Parks Bond & Master Plan Design and Program Management

RFQ Event No. 457

Prepared for: City of Fort Lauderdale
Date: June 23, 2025

PARKS & RECREATION
City of Fort Lauderdale

Address: 880 SW 145th Avenue
Suite 106
Pembroke Pines, FL 33027

Phone: 954.613.4353
Email: cesinfo@cesconsult.com
Website: cesconsult.com

June 23, 2025

Ms. Michelle Lemire, Procurement Administrator
and Selection Committee Members
City of Fort Lauderdale
Procurement Services Division
101 NE 3rd Avenue, Suite 1650 | Fort Lauderdale, FL 33301

RE: City of Fort Lauderdale RFQ Event No. 457 – Parks Bond & Master Plan Design and Program Management

Dear Ms. Lemire and Selection Committee Members:

The City of Fort Lauderdale (City) seeks qualified consulting firms to provide professional services for the comprehensive management and delivery of its Parks and Recreation System Master Plan and Parks Bond Program. The Parks and Recreation System Master Plan outlines a comprehensive strategy for the development and enhancement of the City's parks and recreation facilities, and the Parks Bond Program aims to address prioritized park improvements across the City. In keeping in line with the City's Vision Plan, *Fast Forward Fort Lauderdale 2035*, and Strategic Plan, *Press Play Fort Lauderdale 2029*, the City needs a forward-looking team to help it continue its positive momentum and deliver the required services efficiently and effectively. **With our demonstrated program management experience, local and national parks expertise, and capacity to deliver, the CES Team is ready—with an innovative mindset—to support the City in achieving its goals and vision and successfully deliver its Parks and Recreation System Master Plan and Parks Bond Program.**

The CES Team offers the City the following benefits:

Demonstrated Program Management Experience: The CES Team has successfully delivered program and project management services for major public infrastructure initiatives throughout South Florida. Notably, our key personnel played a pivotal role in the successful delivery of the City of Doral's General Obligation Parks Bond Program, one of the largest parks programs in South Florida. I served as Program Executive and our proposed Program Manager, **James (Jim) P. Wille, CGC**, served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities for Doral's General Obligation Parks Bond Program, a $200M program with a complex scope. Our proposed Deputy Program Manager, **Eugene Collings-Bonfill, PE, PSM, PMP**, was assigned under the Doral City Manager as Project Representative to oversee the program for Doral. **Jim, Eugene, and I will use lessons learned and best practices from Doral's Bond Program to successfully deliver the City's Parks and Recreation System Master Plan and Parks Bond Program on time and within budget. Additionally, CES team member, Jacobs—ranked as the No. 1 program management firm globally for the fourth consecutive year in 2024 by *Engineering News-Record*—brings unmatched program management experience and depth of resources to our team.**

Local and National Parks Expertise: The CES Team has extensive parks experience, including such **local parks** as Las Olas Beach Park, Fort Lauderdale; Bluesten Park, Hallandale Beach; Central Broward Regional Park, Lauderhill; Cypress Preserve Park, Sunrise; Indian Trace Park, Weston; Jaco Pastorius Park, Oakland Park; Maria Berman Giulanti Park, Hollywood; and Monarch Lakes Park, Miramar, among others. Additionally, **Jacobs has provided planning, design, construction management and environmental services to the National Park Service (NPS) for more than 52 years.** Over the past five decades, they have provided services at **more than 30 national parks,** including Yellowstone, Grand Canyon, Yosemite and Shenandoah National Parks, Bandelier National Monument and Glen Canyon National Recreation Area. **As a trusted designer, they work with the NPS to strengthen and protect America's awe-inspiring and historically significant cultural and ecological resources.**

Capacity to Deliver: CES, with a dedicated program management service line, will lead this contract. CES's Broward County office ensures **immediate responsiveness and support.** Additionally, with a **reach back that includes thousands,** the CES Team has the depth and flexibility to scale resources as needed, optimizing efficiency and ensuring timely completion. Our **local team** is prepared to **immediately mobilize** and work collaboratively with the City. **As a Broward County resident, along with Jim and others on our team who also live in Broward County, I take pride in our team's ability to deliver quality support to the City.**

Thank you for your time and consideration. We appreciate the opportunity to support the City and welcome the chance to further discuss our capabilities and approach at your convenience. Should you have any questions, please contact me at 954.613.4353 or cesinfo@cesconsult.com.

Sincerely,
CES Consultants, Inc.

Juan Alfonso, AIA, NCARB, RID, CCM | President & COO

Evidence of Authority

2025 FLORIDA PROFIT CORPORATION AMENDED ANNUAL REPORT

FILED
Feb 20, 2025
Secretary of State
8647615034CC

DOCUMENT# P97000085972

Entity Name: CES CONSULTANTS, INC.

Current Principal Place of Business:

3150 SW 38TH AVENUE
SUITE 450
MIAMI, FL 33146

Current Mailing Address:

3150 SW 38TH AVENUE
SUITE 450
MIAMI, FL 33146 US

FEI Number: 65-0792884

Certificate of Status Desired: No

Name and Address of Current Registered Agent:

ORTIZ, RUDY
3150 SW 38TH AVENUE
SUITE 450
MIAMI, FL 33146 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE: RUDY ORTIZ 02/20/2025

Electronic Signature of Registered Agent — Date

Officer/Director Detail :

Title	CEO, CHAIRMAN, SECRETARY
Name	ORTIZ, RUDY
Address	880 SW 145TH AVENUE SUITE 106
City-State-Zip:	PEMBROKE PINES FL 33027

Title	SENIOR VICE PRESIDENT
Name	HOOT, DAVID
Address	2056 VISTA PARKWAY SUITE 200
City-State-Zip:	WEST PALM BEACH FL 33411

Title	CEO
Name	ORTIZ, RUDY M
Address	208 NORTH LAURA STREET SUITE 800
City-State-Zip:	JACKSONVILLE FL 32202

Title	SENIOR VICE PRESIDENT
Name	MOSELEY, CHARLES
Address	3150 SW 38TH AVENUE SUITE 450
City-State-Zip:	MIAMI FL 33146

Title	SENIOR VICE PRESIDENT
Name	SAID, MORSY
Address	45-10 COURT SQUARE 1ST FLOOR
City-State-Zip:	LONG ISLAND CITY NY 11101

Title	CEO
Name	ORTIZ, RUDY
Address	2002 N LOIS AVE SUITE 160
City-State-Zip:	TAMPA FL 33607

Title	SENIOR VICE PRESIDENT
Name	CARABALLO, JOSE
Address	3150 SW 38TH AVENUE SUITE 450
City-State-Zip:	MIAMI FL 33146

Title	PRESIDENT, COO
Name	ALFONSO, JUAN
Address	3150 SW 38TH AVENUE SUITE 450
City-State-Zip:	MIAMI FL 33146

Continues on page 2

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: RUDY ORTIZ CEO 02/20/2025

Electronic Signature of Signing Officer/Director Detail — Date

Officer/Director Detail Continued :

Title	VP
Name	ALHALAWANI, AHMAD
Address	65 CHALLENGER ROAD SUITE 215
City-State-Zip:	RIDGEFIELD PARK NJ 07660

Title	EXECUTIVE VICE PRESIDENT
Name	JELEN, MICHAEL
Address	1940 DUKE STREET SUITE 6400
City-State-Zip:	ALEXANDRIA VA 22314

Title	SENIOR VICE PRESIDENT
Name	FERNANDEZ, DARLENE
Address	3150 SW 38TH AVENUE SUITE 450
City-State-Zip:	MIAMI FL 33146

Addendum No. 1 Acknowledgement

City of Fort Lauderdale • Procurement Services Division
100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

ADDENDUM NO. 1

Request for Qualifications No. 457

TITLE: Parks Bond and Master Plan Program Management

ISSUED: May 9, 2025

This addendum is being issued to make the following change(s):

1. The opening date has been changed to June 9, 2025 at 2:00 p.m. EST
2. The question and answer deadline has been extended until May 28, 2025 at 5:00 p.m. EST.

All other terms, conditions, and specifications remain unchanged.

Michelle Lemire
Procurement Administrator

Company Name: CES Consultants, Inc.
(please print)

Bidder's Signature: _____
Juan Alfonso, AIA, NCARB, RID, CCM | President & COO

Date: June 23, 2025

Addendum No. 2 Acknowledgement

City of Fort Lauderdale • Procurement Services Division
100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
purchase@fortlauderdale.gov

ADDENDUM NO. 2

Request for Qualifications No. 457

Parks Bond and Master Plan Program Management

ISSUED: June 9, 2025

This addendum is being issued to make the following change(s):

1. The opening date has been changed to June 23, 2025 at 2:00 p.m. EST

All other terms, conditions, and specifications remain unchanged.

