County Public Works. 2 MGD Stormwater Pump Station $4.5 M.
- Surfside Pump Stations, Town of Surfside Fl. Stormwater Pump Stations and Sanitary Rehab. $2.0 M
- Wallis Road Drainage Improvements, Palm Beach County Public Works - $750K.
- Indiantown Master Lift Station Rehabilitation. Loxahatchee River District (LRD) - $200K.
- Lantana Drainage Improvements. Town of Lantana Fl. - $740K
- Imperial Point Water Main. City of Fort Lauderdale - $1.5 M
- Martin County Utilities (MCU). Tropical Farms WWTP Sulfuric Acid Tank Replacement. Martin County Fl. A 13,000-GAL tank replacement with two new HDPE tanks (5,000 GAL each) including new chemical piping system and containment area coatings. - $350K
- Martin County Utilities (MCU). Martin Downs Treatment Facility. Martin County FL. Reclaim Meter Station. Construction of new reclaim water pond facility for water storage including HDPE liner Installation, a new meter station, control structure, 24" underground piping, stilling well and level controls, and littoral planting. - $480K
- Village of Palm Springs Pratt Water Treatment Plant. Palm Springs FL. Rehabilitation of four (4) filter media for water treatment process including demolition of exiting filter system, re-coating of existing concrete filter structures, installation of new filter media, piping, blowers and electrical controls for plant Motor Control Center (MCC). - $450K
- Orange County Utilities-Master Lift Station Rehab #3151 Dr. Phillips. Orlando FL.- $3.5 M
- Martin County Annual Contract. (Several projects inside Tropical Farms WWTP). Martin County Fl. 1MG Reclaimed Storage Tank, Generator Sound Enclosure, Caustic Soda Tank Replacement. - $2.5 M
- Village of Tequesta WTP. Chemical Storage Tanks Replacement. Tequesta Fl. - $178K
- Seacoast Utility Authority (SUA). High Service Pump station#7 Rehabilitation. Palm Beach County Fl. - $357K
- Town of Palm Beach. Emergency Sewer Ocean Outfall. Palm Beach FL.- $100K
- Village of Tequesta WTP. Water System Renovation. Village of Tequesta Fl. - $500K
- City of Naples Stormwater Pump Station Improvements. - $3.5 M
- City of Naples Thickener Rehabilitation. - $283K
- Nokomis Water Mains. Sarasota County Utilities and Environmental Services. $7.2M
- Port of the Islands Wastewater Treatment Plan Upgrade. Port of the Islands-Collier County. - $3.5M
- Carrel Winkler Utilities Replacement and Stormwater Drainage Improvements. City of Fort Myers Fl. - $10.5 Million Construction Cost.
- Lee County Port Authority - Southwest Florida International Airport (RSW) Midfield Terminal Complex. Construction as-built documents. Fort Myers Fl.

## AGENCY COORDINATION AND COMMUNICATION

SFEC has extensive experience working with local governments across Florida and is highly effective at coordinating with municipal staff, departments, and technical advisory committees. We understand the operational pace, approval processes, and internal dynamics of cities – whether we're supporting public works, planning and zoning, utilities, or sustainability divisions. Our team communicates clearly, responds promptly, and provides deliverables in formats that are easy for staff to review, refine, and share internally. We tailor our communications to align with agency expectations and workflows, which helps keep projects moving efficiently through both technical and administrative phases.

We have worked with municipalities of all sizes – from small coastal towns to large urban and rural governments – and we understand how resource constraints, public pressure, and regulatory obligations shape local project delivery. What sets us apart is that two members of our team have direct experience as elected officials in South Florida. This gives us an uncommon level of insight into how decisions are made, what elected officials need in order to support policy, and how to communicate with staff in a way that aligns with both technical goals and public expectations. These perspectives make our team particularly effective at bridging gaps between consultants, agencies, departments, and community leadership – a critical factor in delivering successful, actionable resilience plans.

## BUILT IN PUBLIC ENGAGEMENT EXPERTISE

Both Reinaldo Diaz, J.D. a former Lake Worth Beach City Commissioner, and Dr. Christopher McVoy, a current Lake Worth Beach City Commissioner are included on our staff which gives us a rare insight into public process, communication, and stakeholder engagement – especially helpful in a local, waterfront-based context like this. Their leadership experience in civic engagement strengthens our ability to navigate complex stakeholder dynamics.

A key strength of SFEC's approach to stakeholder engagement is our team's direct experience in local governance, regional collaboration, and environmental policy development. Our proposed Strategic Engagement and Policy Lead, Reinaldo Diaz, J.D., served as a Lake Worth Beach City Commissioner from 2022 through March 2025, where he developed a deep, practical understanding of infrastructure planning, community engagement, and the complex trade-offs cities face when addressing long-term challenges like climate resilience.

Together, this experience allows SFEC to bring not just strong engagement logistics, but deep insight into community dynamics, interagency coordination, and effective resilience policy design – all essential to the City's Stormwater Program's long-term success.

### Reinaldo Diaz, J.D.

**Reinaldo Diaz, J.D.** is a former City Commissioner for Lake Worth Beach (2022–2025), where he played a central role in guiding the City's environmental policy, infrastructure planning, and

community outreach efforts. During his tenure, he oversaw the City's Capital Improvement Plan and budget, served as liaison to multiple advisory boards – including the Education Task Force and Library Advisory Board – and helped build consensus across a diverse and engaged community. He also represented Lake Worth Beach and the Palm Beach County League of Cities on key regional bodies: the *Lake Worth Lagoon Initiative Steering Committee* and the *Palm Beach County Water Resources Task Force*. He also served on the *Governing Board of the Palm Beach Transportation Planning Agency*.

*Reinaldo Diaz, J.D. flyfishing for snook on a local beach.*

In addition to his public service, Mr. Diaz is the founder of *Lake Worth Waterkeeper*, a nonprofit member of the international Waterkeeper Alliance. In this role, he is *recognized as one of the region's leading advocates for the Lake Worth Lagoon and its watershed*, with a focus on water quality, ecosystem restoration, policy reform, and environmental education. This is inspired by a lifetime of being a local outdoorsman/guide. The organization actively collaborates with local governments, schools, and civic groups to promote lagoon stewardship and policy reform.

Mr. Diaz's work has fostered long-standing relationships with key agencies such as Palm Beach County Environmental Resources Management (ERM), Florida Department of Environmental Protection (FDEP), Florida Fish and Wildlife Conservation Commission (FWC), and the South Florida Water Management District (SFWMD), as well as a wide network of nonprofit partners including the West Palm Beach Fishing Club, ANGARI Foundation, American Shark Conservancy, FPL's Manatee Lagoon, Audubon Society, and Sierra Club.

He currently serves on the boards of the *Everglades Coalition* and the *Florida Wildlife Federation*, further reinforcing his leadership in regional and statewide conservation efforts. Mr. Diaz holds a J.D. from Nova Southeastern University's Shepard Broad Law Center, with a concentration in *land use and environmental law*. His background provides a deep understanding of local zoning, development policy, and permitting frameworks – all critical to implementing adaptive infrastructure and community resilience strategies.

This blend of policy fluency, scientific advocacy, and public service uniquely positions Mr. Diaz to lead stakeholder engagement for the Resilient Waterfront Adaptation Plan in a way that is authentic, equitable, and deeply informed by place.

## Christopher McVoy, Ph.D.

**Christopher McVoy, Ph.D.** is a soil and hydrologic scientist, Everglades expert, published author, and currently a City Commissioner for Lake Worth Beach. He is the lead author of *Landscapes and Hydrology of the Predrainage Everglades* (2011), a foundational text in the field of restoration ecology that continues to inform large-scale planning efforts across the Greater Everglades region. His scientific work reflects a deep systems-level understanding of how water, land use, and ecological processes interact over time – insight that is essential for guiding long-term, climate-resilient planning.

*Dr. Christopher McVoy working in the field.*

Dr. McVoy brings more than a decade of local government experience, having served multiple terms on the Lake Worth Beach City Commission. This public service gives him a *rare and valuable perspective on how infrastructure decisions are made, how policies evolve, and how public engagement can make or break successful implementation*. His dual role as both scientist and elected official uniquely equips him to understand the political, procedural, and community dynamics that shape complex planning initiatives like the Resilient Waterfront Adaptation Plan.

An empiricist by training, Dr. McVoy specializes in systems analysis and simulation modeling. He is also a respected educator and advocate for science-based environmental outreach, and he regularly works to bridge the gap between data and public understanding. His ability to translate technical information into meaningful, actionable strategies makes him an invaluable part of SFEC's team, particularly for stakeholder engagement, public meetings, and policy recommendations.

Dr. McVoy currently serves on the board of *Friends of the Everglades*, continuing a career-long commitment to science-based advocacy, ecosystem protection, and environmental justice in South Florida.

### Strategic Advantage for Engagement

With this unique dual perspective – science and policy, engineering and elected leadership — SFEC is positioned to design and lead a public engagement process that is not only well-executed, but also well-received. We understand the importance of building trust, reflecting community priorities, and delivering clear, consistent messages. For a public plan like the RWAP, these qualities are not just helpful – *they're essential*.

## COMMUNICATION AS A CORE DESIGN ELEMENT

SFEC treats *communication as infrastructure* – meaning that how a plan is presented is just as important as the content itself. Whether we're preparing briefings for elected officials, facilitating public meetings, or designing infographics for residents, our materials are always clear and responsive. For Hollywood's Stormwater Program Management, we will bring this same level of clarity and craft, using maps, visuals, and tools that the City can continue to update and apply beyond this planning effort.

We are also deeply experienced in community-centered communication, grounded in cultural awareness and language accessibility. Many members of our team are multilingual, including fluency in Spanish and Haitian Creole, which are widely spoken in West Palm Beach. This capacity enables us to conduct outreach that is linguistically inclusive, culturally respectful, and meaningfully engages residents who are too often left out of civic processes. From interactive maps and surveys to multilingual signage and presentations, we ensure that every communication touchpoint builds trust and invites participation.