Michelle Lemire
Procurement Administrator

Company Name: CES Consultants, Inc.
(please print)

Bidder's Signature: _____
Juan Alfonso, AIA, NCARB, RID, CCM | President & COO

Date: June 23, 2025

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.1 Table of Contents

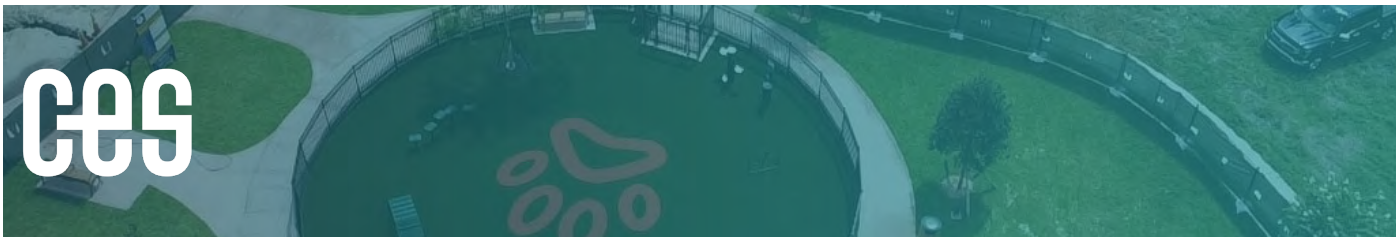
4.2.1 Table of Contents

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.2 Executive Summary

4.2.2 Executive Summary



Overview

CES Consultants, Inc. (CES) is a local, homegrown, minority-owned, multidisciplinary professional services firm **founded in 2001**, with offices throughout Florida and in New York, New Jersey, and DC. We provide program management, owner's representation, construction management, professional engineering, construction inspection, design-build, progressive design-build, and program analytics and technology services primarily to public-sector clients and agencies.

Since the firm's inception, CES personnel have been involved in some of the largest infrastructure improvement projects and programs in Florida and New York. The company's **professional staff of 140+ professionals** has extensive experience in the areas of program management, owner's representation, project controls, cost control, estimating, scheduling, permitting services, QA/QC, program analytics and technology, change management, document controls systems, claim analysis, dispute resolution, construction management, construction inspection services, civil and land development engineering, water and wastewater utility, roadway, grading, drainage, and stormwater engineering design, hydraulic modeling, structural engineering, and mechanical and electrical engineering.

CES's program management services span the project design and implementation process, ranging from feasibility studies and preliminary engineering reports to full design and construction management. **Due to our relevant experience, the CES Team has no learning curve and can deliver the City's program management services efficiently, providing the City with cost-effective solutions. Other municipalities, including the Cities of Miami and Doral, have benefited from the CES Team's program management support.**

CES has three South Florida offices, including one in **Broward County,** allowing us to quickly mobilize to a job site:

880 SW 145th Avenue, Suite 106
Pembroke Pines, FL 33027
954.613.4353

Our Broward County office will service this contract.

Over the last 24 years, CES has earned a distinguished track record as program/project managers, construction project managers, and owner's representatives throughout the East Coast and most notably in the Tri-County area. CES staff have played principal-level roles on South Florida's largest, multi-phased infrastructure capital improvement projects and programs. We have worked side-by-side with public and municipal clients and owners to deliver their projects on time and within budget while upholding the highest standards of quality and safety. We are dedicated to working with the City to find the most innovative and value-added solutions to optimize the use of your existing assets and to maximize the reach of existing budgets and potential funding sources.

CES leadership has delivered a combined $50 Billion in program management assignments over the last 20+ years.

CES and its professionals have delivered major projects and programs, and our experience and lessons learned on these programs will be brought to the City. Our program/project management experience includes clients large and small seeking to replace, repair, renew and expand aging infrastructure while enhancing quality of life and planning for future growth.

The CES Team brings lessons learned and best practices from local programs; knowledge and understanding of parks; a community presence, vested in the region to maximize local economic benefits; and a proven spirit of collaboration with agencies having jurisdiction over the work.

We have learned valuable lessons and developed best practices that are key to delivering these projects and programs successfully. We have learned:

- The importance of early coordination to develop innovative designs with a focus on effective and efficient constructability.
- Risk assessment, change management, and claims avoidance strategies given local construction industry trends, standards, practices, capacity, and capabilities.
- Communication with vested stakeholders/agencies to develop phasing strategies for the work focused on minimizing impact to ongoing operations.
- The definition of target standards of quality and safety for the program.
- A proactive approach to permitting and regulatory agency requirements and procedures.

The CES Team has a proven, successful history of delivering major infrastructure programs throughout South Florida, effectively applying professional and technical expertise to plan, manage, and control resources, schedule, and risk to assure the successful delivery of quality, functional projects on time and within budget. Our applied experience is guaranteed to meet and exceed the City's expectations while ensuring that your projects are designed and constructed with conformity to plans, specifications and special provisions in each contract. Our main objective is to work with City staff to ensure quality support and delivery throughout the wide gamut of activities that your potential projects will need, all while focusing on providing quality delivery in a timely and cost-effective manner.

We have a strong local presence

Our team offers a unique advantage rooted in professional excellence and personal investment. CES has a strong local presence, including team members who are not only based in our Broward County office, but who are also Broward County residents. As such, we are deeply familiar with the local landscape and personally committed to the success of the City's Parks and Recreation System Master Plan and Parks Bond Program. Our proximity allows for rapid mobilization and responsive service. At the same time, our status as residents ensures that we are genuinely invested in delivering a high-quality outcome because our families, neighbors, and communities will directly benefit from it. With experience managing complex infrastructure projects across South Florida and beyond, our multidisciplinary team brings unmatched expertise, a proven track record, and a collaborative spirit. We understand the importance of early coordination, risk mitigation, and stakeholder engagement, and we are dedicated to maximizing the City's Parks and Recreation System Master Plan's and Parks Bond Program's value through innovative, cost-effective solutions that reflect our professional standards and our commitment to the region's future.

Officers, Principals, Supervisory Staff and Key Individuals

CES officers, principals, supervisory staff and key individuals who will be directly involved with the work include the following:

Team Member	Project Role	Office Location
Juan Alfonso, AIA, NCARB, RID, CCM	Principal-in-Charge	Pembroke Pines, FL
James (Jim) P. Wille, CGC	Program Manager	Pembroke Pines, FL
David Hoot, PE	QA/QC Lead	West Palm Beach, FL
Javier Cabrera Marini	Performance Analytics Lead	Pembroke Pines, FL
Charles J. Moseley	Planning	Pembroke Pines, FL
Ernesto (Ernie) Z. Cano	Construction & CEI Management	Miami, FL
Rafael Urdaneta	Construction Management	Pembroke Pines, FL

Additional key personnel include the following:

Team Member	Project Role	Office Location
Eugene Collings-Bonfill, PE, PSM, PMP	Deputy Program Manager	Fort Lauderdale, FL
Yvonne Garth	Public Engagement Lead	Davie, FL
Beverly Santicola	Grants Management Lead	Sewickley, PA
Hollie Janson Schmidt	Planning Lead	Fort Lauderdale, FL
Scott Peavler, PLA	Design Management – Landscape/Hardscape Design; Landscape Architecture	Fort Lauderdale, FL
Stuart D. Patterson, AIA	Design Management – Facilities Design; Facilities Architecture	Fort Lauderdale, FL
Brett Nein, PLA, ASLA, ENV SP	Landscape Architecture	Fort Lauderdale, FL
Susanne M. Torriente	Climate Adaptation/Resiliency	Fort Lauderdale, FL

Evaluation Criteria

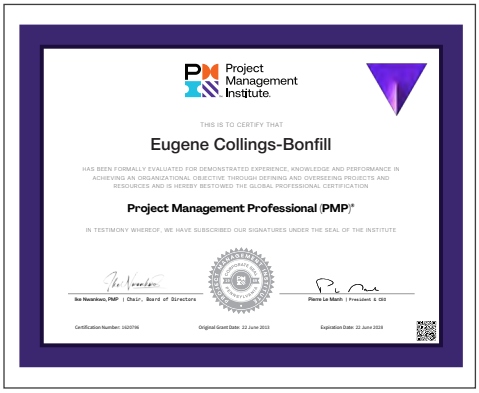
For ease of reference, we have summarized the key elements of our proposal on the following pages by focusing on how our submittal meets and exceeds the Evaluation Criteria detailed in the solicitation.