## PERFORMANCE ON PAST CONTRACTS (COST CONTROL, QUALITY, AND TIMELINESS)

South Florida Engineering and Consulting LLC (SFEC) has a proven record of delivering high-quality work on time and within budget for federal, state, and local government clients. We achieve this by establishing clear expectations at project onset, tracking deliverables using professional project management software (e.g., ClickUp, MS Project), and proactively managing risks and schedules through internal QA/QC and milestone review processes.

We pride ourselves on the strength of our relationships with repeat clients, including the South Florida Water Management District (SFWMD), Florida Fish and Wildlife Conservation Commission (FWC), and multiple federal IDIQ teams. Our teams routinely deliver ahead of schedule, and our commitment to quality is demonstrated by multiple awards and continued contract renewals.

### Deliverables History

In over a decade of operation, SFEC has only been issued two change orders, and both were initiated by the client – *not as a result of performance or oversight on our part*:

1. In the first instance, the client requested a scope expansion after recognizing the high quality of SFEC's early deliverables and wanted to increase the scale of the work. We were able to quickly reallocate staff and resources to accommodate this request without delay to the project.
2. In the second case, the client had flagged a potential need for supplemental field data during contract initiation but chose not to include it in the base scope. Once the project was underway, the client formally requested the additional data collection under a contract modification, which SFEC executed efficiently and on budget.

SFEC works diligently to prevent cost overruns or midstream changes, and we maintain open lines of communication with our clients to anticipate needs and minimize surprises. Any adjustments to scope have reflected client-driven improvements, and our ability to adapt while maintaining cost control is a core strength of our project delivery model.

SFEC's past performances on contracts with various government agencies and private industry clients demonstrates positive performance and successful accomplishment of all assigned tasks. The project examples described in this proposal demonstrate that *the SFEC team of engineers and scientific/technical support staff (including sub-consultants) is ready to provide experienced, expert consulting services in all listed required service areas*.

## QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

SFEC maintains a proactive and transparent QA/QC process led by our Principal Engineer and supported by designated task leads. Quality control is embedded at three levels:

1. **Task-Level Review**: Each deliverable is reviewed by the technical lead before internal distribution.
2. **Internal Peer Review**: A secondary staff member with relevant expertise performs an independent check, verifying technical accuracy, formatting, and alignment with scope.
3. **Principal-Level Approval**: Before submission to the City, all materials undergo a final review by the Principal Engineer, ensuring consistency, clarity, and compliance with grant and procurement requirements.

We use ClickUp for task tracking, deliverable scheduling, and accountability management, allowing us to manage complex deliverables across interdisciplinary teams. Meeting notes, document versions, and schedule adjustments are all tracked in real time, ensuring transparency across the team.

Our quality approach also applies to stakeholder engagement, where public-facing materials are reviewed for clarity, accessibility, and consistency with City branding and messaging goals.

### Workflow

SFEC begins all projects by discussing project-specific goals and objectives with the client's PM. Although the City's scope of work clearly outlines expectations, in our experience, it is important that the client and SFEC staff review these together to confirm the same understanding of approach, methods, and budget. This helps to establish a clear appreciation of expectations (tasks, deliverables, and timelines) and facilitates ongoing communication throughout the assigned project. Within an agreed-upon timeline (typically within one to two weeks), the SFEC PM will submit meeting notes and a concise work plan including deliverable schedule.

The status of all project deliverables is routinely tracked using Project Management software. SFEC uses a variety of PM tracking tools and techniques, including online dashboards, password-protected file-sharing systems, and a host of other tools (ESRI, ClickUp, MS Project

and others) to meet the needs of each project. We select the software package that best meets the needs of our clients. A key to the success of our approach to schedule control is our project managers' knowledge and experience in the use of scheduling tools, which allow the early identification of issues with the potential to impact.

In addition to scheduling tools, SFEC has developed a variety of techniques to make sure project deliverables are provided on time and within budget. Our wide-ranging modeling and design experience helps us to have realistic expectations for the time needed for data collection and data review/evaluation, model calibration, model alternative development, and the production of meaningful/actionable reporting and design documents. The SFEC team is already deeply knowledgeable of the relevant watershed hydrologic, rainfall, and topographic information needed and very familiar with the City's shoreline along the Lake Worth Lagoon. *The SFEC team is ready to begin working on the City's Resilient Waterfront Adaptation Plan on day one*.

## Examples

For the East Lake Tohopekaliga project, SFEC was able to reduce the costs of the proposed project by identifying project alternatives and management measures that maintained or even exceeded the original project benefits while reducing overall costs. SFEC identified that the originally planned weir was unnecessary, costly, and would likely reduce rather than enhance environmental benefits associated with the planned drawdown project. By using a structure immediately upstream of the originally proposed weir location, the project not only had an expanded footprint (allowing for oxidation of muck in highly impacted areas) but also reduced potential environmental impacts associated with the original weir plan. Our adaptability and small business flexibility allow us to quickly develop, keeping us within budget.

The SFEC Team routinely works with a variety of subconsultants, and our PM is accustomed to managing resources from across all working groups. Our PM will facilitate data flow, communication, identification of uncertainties and data needs, and will rapidly apply necessary resources to resolve outstanding issues.

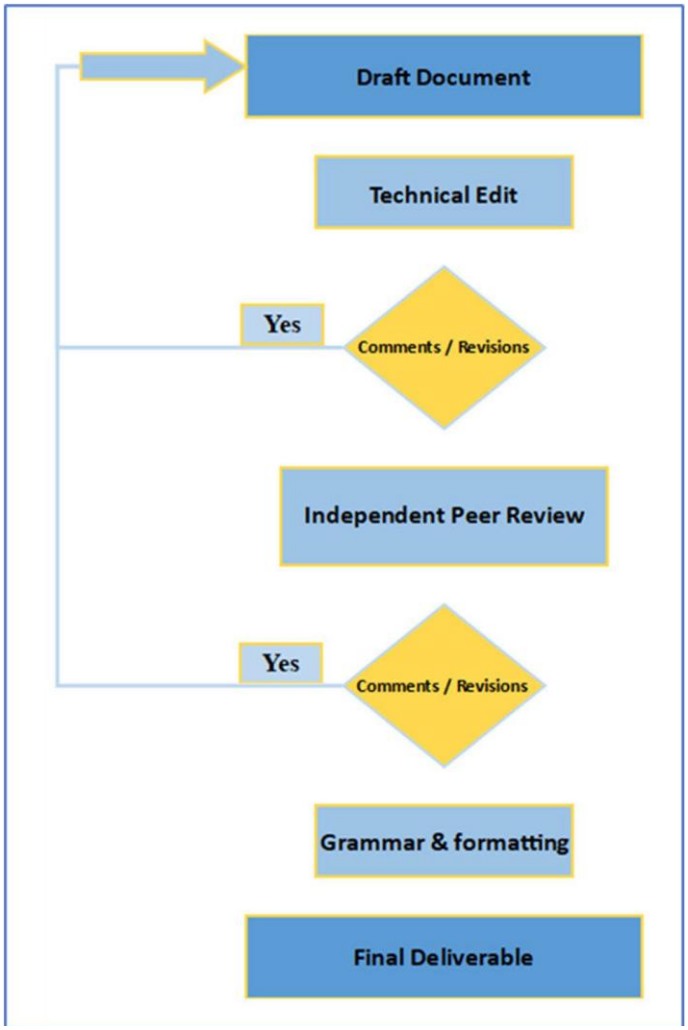
Our team's experience has resulted in cost savings for many of our clients. SFEC's cost management strategy has proven itself for a variety of projects, including hydrologic modeling, project alternative development, and construction. For the Dinner Island Wildlife Management Area (WMA) and J.W. Corbett WMA Hydrologic Assessments, SFEC recognized that detailed elevation data would be critical to develop the hydrologic model and related restoration scenarios. SFEC had previously worked with our subcontractors to install survey monuments in areas lacking local benchmarks. This allowed the team to use Real-Time Kinematic GPS to both validate recently acquired LiDAR and correct for bias in the LiDAR.

This application of RTK GPS reduced project survey costs by limiting surveys to canal cross sections, structures, and essential benchmarks and allowed the team to collect additional biologically relevant data only from client-initiated project scope expansions, either for

additional data or simply because the client liked our work so much. We work hard to avoid change orders other than those requested by clients.

## QA/QC Process

Given our rigorous QA/QC, continuous improvement, and continuing education programs, all products meet or exceed the needs of our clients. SFEC's staff have authored many of the QA/QC protocols utilized by local and state agencies. Our products undergo internal team and external peer review prior to being delivered to our clients. Additionally, our team includes expert technical writers and technical editors. These internal processes, along with detailed project management and ongoing communication with the City's Project Manager (PM), will ensure quality products delivered for each task, both on time and within the established budget.




*SFEC deliverable QA/QC review process.*

SFEC utilizes Quality Management Planning (QMP) and Continuous Quality Improvement (CQI) to identify the appropriate project technical resources and back up resources to address QA/QC review. This allows us to provide a seamless transition if key project roles need to be changed. The larger SFEC team has the capacity that a new QA/QC representative with an appropriate technical background can readily be assigned by the Program Manager.

## Summary of SFEC's Quality Management Plan

1. *Develop a Detailed Work Plan*. The work plan for each task order or project establishes the major tasks, identifies appropriate technical staff who will complete the tasks, estimates how much time the tasks will take, designates the quality control review staff, and details the project schedule for completion.
2. *QA/QC Responsibility*. SFEC Project Manager or Project Technical Lead will assign qualified professionals to conduct QA/QC for each project area. All assigned QA/QC representatives will have the appropriate technical background, and any necessary special

discipline training or expertise.QA/QC review comments are then addressed by our technical working group before submitting for final internal review.