Evaluation Criteria: Qualifications and Experience of Firm/Team

Provide a clear overview of the professional certifications and relevant credentials held by key personnel. Include a comprehensive summary of each team member's experience in managing or supporting projects of comparable scope, scale, and complexity. Cite specific examples of successfully completed projects, emphasizing delivery within established timelines, budgets, and quality standards. Where possible, highlight measurable outcomes and notable recognitions. Clearly define the roles and responsibilities each individual will hold in the proposed project, demonstrating how their expertise aligns with and supports the requirements outlined in the Scope of Work.

30%

Our key personnel's professional certifications and relevant credentials, as well as a comprehensive summary of each team member's experience in managing or supporting projects of comparable scope, scale, and complexity, are included in **Section 4.2.4: Qualifications of the Project Team** and **Section 4.2.6: Examples of Completed Projects**. Copies of our key personnel's relevant licenses and certifications, as well as firm licenses, are included in **Section 4.2.3: Firm Qualifications and Experience**. Of note is the **Project Management Professional (PMP) certification** held by our proposed Deputy Program Manager, **Eugene Collings-Bonfill, PE, PSM, PMP**. The PMP certification validates Eugene's knowledge of project management methodologies, tools, and best practices and confirms he can manage projects from initiation through closing.


Project Management Institute.

THIS IS TO CERTIFY THAT

Eugene Collings-Bonfill

HAS BEEN FORMALLY EVALUATED FOR DEMONSTRATED EXPERIENCE, KNOWLEDGE AND PERFORMANCE IN ACHIEVING AN ORGANIZATIONAL OBJECTIVE THROUGH DEFINING AND OVERSEEING PROJECTS AND RESOURCES AND IS HEREBY BESTOWED THE GLOBAL PROFESSIONAL CERTIFICATION

Project Management Professional (PMP)®

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE

Specific examples of successfully completed projects are included in **Section 4.2.6: Examples of Completed Projects**. As detailed within our submittal, **James (Jim) P. Wille, CGC**, our proposed Program Manager, served as Senior Construction Project Manager/ Program Director for the design and construction of five parks and other facilities for the City of Doral's General Obligation Parks Bond Program, a $200M program with a complex scope. He managed the program to a successful outcome, with projected savings of more than $9.8M as of March 2025 and completing projects on time and under budget.

Eugene was assigned under the Doral City Manager as Project Representative to oversee the City's General Obligation Parks Bond Program for Doral. Eugene was responsible for the day-to-day planning, coordination, and execution of multiple park improvement projects under the bond initiative. His proven ability to manage complex, multi-stakeholder projects within a public agency framework makes him qualified to support the City of Fort Lauderdale's Parks Bond Program.

Additionally, Jim served as Senior Construction Project Manager for the **Central Broward Regional Park & Stadium Design-Build project,** which consisted of the design and construction of a $70M, 110-acre, multi-use sports complex featuring a 20,000-capacity stadium centered around a 167-yard (153-meter) circular grass field; the first International Cricket Council (ICC)-certified cricket pitch in the U.S. **The project received the 2008 National Association of County Park & Recreation Officials (NACPRO), Class II Award for Park & Recreation Areas & Facilities.**

Our team members' project roles and responsibilities, demonstrating how their expertise aligns with and supports the requirements outlined in the Scope of Work, are included in **Section 4.2.4: Qualifications of the Project Team.**

Additionally, CES team member, Jacobs—ranked as the No. 1 program management firm globally for the fourth consecutive year in 2024 by *Engineering News-Record* (ENR)—brings unmatched program management experience and depth of resources to our team. Jacobs also ranked No. 1 on ENR's Top 500 Design Firms list for the seventh consecutive year in 2024. Jacobs has held a top five position in the Top 500 list since ENR's rankings began in 2003.

Evaluation Criteria: Approach to Scope of Work

Detail Firm's comprehensive understanding of the project's objectives, requirements, and potential challenges. Include a clear and detailed description of the methodology to be employed in the execution of the Scope of Work, including all anticipated phases of work (e.g., design, permitting, construction, etc.). The methodology should reflect a structured, logical approach aligned with the project's goals and timelines. Provide information on recent, current, and anticipated future workloads to demonstrate capacity to perform the required work. Include a summary of the firm's efforts to engage Minority and Women-Owned Business Enterprises (M/WBEs), including specific strategies for participation and compliance with applicable M/WBE goals.

35%

Our comprehensive understanding of the project's objectives, requirements, and potential challenges is detailed in **Section 4.2.5: Approach to Scope of Work.** Section 4.2.5: Approach to Scope of Work also includes a clear and detailed description of the methodology to be employed in the execution of the Scope of Work, including all anticipated phases of work. Our methodology reflects a structured, logical approach aligned with the project's goals and timelines.

With a diverse and deep bench of professional staff on the CES Team, the City's potential projects will be addressed with assignment of the right professionals, each of whom is ready to start and experienced in the work areas required. **We have more than enough capacity and highly qualified, available personnel to provide the City's required services efficiently.**

CES holds weekly operational meetings to discuss staffing for our current and future workload based on the Project Management, Backlog, and Look Ahead reports generated by our Acumatica software, which keep us constantly updated on our current and future staffing needs. **Throughout the life of this contract, we will manage the required human resources to complete the work for the City.**

The CES Team will be fully available and committed to the City to ensure successful implementation and delivery of your potential projects. The CES Team will be highly responsive and accessible and will communicate proactively to keep projects moving, to avoid surprises, and to mitigate delivery risks. Our team is committed to exceeding the City's needs by providing quality, first priority service on this important contract. With a reach back that includes thousands, the CES Team has the depth and flexibility to scale resources as needed, optimizing efficiency and ensuring timely completion.

Our current workload and available staff resources allow us to handle multiple projects concurrently. Our professional staff has an established record of experience and performance with public-sector clients and agencies throughout South Florida that exemplifies the quality and ability that the City desires.

Additionally, CES is a Florida Unified Certification Program DBE and a Florida State Minority Supplier Development Council MBE. We have partnered with Garth Solutions, Inc. (GSI), a Florida M/WBE, to provide public engagement services.

FDOT · Broward County Florida · Greater Orlando Aviation Authority

Florida Unified Certification Program

Disadvantaged Business Enterprise (DBE) Certificate of Eligibility

CES CONSULTANTS INC

MEETS THE REQUIREMENTS OF 49 CFR, PART 26

APPROVED NAICS CODES:

541330, 541340

Victoria V. Smith

Victoria V. Smith

DBE & Small Business Development Manager

Florida Department of Transportation

Miami-Dade County · Tampa International Airport · Tallahassee · Votran

THIS CERTIFIES THAT

CES Consultants, Inc.

dba CES Consultants, Inc.

NMSDC National Minority Supplier Development Council

* Nationally certified by the: **FLORIDA STATE MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): 541330; 541990; 541519; 541350; 541340; 541618; 541620; 541690; 922190; 924110

* Description of their product/services as defined by the North American Industry Classification System (NAICS)

07/26/2024 — **Issued Date**

FL02429 — **Certificate Number**

07/26/2025 — **Expiration Date**

Ying McGuire
NMSDC CEO and President

Beatrice Louissaint, President & CEO

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: http://nmsdc.org

Certify, Develop, Connect, Advocate.

* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®

Evaluation Criteria: History and Past Performance of the Firm

Detail the firm's track record of success in achieving the intended outcomes of previous projects. Highlight the implementation of innovative solutions, effective problem-solving strategies, and contributions to long-term project sustainability. Demonstrate the firm's ability to consistently meet project deadlines and critical milestones without significant delays. Provide references from prior clients who can attest to the firm's overall performance, quality of project execution, adherence to schedules and budgets, and level of professionalism throughout the duration of the project.

25%

The CES Team's track record of success in achieving the intended outcomes of previous projects is included in **Section 4.2.6: Examples of Completed Projects** and **Section 4.2.7: References.** As previously mentioned, Jim, our proposed Program Manager, served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities for the City of Doral's General Obligation Parks Bond Program. He managed the program to a successful outcome, with projected savings of more than $9.8M as of March 2025 and completing projects on time and under budget. Effective problem-solving strategies employed on the City of Doral's General Obligation Parks Bond Program include the following:

- An Owner Direct Purchase (ODP) strategy to save the City time and money
- GMPs within CM@R contracts to allow the stakeholders to view the budget versus pricing and schedule impacts in real time; this helped with go/no go decisions for potential added scope
- A permit expediting strategy to expedite the release of work for construction
- Phasing as a way to expedite the turnover of parts of the various projects to the public
- Use of market conditions studies to predict the effects of COVID to the program and avoid those

Additionally, our team's implementation of innovative solutions and contributions to long-term project sustainability are highlighted in **Section 4.2.6: Examples of Completed Projects** and **Section 4.2.5: Approach to Scope of Work.**

References from clients who can attest to the CES Team's overall performance, quality of project execution, adherence to schedules and budgets, and level of professionalism throughout the duration of the project are included in **Section 4.2.7: References.** Our references can also confirm our team's ability to consistently meet project deadlines and critical milestones without significant delays.