3. *Peer Reviews*. SFEC coordinates peer reviews to check work and provide oversight of work activities. Qualified individuals who are not directly responsible for performing project tasks will conduct peer reviews—offering an unbiased technical evaluation at every step of the project. Given our team resources, we can readily identify independent technical reviewers. As needed, SFEC staff have extensive experience coordinating external peer review panels.
4. *Detailed Project Documentation*. All documents will be supported by appropriate data and work papers that detail the choices that were evaluated and the basis for recommendations. A file of all inspections conducted by the Contractor and corrective actions taken. This includes follow-up inspections to ensure that corrective action was appropriate, complete, and timely. Documentation will be logically and chronologically organized, kept current, and be made available to the Contracting Officer during the term of the contract.
5. *Project Management*. The Project Manager will evaluate each project deliverable for clarity, accuracy, completeness, and scope compliance. Quality work is the direct result of careful, properly sequenced and supervised production, and continuous checking of each work element for completion and correctness by the task leader and project manager. At the project manager's level, the quality review is continuous so that deliverables meet our clients' needs. At the end of each phase, a QA/QC review will be conducted internally (within the project team), as well as through a peer review process as one of several checks to make sure project deliverables not only are technically correct but also meet our client's goals and objectives.

SFEC's formal QA/QC program is based upon assigning experienced, senior professionals who are qualified and previously managed similar projects to serve as independent quality control reviewers.

Given the depth, capacity, and structure of the SFEC Team, SFEC can readily supply experienced, qualified independent project reviewers. Any changes or modifications required to respond to the comments and recommendations of the peer review team will be incorporated prior to submitting and all deliverables.

## Schedule and Budget Control

SFEC prides itself on managing projects such that all deliverables are provided to our clients on time and on budget. Given our experience as agency employees, SFEC understands the importance of maintaining schedule and budget. After over two decades in business, SFEC only required two change orders. Both change orders were requested on behalf of the client. In one case the client noticed early in the process that they were very pleased with SFEC's quality work, so they expanded the scope. SFEC was able to rapidly shift resources to accommodate the client.

The second change order was partially outlined by the client at the start of the project where there was a possible need for data collection not listed in the scope.

## FINANCIAL RESOURCES

SFEC is financially sound and fully capable of undertaking a multi-year engagement with the City of Hollywood. We will provide a Financial Summary Statement from our Chief Financial Officer as required (on company letterhead) to demonstrate our financial stability (see attached placeholder document). In summary:

- Financial Stability: SFEC has been in continuous operation since 2005 with a consistent record of positive earnings and growth. We maintain a healthy balance sheet with sufficient working capital and lines of credit to support project operations.
- No Financial Liabilities: The firm has no bankruptcies, defaults, or financial judgments in its history. We have never failed to complete a project due to financial issues.
- Insurance & Bonding: SFEC carries all required insurance coverages (General Liability, Professional Liability, Workers Comp, etc.) at limits meeting or exceeding City requirements. Although this RFQ is for professional services (CCNA), if any performance bond or surety was ever required for task orders, SFEC has bonding capacity available through a reputable surety.
- Resource Availability: We have the financial resources to immediately assign staff and initiate the program without any delays. Our cash flow is robust, ensuring we can comfortably cover project expenses (payroll, subconsultants, etc.) in advance of reimbursement from the City.

*SFEC is prepared to furnish any additional financial documentation the City may request under separate cover.*

### Insurance Coverage

SFEC maintains all insurance coverages required for public-sector contracts and federally funded projects. Our policies meet or exceed the minimum thresholds established by the City of West Palm Beach, including:

- Commercial General Liability
- Professional Liability (Errors & Omissions)
- Automobile Liability
- Workers' Compensation and Employer's Liability

Certificates of insurance will be provided upon award and can be modified to reflect specific language required by the City or its grant funders, including additional insured endorsements or waiver of subrogation where applicable.

As a firm regularly engaged in work with agencies such as FDEP, SFWMD, and municipal governments, SFEC understands the importance of maintaining active, verifiable coverage throughout the life of a project. We work with an established insurance provider experienced in government contracting, and we ensure timely renewals and responsiveness to certificate requests.

## LEGAL PROCEEDINGS AND PERFORMANCE

SFEC is pleased to report an excellent record of contract performance with no adverse legal actions that would reflect poorly on our ability to deliver this project.

- Liquidated Damages: SFEC has never been assessed liquidated damages on any project.
- Default Terminations: SFEC has never been terminated for default by any client. All contracts undertaken by our firm have been completed successfully or are on track for successful completion.
- Legal Proceedings (Last 5 Years): SFEC has no legal proceedings (lawsuits, arbitration, or claims) filed against it in the past five years related to performance or professional services. We have not been a party (plaintiff or defendant) to any litigation with clients or subcontractors regarding our work. (Note: This excludes minor administrative proceedings such as workers' compensation claims or other routine matters not pertinent to contract performance.)

We maintain a strong track record of professional conduct and maintain appropriate levels of insurance coverage for professional liability, general liability, and worker's compensation. We are committed to ethical business practices and proactive communication with clients to prevent and resolve any potential issues before they escalate.

Should the City require additional details, SFEC is prepared to provide formal affidavits or releases to verify our clean record. The attached letter in this tab, signed by an authorized company officer, formally confirms the above statements for the City's records.

# Tab D: Approach to Scope of Work

*Calopogon tuberosus var. tuberosus*

**South Florida Engineering and Consulting LLC**

***Environmental Solutions through Science and Technology***

# D. Approach to Scope of Work

This proposal demonstrates SFEC's ability to deliver the comprehensive services requested in this solicitation. In addition, SFEC has well-established procedures to ensure accurate and reliable delivery of our work.

SFEC's approach is designed to fully meet the City's needs as outlined in the RFQ's Scope of Work (Section 4). We will provide a proactive, hands-on Program Manager supported by a multidiscipline team to carry out all tasks from planning through construction. Our methodology emphasizes thorough planning, rigorous project controls, close coordination with City staff, and clear communication with stakeholders at every stage. Key elements of our approach include:

- **Program Planning & Controls**: Upon award, SFEC will develop a comprehensive Program Management Plan covering governance, communication protocols, risk management, and quality assurance. We will immediately familiarize ourselves with Hollywood's Stormwater Master Plan and the list of prioritized projects. The Program Manager will work with City staff to establish detailed project implementation plans for each approved project, including scope definitions, cost estimates, and schedules. We will set up a master program schedule (incorporating all CIP, interim, and R&R projects) and implement tracking tools (e.g. MS Project or Primavera) to monitor progress. Key performance metrics (schedule adherence, budget status, permitting progress, etc.) will be defined and reported monthly. SFEC will use these controls to keep the program on time and on budget, quickly identifying any variances and corrective actions.
- **Procurement & Contract Administration**: SFEC will support the City in procuring all necessary design consultants, contractors, and vendors for the stormwater projects. We will coordinate with the City's Procurement Services to prepare solicitations (RFPs/RFQs for design, bid packages for construction). Our team has direct experience with CCNA selection processes and will ensure that bid documents and scopes are clear and attract high-quality responses. The Program Manager will assist in evaluating proposals and bids – providing analysis of cost, qualifications, and project approach for each bidder. We will facilitate selection committee reviews and negotiations, then help prepare City Commission agenda items (resolutions, staff summaries) for contract awards. Once contractors and consultants are on board, SFEC will manage each work order/contract on the City's behalf: tracking deliverables, reviewing invoices against progress, and negotiating any necessary change orders or amendments in the City's interest.
- **Design Management & Technical Oversight**: SFEC will oversee all engineering design activities to ensure they meet the City's standards and objectives. For each CIP project, we will hold a kick-off with the selected design consultant to communicate expectations (including adherence to Hollywood's forthcoming design standards for stormwater, which SFEC can help develop). Our Senior Stormwater Engineer will perform in-depth design reviews at every phase (30%/60%/90% plans) to confirm hydraulic performance, constructability, and compliance with regulatory requirements. We will coordinate value

engineering workshops if appropriate to optimize solutions and reduce costs. SFEC will maintain consistency across projects by developing standardized details/specifications (for example, standardized pump station designs, backflow preventer models, swale restoration specs) that all designers should follow. If needed for schedule, our team is capable of performing expedited in-house design on smaller urgent projects (under Task 8) – for instance, designing quick-turnaround installations of backflow preventers or temporary pumps to address immediate flooding concerns. In all cases, we will ensure that design deliverables align with the Master Plan's intent and that any design issues are resolved early.

- **Permitting and Agency Coordination**: Navigating permits is critical for timely project delivery. SFEC will prepare a Permitting Plan for each project, identifying all required approvals (e.g. SFWMD Environmental Resource Permit, Broward County Water & Environmental License, FDEP permits for coastal work or injection wells, Army Corps permits for Intracoastal connections, FDOT permits for work in state road right-of-way). We will engage early with regulatory agencies – for example, conducting pre-application meetings to clarify requirements and review preliminary designs. Our Program Manager will act as the City's representative in all permit discussions, and our team will compile and submit complete permit packages promptly. We are familiar with Hollywood's local codes and will ensure designs conform to City stormwater ordinances (e.g. drainage criteria, finished floor elevation requirements). SFEC will also handle FDOT coordination for projects involving state roads or the FDOT drainage system – our team's FDOT experience allows us to effectively manage Joint Participation Agreements (like the Johnson Street culvert FDOT JPA project) and secure required transportation permits. Additionally, we will coordinate with utility companies and adjacent municipalities if projects impact their infrastructure. By proactively managing the permitting process, SFEC will prevent delays and keep projects construction ready.
- **Construction Management & CEI**: SFEC will provide end-to-end construction phase services as the City's representative (Owner's Agent) on each project. Before construction, we will conduct pre-construction meetings to establish protocols and communication lines between contractors, City departments, and residents. During construction, our CEI Manager and inspectors will be on-site regularly to monitor workmanship, safety, and progress. We will use daily inspection reports, photo logs, and drone surveys (if useful for large sites) to document construction. Our team will manage all aspects of construction administration: reviewing shop drawings and materials for compliance, responding to RFIs, and coordinating any design adjustments with the engineer-of-record. We will closely track schedules and require recovery plans from contractors if there are delays. The Program Manager will hold weekly construction progress meetings for active projects and keep City staff informed of status. SFEC will also ensure quality assurance by arranging necessary field testing (e.g. soil compaction tests, exfiltration trench percolation tests, concrete strength tests) in accordance with project specifications. Importantly, we will enforce maintenance of traffic (MOT) plans to

minimize disruption, especially in residential areas and near critical facilities (schools, hospitals). If unforeseen issues arise (utility conflicts, unexpected groundwater conditions, etc.), SFEC will quickly coordinate solutions between the contractor and design engineer, always prioritizing the City's interests in any change order negotiations. Our goal is to deliver each construction project with zero safety incidents, on schedule, and with workmanship that meets or exceeds the City's standards. At project closeout, we will verify the completeness of punch-list items and ensure all as-built documentation is delivered for City records.