> *"We are extremely pleased with the work performed by CES Consultants and believe they would be an asset to any agency or organization."*
>
> – Hector Badia,
> Office of Capital Improvements

Evaluation Criteria: Communications and Outreach Plan

Provide a comprehensive stakeholder engagement plan for the duration of the contract. The plan shall outline specific methods for soliciting feedback, addressing concerns, and facilitating meaningful community involvement in the decision-making process. Emphasis should be placed on inclusive and accessible outreach strategies designed to engage park and recreation facility users, neighboring residents, key stakeholders, and the broader community.

10%

Our Communications and Outreach Plan is included in **Section 4.2.5.2: Public Engagement Plan.** The plan outlines specific methods for soliciting feedback, addressing concerns, and facilitating meaningful community involvement in the decision-making process. Emphasis has been placed on inclusive and accessible outreach strategies designed to engage park and recreation facility users, neighboring residents, key stakeholders, and the broader community.

Garth Solutions, Inc. (GSI) (M/WBE) will lead our team's Public Engagement efforts. GSI has spent over two decades building a legacy of excellence in the public sector. They have 20 years of public outreach experience across South Florida.

GSI's in-house talent of web designers, graphic designers, copywriters, and public outreach coordinators enables them to positively impact projects for municipalities. **Notably, for the City of Fort Lauderdale, they provided comprehensive community outreach services for both the Las Olas Beach Park Project and Pompey Park.**

> *"I have worked with GSI for over 15 years on several projects, including the Las Olas Beach Park Project, Hollywood Police Department GO Bond, Hollywood Boulevard Landscaping, and so many more. As an expert in Public Outreach, GSI was extremely helpful in connecting with the community while taking on other projects' complex communication strategies.*
>
> *Yvonne Garth and her team are reliable, trustworthy, and extremely effective at creating both strategic and tactical plans that yield positive results for the clients they serve. Their knowledge of public perception, communications, and public sector demands gives them a unique edge in every project they undertake."*
>
> – Jose Cortes, Director of Design & Construction Management
>
> CITY OF Hollywood FLORIDA

GSI plays an integral role as the lead public outreach consultant on project engagements throughout Broward and Miami-Dade Counties. For many of these projects, they often execute communication and outreach with both internal and external stakeholders, including local communities, HOAs and citizen groups, local businesses, governmental agencies, and planning boards. **Over the years, this exposure and experience has enabled them to build strong relationships throughout South Florida, with an understanding of municipal and community dynamics across the region.**

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.3 Firm Qualifications and Experience

4.2.3 Firm Qualifications and Experience

Minimum Qualification Requirements

CES meets the Minimum Qualification Requirements, as noted in this section.

CES is a local, homegrown, minority-owned, multidisciplinary professional services firm founded in 2001, with offices throughout Florida and in New York, New Jersey, and DC. We provide program management, owner's representation, construction management, professional engineering, construction inspection, design-build, progressive design-build, and program analytics and technology services primarily to public-sector clients and agencies.

CES has the managerial and financial ability to successfully perform the work. We possess sufficient financial support, equipment and organization to ensure that we can satisfactorily perform the services if awarded a contract.

CES Consultants, Inc. is in good financial standing, remains well-capitalized, and has the necessary human and financial/capital resources to execute the services requested under this contract. CES Consultants, Inc. is not now, nor has it ever been, insolvent, in bankruptcy proceedings or receivership, or engaged in or threatened with any litigation or other legal or administrative proceedings or investigations of any kind that would have an adverse effect on its ability to perform its obligations under this contract.

As demonstrated in Section 4.2.6: Examples of Completed Projects, the CES Team has successfully provided services with similar magnitude to those specified in the scope of services to at least one city similar in size and complexity to the City of Fort Lauderdale.

Solicitation Requirements

2.8.1 Proposer or principals shall have relevant experience in Professional Landscape/Architectural/Civil Engineering Design and Construction, Estimating, CEI and Program Management. Project manager assigned to the work must have at least five (5) years' experience in Professional Landscape/Architectural/Civil Engineering Design and Construction and Program Management and must have served as project manager on similar projects as indicated in the scope of work.

Please see Section 4.2.4: Qualifications of the Project Team and Section 4.2.6: Examples of Completed Projects.

Firm Name
CES Consultants, Inc.

Company Address
880 SW 145th Avenue, Suite 106
Pembroke Pines, FL 33027

Phone Number
954.613.4353

Fax Number
N/A

E-Mail Address
cesinfo@cesconsult.com

Website
cesconsult.com

Contact Person
Juan Alfonso, AIA, NCARB, RID, CCM
President & COO

Number of Years of Experience in Providing the Professional Services as it Relates to the Work Contemplated
24

Business Structure
Florida S-type corporation; CES is registered as a legal entity in Florida.

Relative Size of the Firm
140+ professionals

2.8.2 Before awarding a contract, the City reserves the right to require that a firm submit such evidence of its qualifications as the City may deem necessary. Further, the City may consider any evidence of the financial, technical, and other qualifications and abilities of a firm or principals, including previous experiences of same with the City and performance evaluation for services, in making the award in the best interest of the City.

CES's qualifications are included within our submittal. Should the City require additional information, CES will comply with the City's request.

2.8.3 Neither Firm nor principals shall have any record of judgments, pending lawsuits against the City or criminal activities involving moral turpitude, or any conflicts of interest that have not been waived by the City Commission.

CES is compliant.

2.8.4 Neither Firm nor any principal, officer, or stockholder shall be in arrears or in default of any debt or contract involving the City, (as a party to a contract, or otherwise), or have failed to perform faithfully on any previous or current contract with the City.

CES is compliant.

2.8.5 Consultant(s) must be appropriately licensed and registered in the State of Florida in the required field of service required.

Licenses are included at the end of this section.

Past Projects for Agencies of Similar Size and Scope

The CES Team's past projects for agencies of similar size and scope are included in **Section 4.2.6: Examples of Completed Projects.**

Ability to Meet Time and Budget Requirements

The CES Team will be fully available and committed to the City to ensure successful implementation and delivery of any task order assigned. The CES Team will be highly responsive and will communicate proactively to keep projects moving, to avoid surprises, and to mitigate delivery risks. We will be accessible and responsive and will interface with your team face-to-face when needed. The CES Team's continued success is due in part to the collaborative and proactive management style that we bring to each and every work order. Prior to beginning work, we will meet with the City and other stakeholders to ensure that we fully understand your goals and preferences. This information will be relayed to the entire team, ensuring that there is a common vision and a clear understanding of how we will achieve this vision while maximizing the return on your investments. With a diverse and deep bench of professionals, each task order will be addressed with assignment of the right professionals, each of whom is ready to start and experienced in the work required. This approach drives solid budget control. The CES Team is dedicated to working cohesively with the City to define, plan, design, and implement your proposed projects.

Sustainable Business Practices

CES is committed to sustainability and conservation, not only in the design and construction of our projects, but also in our business practices. In addition to being members and annual sponsors of the Florida American Water Works Association, the American Society of Civil Engineers, and the Florida Engineering Society and their respective sustainability efforts and programming, our offices in Pembroke Pines and Miami are located in LEED-certified buildings with occupancy sensors, low flow and efficient fixtures, greenery and plants for air quality, and recycled-content, local/regional materials. We also utilize recycled paper and plastic products, reusable dishware and silverware for the offices, and organic cleaners and are as paperless as possible, including using cloud-based applications and solutions for all of our Document Storage, HR and Accounting functions. **Additional information is included in Section 4.2.5: Approach to Scope of Work.**

Minority- or Woman-Owned Business

CES is a **Florida Unified Certification Program DBE** and a **Florida State Minority Supplier Development Council MBE**. Copies of our certificates are included below.

FDOT BROWARD COUNTY FLORIDA

Florida Unified Certification Program

Disadvantaged Business Enterprise (DBE) Certificate of Eligibility

CES CONSULTANTS INC

MEETS THE REQUIREMENTS OF 49 CFR, PART 26
APPROVED NAICS CODES:
541330, 541340

Victoria V. Smith
Victoria V. Smith
DBE & Small Business Development Manager
Florida Department of Transportation

THIS CERTIFIES THAT

CES Consultants, Inc.

dba CES Consultants, Inc.

* Nationally certified by the: **FLORIDA STATE MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): 541330; 541990; 541519; 541350; 541340; 541618; 541620; 541690; 922190; 924110

* Description of their product/services as derived by the North American Industry Classification System (NAICS)

07/26/2024	FL02429
Issued Date	**Certificate Number**
07/26/2025	Ying McGuire, NMSDC CEO and President
Expiration Date	**Beatrice Louissaint, President & CEO**

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: http://nmsdc.org

Certify. Develop. Connect. Advocate.

* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®

Additionally, we have partnered with **Garth Solutions, Inc. (GSI)**, a Florida M/WBE, to provide public engagement services. Copies of their certifications are included below.

State of Florida

Woman & Minority Business Certification

Garth Solutions, Inc

Is certified under the provisions of 287 and 295 DC, Florida Statutes, for a period from:
09/25/2024 09/25/2026

Pedro Allende
Florida Department of Management Services

Economic Development & Diversity Compliance

THIS CERTIFICATE IS AWARDED TO

Garth Solutions, Inc.

FOR HAVING SUCCESSFULLY MET THE PRESCRIBED STANDARDS SET FORTH BY THE SUPPLIER DIVERSITY OUTREACH PROGRAM OF THE SCHOOL BOARD OF BROWARD COUNTY, FLORIDA FOR

CERTIFICATION

Emerging/Small/Minority/Women Business Enterprise (E/S/M/WBE)
African-American

ON THIS DAY: March 6, 2024

Denise Mincey-Mills
Officer
Economic Development & Diversity Compliance

CERTIFICATION #: WS2255095172
SAP ID: 138668

Expiration Date: March 5, 2026

Licenses

The CES Team's professional licenses are included at the end of this section.

Comprehensive Summary of the Experience and Qualifications of Our Program Manager and Deputy Program Manager

A comprehensive summary of the experience and qualifications of **James (Jim) P. Wille, CGC**, our proposed Program Manager, and of **Eugene Collings-Bonfill, PE, PSM, PMP**, our proposed Deputy Program Manager, is included in **Section 4.2.2: Executive Summary**, **Section 4.2.4: Qualifications of the Project Team**, and **Section 4.2.5: Approach to Scope of Work.**

CES's Florida Certificate of Status

State of Florida
Department of State

I certify from the records of this office that CES CONSULTANTS, INC. is a corporation organized under the laws of the State of Florida, filed on October 6, 1997.

The document number of this corporation is P97000085972.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 6, 2025, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Sixth day of January, 2025

Secretary of State

Tracking Number: 0859582493CC

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

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

CES Consultants, Inc.

Licensee

Name:	**CES CONSULTANTS, INC.**	License Number:	**8811**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**02/28/2001**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
52515	Current, Active	ORTIZ, RUDY MANUEL	Registry		Professional Engineer	02/28/2027

Licensee

Name:	CES CONSULTANTS, INC	License Number:	
Rank:	Architect Business Information	License Expiration Date:	
Primary Status:	Current	Original License Date:	01/30/2024

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
AR98523	Current, Active	ALFONSO, JUAN MANUEL DBA:CES CONSULTANTS, INC	Responsible Supervisor	01/30/2024	Architect	02/28/2027
AR98523	Current, Active	ALFONSO, JUAN MANUEL DBA:CES CONSULTANTS, INC	Qualifying Architect	01/30/2024	Architect	02/28/2027

Colliers Engineering & Design, Inc.

COLLIERS ENGINEERING & DESIGN, INC.
101 CRAWFORDS CORNER RD STE 3400, HOLMDEL, NJ 07733-1983
Phone 732-704-5175

License Type	License#	Issued	Expires	Status
Surveyor Business	LB7388	03/15/05	02/28/27	Active
Surveyor of Record	LS6941	06/02/13	02/28/27	Active

Licensee

Name:	**COLLIERS ENGINEERING & DESIGN, INC.**	License Number:	**30301**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**05/09/2013**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
75738	Current, Active	MCFALL, RUSSELL T II	Registry	05/09/2013	Professional Engineer	02/28/2027

Craven Thompson & Associates, Inc.

Licensee

Name:	**CRAVEN, THOMPSON & ASSOCS INC**	License Number:	
Rank:	**Landscape Architecture Business Info**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**06/18/1985**
Secondary Status:	**Active**		

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
LA6666976	Current, Active	PEAVLER, SCOTT WADE DBA:CRAVEN, THOMPSON & ASSOC INC	Landscape Architect	11/08/2023	Registered Landscape Architect	11/30/2025

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LB271
Expiration Date February 28, 2027

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

CRAVEN-THOMPSON & ASSOC, INC
3563 NW 53RD ST
FT LAUDERDALE, FL 33309-6311

WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

GHD Services Inc.

Licensee

Name:	**GHD SERVICES INC**	License Number:	**9931**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**12/17/2003**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
64017	Current, Active	MOORE, BRIAN	Registry	09/12/2019	Professional Engineer	02/28/2027

Jacobs Engineering Group, Inc.

Licensee

Name:	JACOBS ENGINEERING GROUP INC	License Number:	
Rank:	Landscape Architecture Business Info	License Expiration Date:	
Primary Status:	Current	Original License Date:	02/10/2009

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
LA0001156	Current, Active	NEIN, BRETT A DBA:JACOBS ENGINEERING GROUP INC	Landscape Architect	01/27/2009	Registered Landscape Architect	11/30/2025

Licensee

Name:	JACOBS ENGINEERING GROUP INC.	License Number:	2822
Rank:	Registry	License Expiration Date:	
Primary Status:	Current	Original License Date:	05/21/1979

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
66932	Current, Active	STEJSKAL, DAVID C	Registry		Professional Engineer	02/28/2027

Licensee

Name:	JACOBS ENGINEERING GROUP INC	License Number:	
Rank:	Architect Business Information	License Expiration Date:	
Primary Status:	Current	Original License Date:	05/30/1989
Secondary Status:	Active		

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
AR0017275	Current, Active	KIRBY, DANIEL LEE JR DBA:PREMIERE CITIES	Responsible Supervisor	10/05/2021	Architect	02/28/2027
AR0017275	Current, Active	KIRBY, DANIEL LEE JR DBA:PREMIERE CITIES	Qualifying Architect	10/05/2021	Architect	02/28/2027

Terracon Consultants, Inc.

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

Florida dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

ONLINE SERVICES

Apply for a License
Verify a Licensee
View Food & Lodging Inspections
File a Complaint
Continuing Education Course Search
View Application Status
Find Exam Information
Unlicensed Activity Search
AB&T Delinquent Invoice & Activity List Search

Licensee

Name:	**TERRACON CONSULTANTS, INC.**	License Number:	**8830**
Rank:	**Registry**	License Expiration Date:	
Primary Status:	**Current**	Original License Date:	**02/28/2001**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
53962	Current, Active	ACREE, RICHARD G	Registry	10/29/2018	Professional Engineer	02/28/2027

Licenses for Key Personnel

Ron DeSantis, Governor
Melanie S. Griffin, Secretary
Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

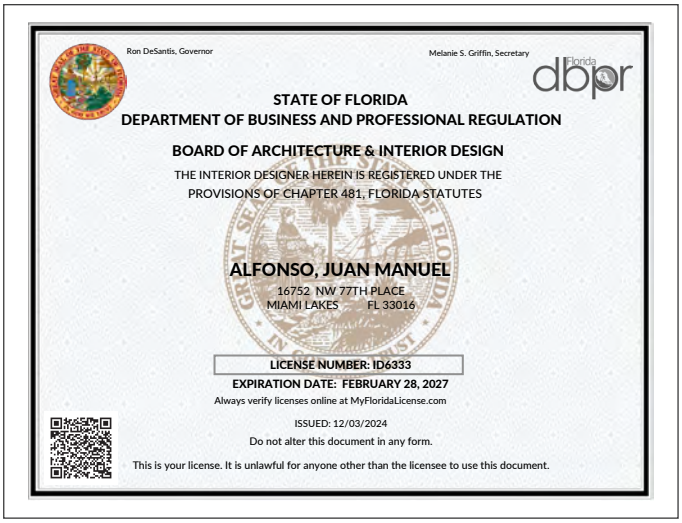
BOARD OF ARCHITECTURE & INTERIOR DESIGN

THE ARCHITECT HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

ALFONSO, JUAN MANUEL
CES CONSULTANTS, INC
16752 NW 77TH PLACE
MIAMI LAKES FL 33016

LICENSE NUMBER: AR98523
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

ISSUED: 12/03/2024
Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.



Ron DeSantis, Governor
Melanie S. Griffin, Secretary
Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF ARCHITECTURE & INTERIOR DESIGN

THE INTERIOR DESIGNER HEREIN IS REGISTERED UNDER THE
PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

ALFONSO, JUAN MANUEL
16752 NW 77TH PLACE
MIAMI LAKES FL 33016

LICENSE NUMBER: ID6333
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

ISSUED: 12/03/2024
Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.

The Construction Manager Certification Institute

CCM

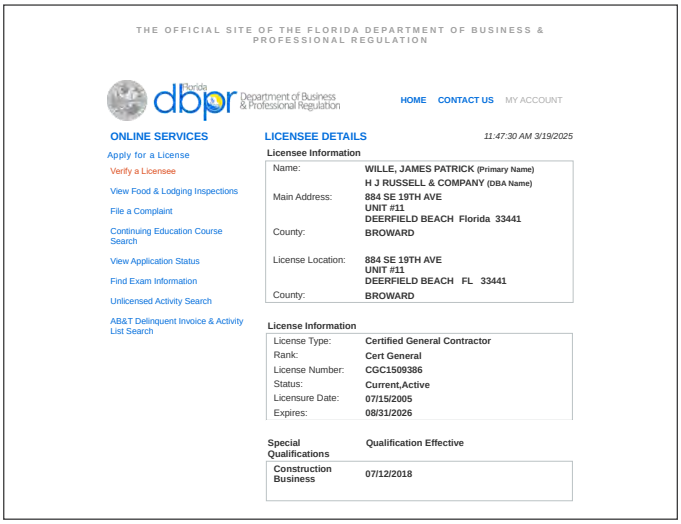
Certified Construction Manager

Juan Alfonso

has voluntarily met the prescribed criteria of the CCM program with regard to formal education, practical experience and demonstrated capability and understanding of the construction management body of knowledge. The aforementioned individual has met the professional standards and demonstrated a commitment to providing the highest level of quality professional construction management services.

31396
CMCI #
CMCI Board of Governors Chair

January 2023
Certification Date
January 2026
Valid Through



THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

Florida dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

ONLINE SERVICES
Apply for a License
Verify a Licensee
View Food & Lodging Inspections
File a Complaint
Continuing Education Course Search
View Application Status
Find Exam Information
Unlicensed Activity Search
AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS
11:47:30 AM 3/19/2025

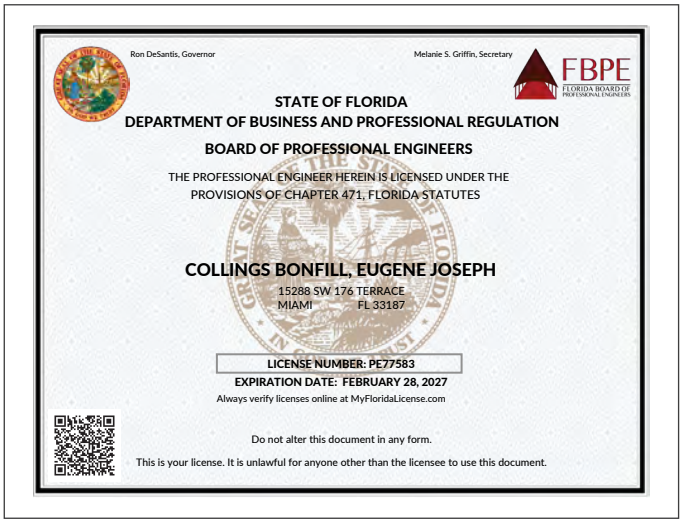
Licensee Information

Name:	WILLE, JAMES PATRICK (Primary Name) H J RUSSELL & COMPANY (DBA Name)
Main Address:	884 SE 19TH AVE UNIT #11 DEERFIELD BEACH Florida 33441
County:	BROWARD
License Location:	884 SE 19TH AVE UNIT #11 DEERFIELD BEACH FL 33441
County:	BROWARD

License Information

License Type:	Certified General Contractor
Rank:	Cert General
License Number:	CGC1509386
Status:	Current,Active
Licensure Date:	07/15/2005
Expires:	08/31/2026

Special Qualifications	Qualification Effective
Construction Business	07/12/2018



Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

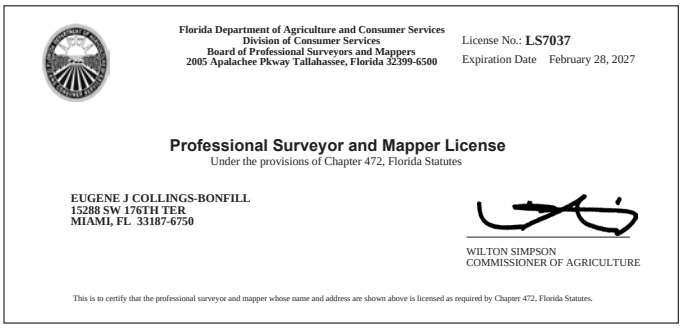
BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

COLLINGS BONFILL, EUGENE JOSEPH
15288 SW 176 TERRACE
MIAMI FL 33187

LICENSE NUMBER: PE77583
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LS7037
Expiration Date February 28, 2027

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

EUGENE J COLLINGS-BONFILL
15288 SW 176TH TER
MIAMI, FL 33187-6750

WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Licenses for Key Personnel

Project Management Institute.

THIS IS TO CERTIFY THAT

Eugene Collings-Bonfill

HAS BEEN FORMALLY EVALUATED FOR DEMONSTRATED EXPERIENCE, KNOWLEDGE AND PERFORMANCE IN ACHIEVING AN ORGANIZATIONAL OBJECTIVE THROUGH DEFINING AND OVERSEEING PROJECTS AND RESOURCES AND IS HEREBY BESTOWED THE GLOBAL PROFESSIONAL CERTIFICATION

Project Management Professional (PMP)®

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE

Ike Nwankwo, PMP | Chair, Board of Directors

Pierre Le Manh | President & CEO

Certification Number: 1620796 Original Grant Date: 22 June 2013 Expiration Date: 22 June 2028

Ron DeSantis, Governor

Melanie S. Griffin, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

PEAVLER, SCOTT WADE

CRAVEN, THOMPSON & ASSOC INC
4311 NW 103RD AVENUE
SUNRISE FL 33351

LICENSE NUMBER: LA6666976

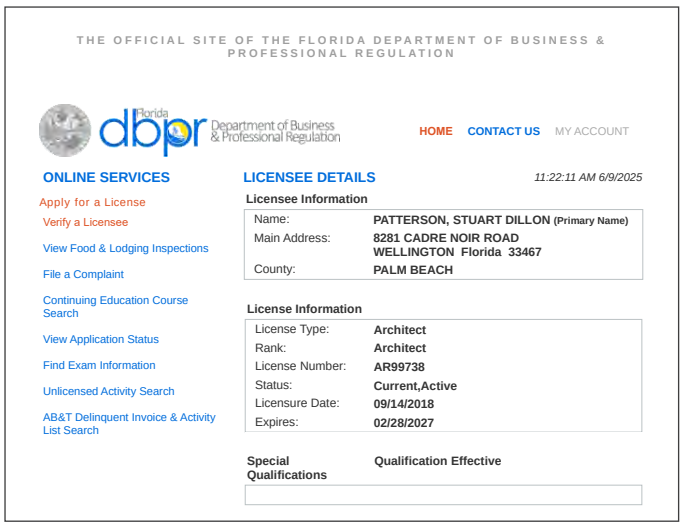
EXPIRATION DATE: NOVEMBER 30, 2025

Always verify licenses online at MyFloridaLicense.com

ISSUED: 11/14/2023

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

Florida dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

ONLINE SERVICES

Apply for a License
Verify a Licensee
View Food & Lodging Inspections
File a Complaint
Continuing Education Course Search
View Application Status
Find Exam Information
Unlicensed Activity Search
AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS *11:22:11 AM 6/9/2025*

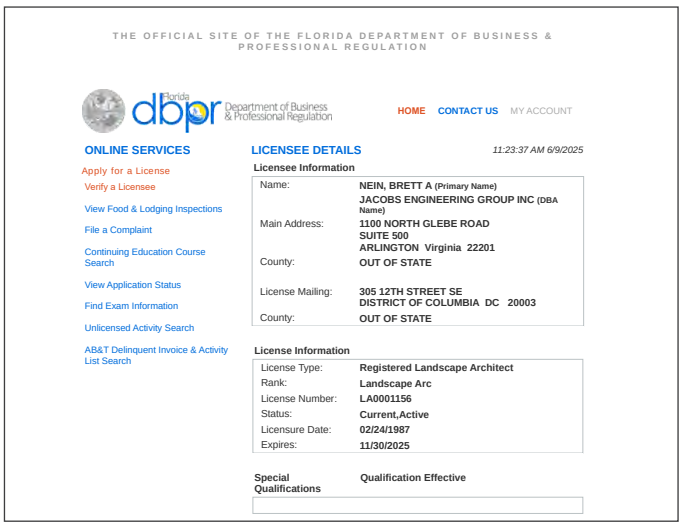
Licensee Information

Name:	PATTERSON, STUART DILLON (Primary Name)
Main Address:	8281 CADRE NOIR ROAD WELLINGTON Florida 33467
County:	PALM BEACH