- **Public Outreach and Community Coordination**: Consistent with the RFQ, SFEC will implement a robust public outreach program to foster transparency and keep the community informed. Early in the program, our Outreach Lead will work with the City to identify stakeholder groups for each project (e.g., neighborhood associations in Hollywood Lakes, business owners in affected corridors, the Hollywood Beach Civic Association for barrier island works, etc.). We will prepare Public Involvement Plans tailored to each project's community. Typical outreach activities will include public meetings/workshops at project kickoff and prior to construction in a neighborhood; distribution of construction notices/flyers to residents detailing timelines and contact information; project updates on the City's website and social media; and dedicated contact channels (phone hotline or email) for residents to ask questions or report concerns. SFEC's team will host presentations for the City Commission and City administration whenever needed to update on progress or highlight upcoming milestones. We will also coordinate closely with Hollywood's Public Affairs/Communications office to ensure consistent messaging. Our approach is to be responsive and accessible – the Program Manager and Outreach Lead will promptly address citizen inquiries and attend any emergency community meetings (for instance, if a flood event occurs, we can join City officials in public forums to explain ongoing measures). Through diligent outreach, SFEC will help maintain public support and understanding of the stormwater projects, which is essential for long-term program success.
- **Funding, Grants & Financial Management**: SFEC knows that Hollywood is leveraging multiple funding sources (city funds, bonds, state/federal grants) for stormwater improvements. We will actively support the City in all grant-related efforts. Our Grant Specialist will maintain a calendar of grant opportunities (e.g. FDEP Resilient Florida, FEMA BRIC, EPA stormwater grants) and help prepare compelling applications with benefit-cost analysis and alignment to the City's Climate Action goals. We will ensure compliance with any grant requirements – for example, monitoring and documenting metrics for grants that fund the "Recapture the Swale" program or pump station installations. Additionally, SFEC will assist with bond issuance support as required under the scope. This could involve providing technical input or data for bond feasibility studies, attending bond committee meetings, or packaging project information that demonstrates the need and impact of bond-funded improvements. On the financial management side, the Program Manager will track budgets meticulously for each project

and the overall program. We will implement a financial dashboard that shows expenditures, percent complete, and remaining budget for each task order. SFEC will prepare any needed budget augmentation requests or re-allocation recommendations if certain projects come under or over budget. By keeping a tight handle on finances and proactively seeking grants, we will help Hollywood stretch its stormwater dollars further and achieve more improvements within the available funding.

- **Asset Management and O&M Integration**: A unique aspect of our approach is ensuring the new infrastructure is seamlessly integrated into Hollywood's asset management and maintenance programs. As projects reach completion, SFEC will work with the City's Public Utilities operations division to update asset inventories and preventive maintenance schedules. For example, if a new pump station is built, we will help create the maintenance work order templates for that station in the City's asset management system (e.g., Lucity or Cityworks). We will also provide training or documentation for City maintenance staff on any new technology installed (pump controls, tide valve maintenance procedures, etc.). Our goal is to enhance the City's long-term capacity to operate and maintain the stormwater system improvements efficiently. Additionally, SFEC will maintain the City's stormwater hydraulic model (likely developed as part of the Master Plan) – updating it with data from new projects and running scenarios as needed to evaluate future proposals. For instance, if a developer proposes a large development, we can run the model to see its impact on the system and advise the City accordingly (fulfilling the role of City engineer for development permits as requested in the RFQ tasks).
- **Flexible, On-Call Responsiveness**: SFEC understands that the City's needs may evolve over the 10-year horizon of this program. We have built flexibility into our approach. Our contract will function as a continuing services agreement, allowing the City to task us swiftly with unanticipated projects or emergency response. Whether it's a newly identified flooding hotspot, a grant that funds a sudden opportunity, or a need to coordinate with a concurrent City project (e.g., a water main upgrade or roadway project in the same area), SFEC will adapt and respond. We can mobilize additional designers or field crews on short notice for fast-track assignments. Our team's diverse skill set means we can handle "other services not clearly specified" as mentioned in the RFQ – from conducting specialty studies (water quality analyses, climate resilience assessments) to assisting with inter-departmental initiatives (like coordinating stormwater improvements with the City's septic-to-sewer conversion projects). Throughout the contract, the Program Manager will remain in close communication with City management to re-prioritize or add new tasks based on funding, Commission directives, or emergency events. In sum, SFEC's approach is not only thorough and methodical, but also agile and customer-focused – we will function as a reliable partner to the City, ready to go above and beyond the listed scope to ensure Hollywood's stormwater program meets its goals.

## KNOWLEDGE OF SITE AND LOCAL CONDITIONS

SFEC has extensive knowledge of Hollywood's local conditions and the regulatory environment in which the City's stormwater projects will be implemented. Our team's experience working in Broward County and coastal South Florida communities has prepared us to hit the ground running. Key aspects of our local knowledge include:

- **Coastal Geography & Flood-Prone Areas**: Hollywood's geography presents significant stormwater challenges. Much of the city is low-lying and flat, with poor natural drainage and a high water table. The Hollywood Lakes area around North Lake and South Lake, for example, lies only ~2–3 feet above mean sea level – making it highly susceptible to tidal flooding and storm surge hollywoodfl.org. We are familiar with the chronic street flooding that occurs in these neighborhoods during King Tide events and heavy rains. The City's barrier island (Hollywood Beach) faces Atlantic Ocean impacts on one side and Intracoastal Waterway on the other, creating a twin vulnerability to coastal flooding. SFEC understands the specific neighborhoods listed in the RFQ as priority areas: from Moffett and Eco Grande (Hollywood Lakes south and north) to Oakwood Hills (Liberia), Sunset Park (North Central), Driftwood, Boulevard Heights, and others. Each area has unique drainage issues – for instance, the North Central neighborhoods suffer from inadequate outfall capacity and poor soakage, while eastern Hollywood needs tidal barriers and pump infrastructure. We have studied the City's Stormwater Master Plan recommendations and the April 2025 workshop outcomes, which identify the specific projects to address these issues. Our familiarity with Hollywood's terrain (including critical elevations, existing canal and lake systems, and pump station locations) will allow us to tailor solutions that fit the local context. We also recognize Hollywood's efforts to utilize green infrastructure (e.g. the "Recapture the Swale" program) to enhance percolation in these flat, low-lying areas – a strategy we fully support and will incorporate where feasible.
- **Climate Resilience and Sea-Level Rise**: Hollywood, like other South Florida cities, is already witnessing the effects of climate change – from more intense rainfall events to rising seas. SFEC stays up to date on regional sea-level rise projections (as established by the Southeast Florida Climate Compact) and we will integrate these into project planning. We are aware that Hollywood has proactively pursued resilience initiatives, such as constructing tidal flood barriers along public seawalls in North and South Lakes hollywoodfl.org and elevating roads on the barrier island to mitigate sea-level rise impacts hollywoodfl.org. SFEC's team has direct experience designing projects with these future conditions in mind. For example, when sizing stormwater pumps or determining seawall heights, we will use the City's adopted sea-level rise scenario to ensure infrastructure remains effective for its intended lifespan. We understand that groundwater levels are rising as well, which can reduce the effectiveness of traditional gravity drainage – reinforcing the need for innovative approaches (pump systems, injection wells, higher outfalls) in Hollywood's context. Additionally, our team is

knowledgeable about hurricane impacts: we will ensure that all new pump stations and critical facilities are designed for hurricane wind loads and storm surge, with backup power provisions for operations during storms. Our local experience includes post-hurricane recovery efforts (dewatering flooded areas, assessing storm damages), which adds to our appreciation of designing robust stormwater systems for Hollywood.

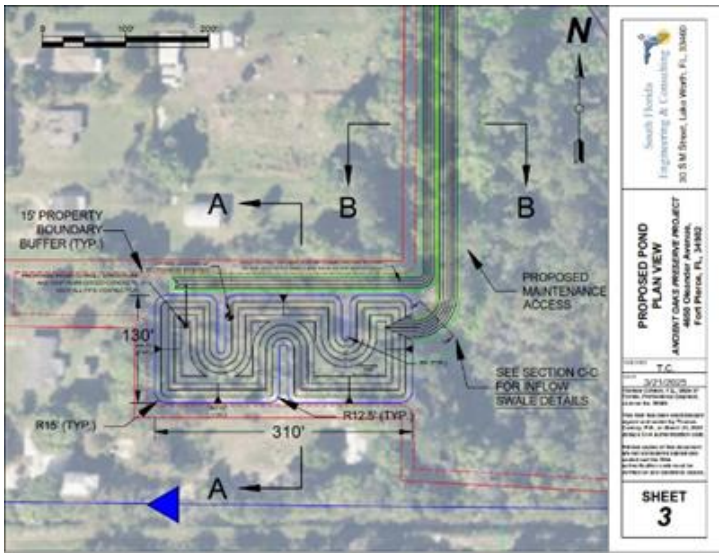
- **Regulatory Environment & Permitting Knowledge**: Executing projects in Hollywood requires navigating a complex set of local and state regulations. SFEC has significant experience with all pertinent permitting agencies and codes. We are well-versed in City of Hollywood's stormwater and floodplain management ordinances, including any freeboard requirements for new construction and the City's participation in FEMA's Community Rating System (CRS) program. At the County level, we routinely obtain Environmental Resource Licenses from the Broward County Environmental Protection & Growth Management Department, ensuring that water quality and pretreatment criteria (like the 1-inch retention or 2.5 inches over 24 hours rule, as applicable) are met for new drainage projects. Our team also works frequently with the South Florida Water Management District (SFWMD) on Environmental Resource Permits – we understand their design criteria for discharge, retention, and wetland protection, and have relationships with SFWMD staff to facilitate reviews. For coastal projects, we know the permitting channels with the Florida Department of Environmental Protection (FDEP), especially relating to coastal construction control lines and mangrove protection (relevant to any work along the Intracoastal or lakes). SFEC has successfully permitted tidal control structures and seawall improvements through FDEP. In addition, we have experience securing Army Corps of Engineers permits when needed (for example, if any project were to impact federal navigable waters or wetlands). Another critical jurisdiction is FDOT – Hollywood has state roads like US-1 and A1A, and some stormwater outfalls tie into FDOT systems. Our familiarity with FDOT drainage connection permits and maintenance agreement requirements will ensure state coordination is smooth. We also are prepared to assist Hollywood in meeting any water quality regulations (NPDES MS4 permit requirements for stormwater) by ensuring our projects incorporate best management practices to improve runoff quality (exfiltration trenches, baffle boxes, etc.). Overall, SFEC's comprehensive knowledge of the regulatory landscape in South Florida means we can anticipate approval requirements and avoid permitting delays for Hollywood's projects.
- **Construction Logistics & Public Safety in Urban Areas**: Implementing infrastructure projects in a built-out city like Hollywood requires careful planning to minimize impacts on the community. SFEC has on-the-ground experience working in dense urban and residential environments. We understand the traffic challenges in Hollywood – from coordinating lane closures on busy thoroughfares like Hollywood Boulevard or US-1, to working on narrow local streets in residential neighborhoods where access must be maintained for residents and emergency services. Our team is skilled in designing and reviewing Maintenance of Traffic (MOT) plans that account for local conditions (for instance, scheduling road work in school zones during off-hours or providing alternate