License Information

License Type:	Architect
Rank:	Architect
License Number:	AR99738
Status:	Current,Active
Licensure Date:	09/14/2018
Expires:	02/28/2027

Special Qualifications	Qualification Effective



THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

Florida dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

ONLINE SERVICES

Apply for a License
Verify a Licensee
View Food & Lodging Inspections
File a Complaint
Continuing Education Course Search
View Application Status
Find Exam Information
Unlicensed Activity Search
AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS *11:23:37 AM 6/9/2025*

Licensee Information

Name:	NEIN, BRETT A (Primary Name) JACOBS ENGINEERING GROUP INC (DBA Name)
Main Address:	1100 NORTH GLEBE ROAD SUITE 500 ARLINGTON Virginia 22201
County:	OUT OF STATE
License Mailing:	305 12TH STREET SE DISTRICT OF COLUMBIA DC 20003
County:	OUT OF STATE

License Information

License Type:	Registered Landscape Architect
Rank:	Landscape Arc
License Number:	LA0001156
Status:	Current,Active
Licensure Date:	02/24/1987
Expires:	11/30/2025

Special Qualifications	Qualification Effective

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.4 Qualifications of the Project Team

4.2.4 Qualifications of the Project Team

CES has an experienced and diverse team of qualified professionals with a deep portfolio of relevant projects completed for municipalities and public agencies, strong in talent and technical expertise, and specifically focused for the assignments the City has planned for this program. The CES Team includes qualified professionals in the various disciplines and specialties required to accomplish the potential tasks orders requested by the City.

Our professional staff has an established record of experience and performance with public-sector agencies in Florida that exemplifies the quality and ability that the City desires. The CES Team is dedicated to working cohesively with the City to define, plan, design, and implement your projects.

The members of the project team are listed in the table below and on the following pages. Each team member's qualifications is included in their respective brief resumes in this section. Our proposed organizational chart is included after the table. We have also included in this section brief narratives highlighting our key personnel.

Team Member	Project Role	Project Responsibilities	Qualifications/ Resume Page Number	Level of Involvement*/ Percent of Availability*
indicates key personnel				
Juan Alfonso, AIA, NCARB, RID, CCM	Principal-in-Charge	Has overall responsibility and accountability for the CES Team	35	10%
James (Jim) P. Wille, CGC	Program Manager	Provides program leadership, stakeholder coordination, and team oversight	36	75%
Eugene Collings-Bonfill, PE, PSM, PMP	Deputy Program Manager	Oversees design phases, coordinates consultants, and ensures technical integration	38	90%
David Hoot, PE	QA/QC Lead	Provides internal QA/QC compliance	39	25%
Michael Barnett, PE, BC.CE	Permitting Lead	Ensures permitting readiness	40	25%
Javier Cabrera Marini	Performance Analytics Lead	Sets Key Performance Indicators, builds dashboard tools, and provides trend tracking	42	25%
Russell McElreath, CCP	Cost Estimating	Manages budgets, performs value engineering	43	25%
Leigh Shaw, CCP, LEED AP BD+C, VMA	Cost Estimating	Manages budgets, performs value engineering	44	25%
Kevin Payne, PSP, CCM	Scheduling	Manages schedules, performs value engineering	45	50%
Yvonne Garth	Public Engagement Lead	Develops and executes public engagement and digital outreach strategy	46	25%
Brent Campbell	Public Engagement	Provides public engagement services	47	25%
Deniece Williams	Public Engagement	Provides public engagement services	48	25%
Beverly Santicola	Grants Management Lead	Identifies grants, aligns with bond funds, and prepares/tracks grant applications	49	25%

Team Member	Project Role	Project Responsibilities	Qualifications/ Resume Page Number	Level of Involvement*/ Percent of Availability*
indicates key personnel				
Marc Santicola	Grants Management	Provides grant management services	50	25%
Amanda L. Shepler	Grants Management	Provides grant management services	52	25%
Hollie Janson Schmidt	Planning Lead	Leads planning services	53	25%
Charles J. Moseley	Planning	Provides planning services	55	25%
Chad St. John, ASLA	Planning	Provides planning services	56	25%
David Savarese, AICP	Planning	Provides planning services	58	25%
Julie Ambrosino	Planning	Provides planning services	60	25%
Scott Peavler, PLA	Design Management – Landscape/Hardscape Design; Landscape Architecture	Manages landscape/hardscape design, provides landscape architecture services, and focuses on innovation, Master Plan alignment, site adaptation, and Florida-friendly design compliance	62	100%
Stuart D. Patterson, AIA	Design Management – Facilities Design; Facilities Architecture	Manages vertical facilities design, provides vertical facilities architecture services, and focuses on innovation, Master Plan alignment, site adaptation, and Florida-friendly design compliance	64	100%
Ernesto (Ernie) Z. Cano	Construction & CEI Management	Provides construction oversight, phasing coordination, inspections, and reporting	66	100%
Rafael Urdaneta	Construction Management	Provides construction oversight and field coordination	68	80%
Jorge Zurita, CGC	Construction Management	Provides construction oversight and field coordination	69	100%
Mary Cardenas-Aldir	Construction Engineering & Inspection	Provides daily field inspections, punch-list tracking, and conformance verification	71	100%
Masoud "Max" Ghasemloian	Construction Engineering & Inspection	Provides daily field inspections, punch-list tracking, and conformance verification	72	100%
Denis Denis, PE, PSM	Surveying	Provides on-call support in respective discipline	73	On call
Richard Crawford, PSM	Surveying	Provides on-call support in respective discipline	74	On call
Raymond Young, PSM	Surveying	Provides on-call support in respective discipline	75	On call
Hugo E. Soto, PE	Geotechnical Engineering	Provides on-call support in respective discipline	77	On call

Team Member	Project Role	Project Responsibilities	Qualifications/ Resume Page Number	Level of Involvement*/ Percent of Availability*
indicates key personnel				
C. Nicholas "Nick" Mata, PE	Geotechnical Engineering	Provides on-call support in respective discipline	79	On call
Sarah Marrs, PLA, ASLA, LEED	Facilities Architecture	Provides on-call support in respective discipline	81	On call
Brett Nein, PLA, ASLA, ENV SP	Landscape Architecture	Provides on-call support in respective discipline	83	On call
Christine M. Crespo Valentín	Landscape Architecture	Provides on-call support in respective discipline	85	On call
Nicole Pastre, PLA	Landscape Architecture	Provides on-call support in respective discipline	87	On call
Nathan A. Raimondo	Landscape Architecture	Provides on-call support in respective discipline	89	On call
Jason M. Bird, CFM	Civil Engineering	Provides on-call support in respective discipline	90	On call
Brett Rowan, PE	Structural Engineering	Provides on-call support in respective discipline	92	On call
Kelvin Chang, PhD, PE, LEED AP BD+C	Mechanical Engineering	Provides on-call support in respective discipline	94	On call
Bemen Makaryous, PE	Electrical Engineering	Provides on-call support in respective discipline	96	On call
Nicholas Bragaia, PE, ENV SP	Coastal & Marine Engineering	Provides on-call support in respective discipline	98	On call
Anne E. Shoffner	Coastal & Marine Engineering	Provides on-call support in respective discipline	100	On call
Jessica R. Rakich, PE	Coastal & Marine Engineering	Provides on-call support in respective discipline	102	On call
Jesse W. Davis, PE, ENV SP	Coastal & Marine Engineering	Provides on-call support in respective discipline	104	On call
Frederick Thompson, CGC	Bidding Assistance	Provides on-call support in respective discipline	106	On call
Susanne M. Torriente	Climate Adaptation/ Resiliency	Provides on-call support in respective discipline	107	On call
Kira T. Zender, AICP	Environmental Permitting Specialist	Provides on-call support in respective discipline	109	On call
Lyndsey Lopez	Solid Waste Recycling	Provides on-call support in respective discipline	110	On call
Harold L. Booker Jr., PMP, CSM	PMIS Specialist	Provides on-call support in respective discipline	112	On call

** Please note the level of involvement and availability will be updated after contract award to ensure participation aligns with the awarded scope and program requirements.*

Organizational Chart

The CES Team

1. CES Consultants, Inc. (M/DBE)
2. Colliers Engineering & Design, Inc.
3. Craven Thompson & Associates, Inc.
4. Garth Solutions, Inc. (M/WBE)
5. GHD Services Inc.
6. Jacobs Engineering Group, Inc.
7. Santicola & Company
8. Terracon Consultants, Inc.
9. U.S. Cost, Incorporated (dba RIB U.S.COST)