routes for beach traffic when working on causeway roads). Hollywood's stormwater projects will often occur in "live" environments (occupied neighborhoods, near businesses), so public safety and maintaining quality of life are top priorities. SFEC will leverage techniques such as phased construction (to avoid leaving large open excavations), proper signage and lighting for any detours, dust control measures, and noise mitigation during construction. We are also familiar with working around utility conflicts – Hollywood's underground is filled with utilities (water, sewer, gas, telecom), especially in older neighborhoods where records may be limited. Our knowledge of local utility layouts and coordination with utility owners (Florida Power & Light, telecoms, etc.) will help prevent surprises. Additionally, SFEC recognizes Hollywood's commitment to historic and environmental preservation; for projects in or near sensitive sites (historic districts or natural areas like West Lake Park), we will coordinate with the relevant City and County authorities to ensure compliance with any special requirements. By drawing on our extensive local field experience, we will implement construction strategies that keep the community safe and informed, while delivering projects efficiently.

In summary, SFEC's intimate knowledge of Hollywood's physical setting, climate challenges, and regulatory requirements will be a tremendous asset in executing the Stormwater Program. We won't face a learning curve – our team understands the local conditions from day one. This knowledge, combined with our technical skills, means we can foresee potential issues and craft solutions that are tailor-made for Hollywood's needs (whether it's dealing with tidal flooding in Hollywood Lakes, high groundwater in Emerald Hills, or coordinating multi-agency efforts in a complex urban corridor). Our local insight will help ensure the City's stormwater projects are not only well engineered, but also practical and effective given Hollywood's unique environment.

## AN EXAMPLE OF ADAPTABLE APPLICATION

While not an example of a comprehensive Stormwater Program Management, **the Ancient Oaks Stormwater Treatment Area in Fort Pierce** illustrates the type of site-specific, adaptive solutions that can emerge from larger watershed planning efforts. Designed for St. Lucie County, this project addressed chronic flooding near a popular public park while also meeting the County's request to improve water quality through green infrastructure design.




*Ancient Oaks pond design.*

The project site posed two major challenges: a limited footprint, constrained by an active recreational area, adjacent residential neighborhood, and the need to balance stormwater management goals while maintaining a water quality component. SFEC developed a compact, green infrastructure solution that maximized water treatment within tight spatial limits. By creating an engineered pond with a large littoral zone, the design supports native vegetation, nutrient uptake, and habitat enhancement, while still maintaining full stormwater capacity.

SFEC designed a compact stormwater management pond to address chronic flooding affecting a nearby public park in a space-constrained urban setting. The project presented the dual challenge of ensuring adequate stormwater capacity while meeting the client's goal of improving water quality through ecological design. To address this, our team developed a unique layout that maximized littoral zone area within the available footprint, incorporating native vegetation and strategic grading to support nutrient uptake, filtration, and habitat enhancement. This green infrastructure solution exemplifies how technical and environmental goals can be integrated even under spatial and regulatory constraints.

*This project highlights SFEC's capability of carrying out innovative green infrastructure solutions in challenging circumstances with constrained limitations – just one example of many potential projects that contribute to better water quality while still addressing stormwater management and resilience needs.*

Located adjacent to the 38-acre Ancient Oaks Preserve and Weldon B. Lewis Park in Fort Pierce, this project addressed chronic flooding issues that threatened a popular public park featuring athletic fields and playgrounds. The site's proximity to environmentally significant natural areas added ecological sensitivity to the project constraints.

*Ancient Oaks stormwater pond shortly after landscape installation.*

The project faced two key challenges: *Limited space* – required to fit a functional stormwater pond within the park's developed footprint without encroaching on recreational, natural areas, or residential neighbors. *Dual objectives* – ensuring adequate flood control while enhancing water quality through ecological design, aligning with the County's priorities for native landscaping and nutrient reduction.

*Ancient Oaks pond Littoral Zone.*

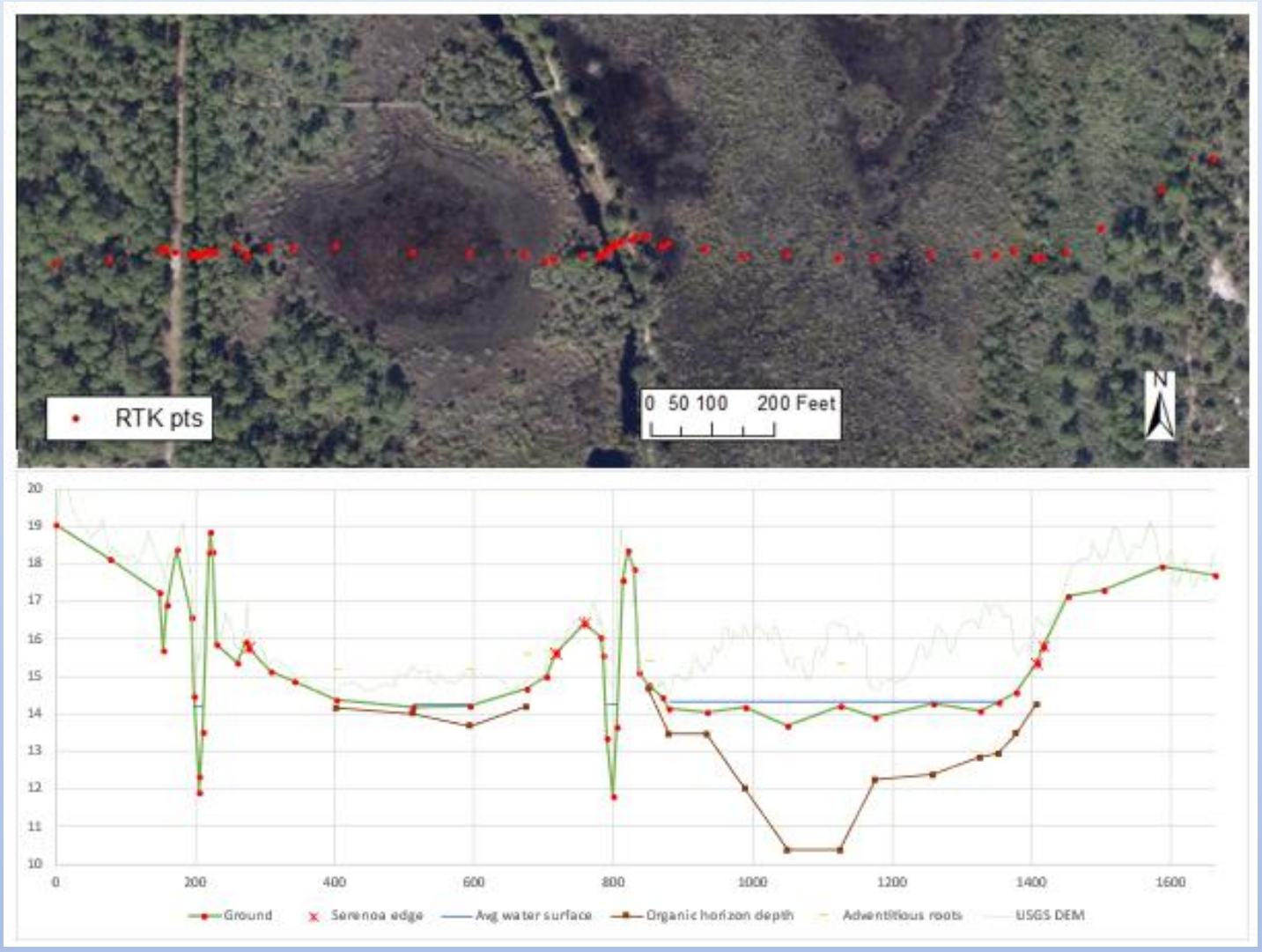
SFEC's design maximized the littoral zone, creating extensive shallow, planted edges throughout the pond to foster natural filtration, habitat value, and pollutant uptake. We used native plants along graded zones to enhance nutrient cycling and pollutant removal while maintaining full stormwater detention capacity. Recently planted, this pond is already being used by local wildlife. This hybrid infrastructure meets both water quality goals and volume control needs in a compact, visually appealing, and ecologically supportive design.

*Whistling Duck already at Ancient Oaks stormwater pond.*

The finished pond will successfully reduce flooding in adjacent park areas while improving aesthetics and ecological function. It will serve as a subtle yet powerful example of how stormwater infrastructure can function as both utility and amenity – plugging into public recreation while supporting the local ecosystem. *It enhances aesthetics, provides birdwatching and educational value, and contributes to ecosystem function – all while quietly performing its primary job: reducing flood risk in an urban setting*.

This project demonstrates SFEC's ability to deliver multi-benefit infrastructure in complex contexts – an essential capacity when planning for the layered demands of resilient, community-integrated design.

# Tab E: References – Vendor Reference Forms




**South Florida Engineering and Consulting LLC**

***Environmental Solutions through Science and Technology***

## E. References – Vendor Reference Form

Below we provide three (3) client references for recent projects similar in scope and complexity to the City of Hollywood's Stormwater Program. Each reference can attest to SFEC's performance in stormwater program management, design, and construction oversight.

*Form 4 – Vendor Reference forms for each reference are included in the attachments following this section.*

(*Note: Per RFQ instructions, no City of Hollywood staff are listed as references to demonstrate our capabilities. Full details for each reference above have been provided in Form 4.*)

# FORM 4

## VENDOR REFERENCE FORM

**City of Hollywood Solicitation #:** RFQ-320-25-JJ

**Reference for:** STORMWATER PROGRAM MANAGEMENT

**Organization/Firm Name providing reference:** City of Aventura

**Organization/Firm Contact Name:** Jake Ozyman, PE, PMP **Title:** Public Works & Transportation Director

**Email:** jozyman@cityofaventura.com **Phone:** 305.466.8970

**Name of Referenced Project:** Vulnerability Assessment **Contract No:**

**Date Services were provided:** Ongoing **Project Amount:** $349,000

**Referenced Vendor's role in Project:** ☐ **Prime Vendor** ☐ **Subcontractor/ Subconsultant**

**Would you use the Vendor again?** ☐ **Yes** ☐ **No. Please specify in additional comments**

| **Description of services provided by Vendor (provide additional sheet if necessary):** |
|---|
| Supported the City of Aventura in the implementation and programmatic management of its Stormwater Master Plan as part of a |
| comprehensive effort aligned with Section 380.093, F.S. Led coordination activities, stakeholder engagement, regulatory |
| compliance, and integration of vulnerability assessment results into stormwater infrastructure planning. |

| **Please rate your experience with the Vendor** | **Need Improvement** | **Satisfactory** | **Excellent** | **Not Applicable** |
|---|---|---|---|---|
| **Vendor's Quality of Service** | | | | |
| **a. Responsive** | ☐ | ☐ | ☐ | ☐ |
| **b. Accuracy** | ☐ | ☐ | ☐ | ☐ |
| **c. Deliverables** | ☐ | ☐ | ☐ | ☐ |
| **Vendor's Organization:** | | | | |
| **a. Staff expertise** | ☐ | ☐ | ☐ | ☐ |
| **b. Professionalism** | ☐ | ☐ | ☐ | ☐ |
| **c. Staff turnover** | ☐ | ☐ | ☐ | ☐ |
| **Timeliness/Cost Control of:** | | | | |
| **a. Project** | ☐ | ☐ | ☐ | ☐ |
| **b. Deliverables** | ☐ | ☐ | ☐ | ☐ |

| **Additional Comments (provide additional sheet if necessary):** |
|---|
| |
| |

| ****THIS SECTION FOR CITY USE ONLY**** | | | | | | |
|---|---|---|---|---|---|---|
| **Verified via:** | **Email:** | ☐ | **Verbal:** | ☐ | **Mail:** | ☐ |
| **Verified by:** | **Name:** | | | | **Title:** | |
| | **Department:** | | | | **Date:** | |

# FORM 4

## VENDOR REFERENCE FORM

**City of Hollywood**
**Solicitation #:** RFQ-320-25-JJ
**Reference for:** STORMWATER PROGRAM MANAGEMENT

**Organization/Firm Name providing reference:** South Florida Water Management District
**Organization/Firm Contact Name:** Carol Ballard
**Title:** Project Manager
**Email:** cballard@sfwmd.gov
**Phone:** 561.602.6378
**Name of Referenced Project:** FPLOS assessment for current and future conditions in C-111 coastal, C-111 south, C-111 AG, Model Land, and L-31NS Watersheds, Florida
**Contract No:** 4600004015-WO06
**Date Services were provided:** 2021-2023
**Project Amount:** $596,270.91

**Referenced Vendor's role in Project:** ☒ **Prime Vendor** ☐ **Subcontractor/ Subconsultant**

**Would you use the Vendor again?** ☐ **Yes** ☐ **No. Please specify in additional comments**

| **Description of services provided by Vendor (provide additional sheet if necessary):** |
|---|
| Surface and Groundwater Modeling |
| Assessments of Natural Systems |
| Environmental Data Collections and Assessments |

| **Please rate your experience with the Vendor** | **Need Improvement** | **Satisfactory** | **Excellent** | **Not Applicable** |
|---|---|---|---|---|
| **Vendor's Quality of Service** | | | | |
| **a. Responsive** | ☐ | ☐ | ☐ | ☐ |
| **b. Accuracy** | ☐ | ☐ | ☐ | ☐ |
| **c. Deliverables** | ☐ | ☐ | ☐ | ☐ |
| **Vendor's Organization:** | | | | |
| **a. Staff expertise** | ☐ | ☐ | ☐ | ☐ |
| **b. Professionalism** | ☐ | ☐ | ☐ | ☐ |
| **c. Staff turnover** | ☐ | ☐ | ☐ | ☐ |
| **Timeliness/Cost Control of:** | | | | |
| **a. Project** | ☐ | ☐ | ☐ | ☐ |
| **b. Deliverables** | ☐ | ☐ | ☐ | ☐ |

| **Additional Comments (provide additional sheet if necessary):** |
|---|
| |
| |

| ****THIS SECTION FOR CITY USE ONLY**** | | | | | | |
|---|---|---|---|---|---|---|
| **Verified via:** | **Email:** | ☐ | **Verbal:** | ☐ | **Mail:** | ☐ |
| **Verified by:** | **Name:** | | | | **Title:** | |
| | **Department:** | | | | **Date:** | |

# FORM 4

## VENDOR REFERENCE FORM

**City of Hollywood**
**Solicitation #:** RFQ-320-25-JJ
**Reference for:** STORMWATER PROGRAM MANAGEMENT

**Organization/Firm Name providing reference:** CITY OF OPA-LOCKA
**Organization/Firm Contact Name:** AIRIA AUSTIN
**Title:** Public Works Director
**Email:** Aaustin@opalockafl.gov
**Phone:** 305-953-2868 Ext 1450
**Name of Referenced Project:** SANITARY SEWER MODELING
**Contract No:** 202103003
**Date Services were provided:** 2021
**Project Amount:** $129,500.00

**Referenced Vendor's role in Project:** ☑ **Prime Vendor** ☐ **Subcontractor/ Subconsultant**

**Would you use the Vendor again?** ☑ **Yes** ☐ **No. Please specify in additional comments**

| **Description of services provided by Vendor (provide additional sheet if necessary):** |
|---|
| Developed City of Opa-locka Sanitary Sewer System Network Model using XP-SWMM by collecting data, reviewing |
| as-built from the City, Utility billings, Land Use, Pump Station Data. |
| |

| **Please rate your experience with the Vendor** | **Need Improvement** | **Satisfactory** | **Excellent** | **Not Applicable** |
|---|---|---|---|---|
| **Vendor's Quality of Service** | | | | |
| **a. Responsive** | ☐ | ☐ | ☑ | ☐ |
| **b. Accuracy** | ☐ | ☐ | ☑ | ☐ |
| **c. Deliverables** | ☐ | ☐ | ☑ | ☐ |
| **Vendor's Organization:** | | | | |
| **a. Staff expertise** | ☐ | ☐ | ☑ | ☐ |
| **b. Professionalism** | ☐ | ☐ | ☑ | ☐ |
| **c. Staff turnover** | ☐ | ☐ | ☑ | ☐ |
| **Timeliness/Cost Control of:** | | | | |
| **a. Project** | ☐ | ☐ | ☑ | ☐ |
| **b. Deliverables** | ☐ | ☐ | ☑ | ☐ |

| **Additional Comments (provide additional sheet if necessary):** |
|---|
| |
| |

| ****THIS SECTION FOR CITY USE ONLY**** | | | | | | |
|---|---|---|---|---|---|---|
| **Verified via:** | **Email:** | ☐ | **Verbal:** | ☐ | **Mail:** | ☐ |
| **Verified by:** | **Name:** | | | | **Title:** | |
| | **Department:** | | | | **Date:** | |

# Tab F: Required Forms

***Conradina grandiflora*** **(State threatened, endemic)**

**South Florida Engineering and Consulting LLC**

***Environmental Solutions through Science and Technology***

# F. Required Forms

The following required forms and certifications are completed and included as part of our submittal (under this tab or as separate attachments, as per the RFQ instructions):

## SUBMITTAL CHECKLIST FORMS

| ITEM | DESCRIPTION | INCLUDED |
|---|---|---|
| 1 | Table of Contents | ☒ |
| 2 | Executive Summary | ☒ |
| 3 | Firm Qualifications and Experience | ☒ |
| 4 | Organizational Profile and Project Team Qualifications | ☒ |
| 5 | Approach to Scope of Work | ☒ |
| 6 | Knowledge of Site and Local Conditions | ☒ |
| 7 | References – Vendor Reference Form | ☒ |
| 8 | Subconsultant Information | ☒ |
| 9 | Financial Resources | ☒ |
| 10 | Legal Proceedings and Performance | ☒ |
| 11 | Required Forms | ☒ |

## FORM 2 – ACKNOWLEDGEMENT AND SIGNATURE PAGE

*Signed and notarized page acknowledging all addenda and agreeing to the RFQ terms attached to the following page.*

# FORM 2

## ACKNOWLEDGMENT AND SIGNATURE PAGE

This form must be completed and submitted by the date and the time of bid opening.

Legal Company Name (include d/b/a if applicable): South Florida Engineering and Consulting LLC

If Corporation - Date Incorporated/Organized: 10/18/2011 Federal Tax Identification Number: 453615800

State Incorporated/Organized: Florida

Company Operating Address: 30 South M Street

City: Lake Worth Beach State: Florida Zip Code: 33460

Remittance Address (if different from ordering address): Same

City: State: Zip Code:

Company Contact Person: Thomas V. Conboy Email Address: tconboy@sfec.us

Phone Number (include area code): 561-412-6997 Fax Number (include area code): N/A

Company's Internet Web Address: www.SFEC.us

IT IS HEREBY CERTIFIED AND AFFIRMED THAT THE BIDDER/PROPOSER CERTIFIES ACCEPTANCE OF THE TERMS, CONDITIONS, SPECIFICATIONS, ATTACHMENTS AND ANY ADDENDA. THE BIDDER/PROPOSER SHALL ACCEPT ANY AWARDS MADE AS A RESULT OF THIS SOLICITATION. BIDDER/PROPOSER FURTHER AGREES THAT PRICES QUOTED WILL REMAIN FIXED FOR THE PERIOD OF TIME STATED IN THE SOLICITATION.

Bidder/Proposer's Authorized Representative's Signature: Thomas V Conboy Date: July 8, 2025

Type or Print Name: Thomas V. Conboy

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF BIDDER/PROPOSER TO BE BOUND BY THE TERMS OF ITS PROPOSAL. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED BY AN AUTHORIZED REPRESENTATIVE SHALL RENDER THE BID/PROPOSAL NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY BID/PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE BIDDER/PROPOSER TO THE TERMS OF ITS OFFER.

## HOLD HARMLESS AND INDEMNITY AGREEMENT

*Signed form in which SFEC agrees to indemnify and hold harmless the city as required attached to the following page.*

# FORM 5

## HOLD HARMLESS AND INDEMNITY CLAUSE

South Florida Engineering and Consulting LLC

**(Company Name and Authorized Signature, Print Name)**

, the contractor, shall indemnify, defend and hold harmless the City of Hollywood, its elected and appointed officials, employees and agents for any and all suits, actions, legal or administrative proceedings, claims, damage, liabilities, interest, attorney's fees, costs of any kind whether arising prior to the start of activities or following the completion or acceptance and in any manner directly or indirectly caused, occasioned or contributed to in whole or in part by reason of any act, error or omission, fault or negligence whether active or passive by the contractor, or anyone acting under its direction, control, or on its behalf in connection with or incident to its performance of the contract.

Thomas V. Conboy

Signature

Thomas V. Conboy, P.E.

Printed Name

South Florida Engineering and Consulting LLC

Name of Company

President and Principal Engineer

Title

## FORM 6 – NON-COLLUSION AFFIDAVIT

*Signed and notarized affidavit affirming that our proposal is genuine and not a product of collusion attached to the following page.*

# FORM 6

NON-COLLUSION AFFIDAVIT

**STATE OF:** Florida

**COUNTY OF:** Palm Beach, being first duly sworn, deposes and says that:

(1) He/she is President of South Florida Engineering and Consulting LLC, the Proposer that has submitted the attached Proposal.

(2) He/she has been fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal;

(3) Such Proposal is genuine and is not a collusion or sham Proposal;

(4) Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Proposer, firm or person to submit a collusive or sham Proposal in connection with the contractor for which the attached Proposal has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices, profit or cost element of the Proposal price or the Proposal price of any other Proposer, or to secure an advantage against the City of Hollywood or any person interested in the proposed Contract; and

(5) The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Thomas V. Conboy

Signature

Thomas V. Conboy, P.E.

Printed Name

South Florida Engineering and Consulting LLC

Name of Company

President and Principal Engineer

Title

## FORM 7 – SWORN STATEMENT ON PUBLIC ENTITY CRIMES

*Completed and signed statement per §287.133(3)(a), Florida Statutes, regarding public entity crimes attached to the following page.*

# FORM 7

## SWORN STATEMENT PURSUANT TO SECTION 287.133 (3) (a) FLORIDA STATUTES ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS

1. This form statement is submitted to the City of Hollywood by Thomas V. Conboy, President for South Florida Engineering and Consulting LLC (Print individual's name and title) (Print name of entity submitting sworn statement) whose business address is 30 South M Street, Lake Worth, Florida 33460 and if applicable its Federal Employer Identification Number (FEIN) is 453615800. If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.

2. I understand that "public entity crime," as defined in paragraph 287.133(1)(g), Florida Statues, 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 misinterpretation.

3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in an 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.

4. I understand that "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 ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5 I understand that "person," as defined in Paragraph 287.133(1)(e), Florida Statues, 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. The term "person" includes those officers, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. 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.)

__X__ Neither the entity submitting sworn statement, nor any of its officers, director, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime, but the Final Order entered by the Hearing Officer in a subsequent proceeding before a Hearing Officer of the State of the State of Florida,

Division of Administrative Hearings, determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the Final Order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THAT PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017 FLORIDA STATUTES FOR A CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

Thomas V Conroy
_____
(Signature)

Sworn to and subscribed before me this 8 day of July, 2025.

Personally known _____

Or produced identification _____ Notary Public-State of Florida

_____ my commission expires 5/7/2028
(Type of identification)

Notary Public State of Florida
Jennifer L. Hesser
My Commission HH 524763
Expires 5/7/2028

Jennifer L. Hesser
(Printed, typed or stamped commissioned name of notary public)

## FORM 8 – CERTIFICATIONS REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

*Signed federal certification confirming SFEC is not debarred or suspended from federally-funded contracts attached to the following page*.

# FORM 8

## CERTIFICATIONS REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS

The applicant certifies that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, sentenced to a denial of Federal benefits by a State or Federal court, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction, violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default.

Applicant Name and Address:

Thomas V. Conboy, P.E.

30 South M Street

Lake Worth, Florida 33460

Application Number and/or Project Name:

RFQ-320-25-JJ - STORMWATER PROGRAM MANAGEMENT

Applicant IRS/Vendor Number: 45-3615800

Thomas V Conboy

Signature

Thomas V. Conboy, P.E.

Printed Name

South Florida Engineering and Consulting LLC

Name of Company

President and Principal Engineer

Title

## FORM 9 – DRUG-FREE WORKPLACE PROGRAM

*Signed certification that SFEC maintains a drug-free workplace policy (for tie-breaker preference) attached to the following page.*

# FORM 9

## DRUG-FREE WORKPLACE PROGRAM

IDENTICAL TIE PROPOSALS - Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which 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 drug-free workplace program shall be given preference in the award process. Established procedures for processing tie proposals 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 employee 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 such 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 these requirements.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

Thomas V Conboy

Signature

Thomas V. Conboy, P.E.

Printed Name

South Florida Engineering and Consulting LLC

Name of Company

President and Principal Engineer

Title

## FORM 10 – DISCLOSURE OF SOLICITATION, GIVING, AND ACCEPTANCE OF GIFTS

*Completed form certifying compliance with the City's ethics requirements concerning gifts attached to the following page.*

# FORM 10

## SOLICITATION, GIVING, AND ACCEPTANCE OF GIFTS POLICY

Florida Statute 112.313 prohibits the solicitation or acceptance of Gifts. "No Public officer, employee of an agency, local government attorney, or candidate for nomination or election shall solicit or accept anything of value to the recipient, including a gift, loan, reward, promise of future employment, favor, or service, based upon any understanding that the vote, official action, or judgment of the public officer, employee, local government attorney, or candidate would be influenced thereby." The term "public officer" includes "any person elected or appointed to hold office in any agency, including any person serving on an advisory body."

The City of Hollywood/Hollywood CRA policy prohibits all public officers, elected or appointed, all employees, and their families from accepting any gifts of any value, either directly or indirectly, from any contractor, vendor, consultant, or business with whom the City/CRA does business.

The State of Florida definition of "gifts" includes the following:

Real property or its use,
Tangible or intangible personal property, or its use,
A preferential rate or terms on a debt, loan, goods, or services,
Forgiveness of indebtedness,
Transportation, lodging, or parking,
Food or beverage,
Membership dues,
Entrance fees, admission fees, or tickets to events, performances, or facilities,
Plants, flowers or floral arrangements
Services provided by persons pursuant to a professional license or certificate.
Other personal services for which a fee is normally charged by the person providing the services.
Any other similar service or thing having an attributable value not already provided for in this section.

Any contractor, vendor, consultant, or business found to have given a gift to a public officer or employee, or his/her family, will be subject to dismissal or revocation of contract.

As the person authorized to sign the statement, I certify that this firm will comply fully with this policy.

Thomas V. Conboy

Signature

Thomas V. Conboy, P.E.

Printed Name

South Florida Engineering and Consulting LLC

Name of Company

President and Principal Engineer

Title

## FORM 11 – W-9 FORM

*SFEC's completed IRS W-9 form (Request for Taxpayer Identification Number and Certification) attached to the following page.*

Form **W-9**
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

# 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.)

South Florida Engineering and Consulting LLC

**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) . . . . S

**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)

**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 . . . . . ☐

**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.)*

**5** Address (number, street, and apt. or suite no.). See instructions.

30 South M Street

**6** City, state, and ZIP code

Lake Worth, Florida 33460

Requester's name and address (optional)

**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**

| 4 | 5 | – | 3 | 6 | 1 | 5 | 8 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|

## Part II Certification

Under penalties of perjury, I certify that:

1. 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
2. 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
3. I am a U.S. citizen or other U.S. person (defined below); and
4. 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** Thomas V. Conboy **Date** 4/10/2025

# 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

must obtain your correct taxpayer identification number (TIN), which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

• Form 1099-INT (interest earned or paid).

• Form 1099-DIV (dividends, including those from stocks or mutual funds).

• Form 1099-MISC (various types of income, prizes, awards, or gross proceeds).

• Form 1099-NEC (nonemployee compensation).

• Form 1099-B (stock or mutual fund sales and certain other transactions by brokers).

• Form 1099-S (proceeds from real estate transactions).

• Form 1099-K (merchant card and third-party network transactions).

• Form 1098 (home mortgage interest), 1098-E (student loan interest), and 1098-T (tuition).

• Form 1099-C (canceled debt).

• Form 1099-A (acquisition or abandonment of secured property).

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

**Caution:** If you don't return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.

**By signing the filled-out form**, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued);

2. Certify that you are not subject to backup withholding; or

3. Claim exemption from backup withholding if you are a U.S. exempt payee; and

4. Certify to your non-foreign status for purposes of withholding under chapter 3 or 4 of the Code (if applicable); and

5. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting is correct. See *What Is FATCA Reporting*, later, for further information.

**Note:** If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

• An individual who is a U.S. citizen or U.S. resident alien;

• A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;

• An estate (other than a foreign estate); or

• A domestic trust (as defined in Regulations section 301.7701-7).

**Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding.** Payments made to foreign persons, including certain distributions, allocations of income, or transfers of sales proceeds, may be subject to withholding under chapter 3 or chapter 4 of the Code (sections 1441–1474). Under those rules, if a Form W-9 or other certification of non-foreign status has not been received, a withholding agent, transferee, or partnership (payor) generally applies presumption rules that may require the payor to withhold applicable tax from the recipient, owner, transferor, or partner (payee). See Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities.

The following persons must provide Form W-9 to the payor for purposes of establishing its non-foreign status.

• In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the disregarded entity.

• In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the grantor trust.

• In the case of a U.S. trust (other than a grantor trust), the U.S. trust and not the beneficiaries of the trust.

See Pub. 515 for more information on providing a Form W-9 or a certification of non-foreign status to avoid withholding.

**Foreign person.** If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person (under Regulations section 1.1441-1(b)(2)(iv) or other applicable section for chapter 3 or 4 purposes), do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515). If you are a qualified foreign pension fund under Regulations section 1.897(l)-1(d), or a partnership that is wholly owned by qualified foreign pension funds, that is treated as a non-foreign person for purposes of section 1445 withholding, do not use Form W-9. Instead, use Form W-8EXP (or other certification of non-foreign status).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a saving clause. Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

***Example.*** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if their stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first Protocol) and is relying on this exception to claim an exemption from tax on their scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

## Backup Withholding

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include, but are not limited to, interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third-party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

**Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester;

2. You do not certify your TIN when required (see the instructions for Part II for details);

3. The IRS tells the requester that you furnished an incorrect TIN;

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only); or

5. You do not certify to the requester that you are not subject to backup withholding, as described in item 4 under "*By signing the filled-out form*" above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier.

## What Is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all U.S. account holders that are specified U.S. persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

## Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you are no longer tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

## Penalties

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

# Specific Instructions

### Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

• **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

**Note for ITIN applicant:** Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040 you filed with your application.

• **Sole proprietor.** Enter your individual name as shown on your Form 1040 on line 1. Enter your business, trade, or "doing business as" (DBA) name on line 2.

• **Partnership, C corporation, S corporation, or LLC, other than a disregarded entity.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

• **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. Enter any business, trade, or DBA name on line 2.

• **Disregarded entity.** In general, a business entity that has a single owner, including an LLC, and is not a corporation, is disregarded as an entity separate from its owner (a disregarded entity). See Regulations section 301.7701-2(c)(2). A disregarded entity should check the appropriate box for the tax classification of its owner. Enter the owner's name on line 1. The name of the owner entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2. If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

### Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, enter it on line 2.

### Line 3a

Check the appropriate box on line 3a for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3a.

| IF the entity/individual on line 1 is a(n) . . . | THEN check the box for . . . |
|---|---|
| • Corporation | Corporation. |
| • Individual or<br>• Sole proprietorship | Individual/sole proprietor. |
| • LLC classified as a partnership for U.S. federal tax purposes or<br>• LLC that has filed Form 8832 or 2553 electing to be taxed as a corporation | Limited liability company and enter the appropriate tax classification:<br>P = Partnership,<br>C = C corporation, or<br>S = S corporation. |
| • Partnership | Partnership. |
| • Trust/estate | Trust/estate. |

### Line 3b

Check this box if you are a partnership (including an LLC classified as a partnership for U.S. federal tax purposes), trust, or estate that has any foreign partners, owners, or beneficiaries, and you are providing this form to a partnership, trust, or estate, in which you have an ownership interest. You must check the box on line 3b if you receive a Form W-8 (or documentary evidence) from any partner, owner, or beneficiary establishing foreign status or if you receive a Form W-9 from any partner, owner, or beneficiary that has checked the box on line 3b.

**Note:** A partnership that provides a Form W-9 and checks box 3b may be required to complete Schedules K-2 and K-3 (Form 1065). For more information, see the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

If you are required to complete line 3b but fail to do so, you may not receive the information necessary to file a correct information return with the IRS or furnish a correct payee statement to your partners or beneficiaries. See, for example, sections 6698, 6722, and 6724 for penalties that may apply.

### Line 4 Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

**Exempt payee code.**

• Generally, individuals (including sole proprietors) are not exempt from backup withholding.

• Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.

• Corporations are not exempt from backup withholding for payments made in settlement of payment card or third-party network transactions.

• Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space on line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2).

2—The United States or any of its agencies or instrumentalities.

3—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities.

5—A corporation.

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or territory.

7—A futures commission merchant registered with the Commodity Futures Trading Commission.

8—A real estate investment trust.

9—An entity registered at all times during the tax year under the Investment Company Act of 1940.

10—A common trust fund operated by a bank under section 584(a).

11—A financial institution as defined under section 581.

12—A middleman known in the investment community as a nominee or custodian.

13—A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

| IF the payment is for . . . | THEN the payment is exempt for . . . |
|---|---|
| • Interest and dividend payments | All exempt payees except for 7. |
| • Broker transactions | Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012. |
| • Barter exchange transactions and patronage dividends | Exempt payees 1 through 4. |
| • Payments over $600 required to be reported and direct sales over $5,000[1] | Generally, exempt payees 1 through 5.[2] |
| • Payments made in settlement of payment card or third-party network transactions | Exempt payees 1 through 4. |

[1] See Form 1099-MISC, Miscellaneous Information, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

**Exemption from FATCA reporting code.** The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) entered on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37).

B—The United States or any of its agencies or instrumentalities.

C—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i).

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i).

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state.

G—A real estate investment trust.

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940.

I—A common trust fund as defined in section 584(a).

J—A bank as defined in section 581.

K—A broker.

L—A trust exempt from tax under section 664 or described in section 4947(a)(1).

M—A tax-exempt trust under a section 403(b) plan or section 457(g) plan.

**Note:** You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

### Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, enter "NEW" at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

### Line 6

Enter your city, state, and ZIP code.

## Part I. Taxpayer Identification Number (TIN)

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have, and are not eligible to get, an SSN, your TIN is your IRS ITIN. Enter it in the entry space for the Social security number. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note:** See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.SSA.gov*. You may also get this form by calling 800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/EIN*. Go to *www.irs.gov/Forms* to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to *www.irs.gov/OrderForms* to place an order and have Form W-7 and/or Form SS-4 mailed to you within 15 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and enter "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, you will generally have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note:** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon. See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier, for when you may instead be subject to withholding under chapter 3 or 4 of the Code.

**Caution:** A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

## Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

**Signature requirements.** Complete the certification as indicated in items 1 through 5 below.

**1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

**2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

**3. Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

**4. Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third-party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

**5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

## What Name and Number To Give the Requester

| For this type of account: | Give name and SSN of: |
|---|---|
| 1. Individual | The individual |
| 2. Two or more individuals (joint account) other than an account maintained by an FFI | The actual owner of the account or, if combined funds, the first individual on the account[1] |
| 3. Two or more U.S. persons (joint account maintained by an FFI) | Each holder of the account |
| 4. Custodial account of a minor (Uniform Gift to Minors Act) | The minor[2] |
| 5. a. The usual revocable savings trust (grantor is also trustee) | The grantor-trustee[1] |
| b. So-called trust account that is not a legal or valid trust under state law | The actual owner[1] |
| 6. Sole proprietorship or disregarded entity owned by an individual | The owner[3] |
| 7. Grantor trust filing under Optional Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))** | The grantor* |
| 8. Disregarded entity not owned by an individual | The owner |
| 9. A valid trust, estate, or pension trust | Legal entity[4] |
| 10. Corporation or LLC electing corporate status on Form 8832 or Form 2553 | The corporation |
| 11. Association, club, religious, charitable, educational, or other tax-exempt organization | The organization |
| 12. Partnership or multi-member LLC | The partnership |
| 13. A broker or registered nominee | The broker or nominee |
| 14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments | The public entity |
| 15. Grantor trust filing Form 1041 or under the Optional Filing Method 2, requiring Form 1099 (see Regulations section 1.671-4(b)(2)(i)(B))** | The trust |

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name on line 1, and enter your business or DBA name, if any, on line 2. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

* **Note:** The grantor must also provide a Form W-9 to the trustee of the trust.

** For more information on optional filing methods for grantor trusts, see the Instructions for Form 1041.

**Note:** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

## Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information, such as your name, SSN, or other identifying information, without your permission to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax return preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity, or a questionable credit report, contact the IRS Identity Theft Hotline at 800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 877-777-4778 or TTY/TDD 800-829-4059.

**Protect yourself from suspicious emails or phishing schemes.** Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 800-366-4484. You can forward suspicious emails to the Federal Trade Commission at *spam@uce.gov* or report them at *www.ftc.gov/complaint*. You can contact the FTC at *www.ftc.gov/idtheft* or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see *www.IdentityTheft.gov* and Pub. 5027.

Go to *www.irs.gov/IdentityTheft* to learn more about identity theft and how to reduce your risk.

## Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and territories for use in administering their laws. The information may also be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payors must generally withhold a percentage of taxable interest, dividends, and certain other payments to a payee who does not give a TIN to the payor. Certain penalties may also apply for providing false or fraudulent information.

## CLOSING

Thank you for reviewing SFEC's proposal.

We are confident that our team's experience, local knowledge, and commitment to excellence will meet and exceed the City of Hollywood's expectations for Stormwater Program Management. We look forward to the opportunity to discuss our qualifications in detail and, ultimately, to partner with the City to achieve a more resilient and flood-safe Hollywood.