PARKS & RECREATION
City of Fort Lauderdale

Principal-in-Charge
Juan Alfonso, AIA, NCARB, RID, CCM [1]

Program Manager
James (Jim) P. Wille, CGC [1]

QA/QC & Permitting Leads
QA/QC
David Hoot, PE [1]
Permitting
Michael Barnett, PE, BC.CE [5]

Controls and Analytics
Performance Analytics Lead
Javier Cabrera Marini [1]
Cost Estimating
Russell McElreath, CCP [9]
Leigh Shaw, CCP, LEED AP BD+C, VMA [9]
Scheduling
Kevin Payne, PSP, CCM [1]

Public Engagement
Yvonne Garth [4]
Brent Campbell [4]
Deniece Williams [4]

Grants Management
Beverly Santicola [7]
Marc Santicola [7]
Amanda L. Shepler [7]

Deputy Program Manager
Eugene Collings-Bonfill, PE, PSM, PMP [2]

Planning
Hollie Janson Schmidt [6]
Charles J. Moseley [1]
Chad St. John, ASLA [6]
David Savarese, AICP [6]
Julie Ambrosino [6]

Design Management
Landscape/Hardscape Design
Scott Peavler, PLA [3]
Facilities Design
Stuart D. Patterson, AIA [6]

Construction & CEI Management
Ernesto (Ernie) Z. Cano [1]
Construction Management
Rafael Urdaneta [1]
Jorge Zurita, CGC [1]
Construction Engineering & Inspection
Mary Cardenas-Aldir [1]
Masoud "Max" Ghasemloian [1]

On-Call Support

Surveying
Denis Denis, PE, PSM [2]
Richard Crawford, PSM [3]
Raymond Young, PSM [3]
Geotechnical Engineering
Hugo E. Soto, PE [8]
C. Nicholas "Nick" Mata, PE [8]

Facilities Architecture
Stuart D. Patterson, AIA [6]
Sarah Marrs, PLA, ASLA, LEED [6]
Landscape Architecture
Brett Nein, PLA, ASLA, ENV SP [6]
Christine M. Crespo Valentín [6]
Scott Peavler, PLA [3]
Nicole Pastre, PLA [3]
Nathan A. Raimondo [3]

Civil Engineering
Jason M. Bird, CFM [6]
Structural Engineering
Brett Rowan, PE [6]
Mechanical Engineering
Kelvin Chang, PhD, PE, LEED AP BD+C [6]
Electrical Engineering
Bemen Makaryous, PE [6]

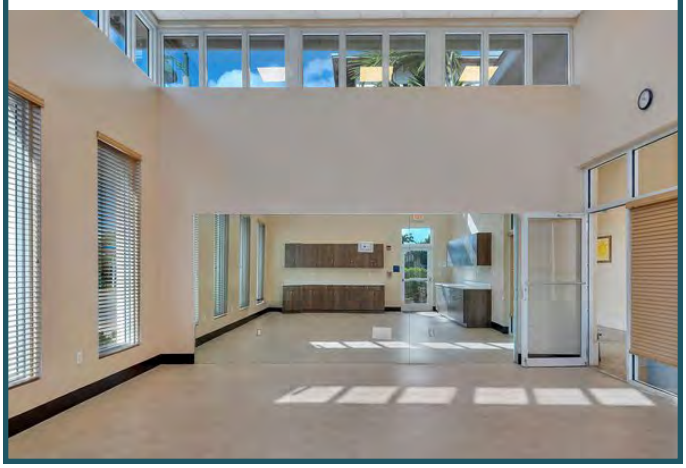
Coastal & Marine Engineering
Nicholas Bragaia, PE, ENV SP [5]
Anne E. Shoffner [5]
Jessica R. Rakich, PE [5]
Jesse W. Davis, PE, ENV SP [5]
Bidding Assistance
Frederick Thompson, CGC [1]
Climate Adaptation/Resiliency
Susanne M. Torriente [6]

Environmental Permitting Specialist
Kira T. Zender, AICP [6]
Solid Waste Recycling
Lyndsey Lopez [6]
PMIS Specialist
Harold L. Booker Jr., PMP, CSM [1]

Juan Alfonso, AIA, NCARB, RID, CCM
Principal-in-Charge

Juan is the president of CES and has **over 28 years of substantial experience in program management, project management, program controls, construction management, scheduling, estimating, value engineering, claims, and design management/ development.** Juan has extensive experience managing large and complex programs and clients throughout Florida and abroad. He has participated in a multitude of different program and project types, including stormwater, water/wastewater, transportation, commercial, justice, K-12, higher education, transit, rail, port, coastal, environmental, healthcare, and residential projects throughout the nation. Through his many years of experience leading and supporting these program and project types, Juan has developed a focused approach that results in excellent service to his clients. In particular, he has successfully managed program management/ controls contracts for municipal programs, bond and sales tax funded programs, and K-12, higher education, and municipal clients for construction projects totaling more than $31B over the last 20 years. He maintains a high level of client satisfaction due to his leadership abilities and commitment to quality work.

Juan served as a Program Executive for the City of Doral General Obligation Parks Bond Program contract. His primary responsibilities were corporate oversight and client service management.



James (Jim) P. Wille, CGC
Program Manager

Jim is a seasoned construction executive with **40 years of experience** overseeing large-scale commercial, institutional, and government infrastructure projects. He brings a proven track record of leading complex, high-value programs, ensuring seamless execution from planning through project completion. Jim has managed multibillion-dollar construction programs across aviation, healthcare, education, justice, and public assembly sectors. His leadership has been instrumental in the successful delivery of major infrastructure projects, including municipal upgrades, large-scale medical facilities, sports venues, and corporate headquarters. **With a deep understanding of public-private partnerships and capital improvement programs, Jim excels in navigating regulatory requirements, risk management, and operational logistics to drive project success.**

Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities for the City of Doral's General Obligation Parks Bond Program, a $200M program with a complex scope. He managed the program to a successful outcome, with projected savings of more than $9.8M as of March 2025 and completing projects on time and under budget.

Relevant experience includes **Doral Central Park, Doral Cultural Arts Center, Doral Meadow Park, Doral White Course Park, and Morgan Levy Park, as well as Central Broward Regional Park & Stadium Design-Build,** which consisted of the design and construction of a $70M, 110-acre, multi-use sports complex featuring a 20,000-capacity stadium centered around a 167-yard (153-meter) circular grass field; the first International Cricket Council (ICC)-certified cricket pitch in the U.S. The park also includes soccer and football fields, basketball and tennis courts, netball, pickleball, water playgrounds, and a variety of recreational and special event amenities. The project received the 2008 National Association of County Park & Recreation Officials (NACPRO), Class II Award for Park & Recreation Areas & Facilities.

Eugene Collings-Bonfill, PE, PSM, PMP

Deputy Program Manager

Eugene brings **26 years of comprehensive experience** in the engineering and construction industry, with expertise spanning surveying, engineering design, program and project management, and construction oversight. His career has been largely focused on municipal infrastructure, with a strong emphasis on parks and public spaces. Notably, Eugene was assigned under the Doral City Manager as Project Representative to oversee the City's General Obligation Parks Bond Program for Doral, which included the design and construction of various projects citywide for the enhancement of the City's parks. Eugene was responsible for the day-to-day planning, coordination, and execution of multiple park improvement projects under the bond initiative. His proven ability to manage complex, multi-stakeholder projects within a public agency framework makes him qualified to support the City of Fort Lauderdale's Parks Bond Program. He understands the importance of aligning project delivery with bond compliance, community expectations, and City objectives—ensuring transparency, fiscal responsibility, and timely execution across all phases of program implementation.

Relevant experience includes **Doral Cultural Arts Center, Doral Meadow Park, Doral White Course Park, and Morgan Levy Park.**

Yvonne Garth

Public Engagement Lead

Yvonne, President & CEO of Garth Solutions, Inc. (GSI), brings 30+ years of strategic leadership in public relations, marketing, and communications to complex, high-profile projects throughout South Florida and beyond. Since founding GSI in 2003, Yvonne has established the firm as a trusted partner for public and private sector clients dedicated to engaging diverse stakeholders in transformative initiatives. **Under her leadership, GSI has successfully executed comprehensive outreach and communication campaigns for prominent organizations that include Broward County Public Schools, Broward County Aviation Department, and nearly all municipalities across Broward.**

Yvonne's expertise spans stakeholder engagement, brand development, targeted messaging, media relations, and more. Her background includes nearly a decade as an Advertising and Public Relations Executive at a top-tier agency, where she directed strategic campaigns for global brands, laying a strong foundation for GSI's innovative approach to public sector communications.

Renowned for her ability to leverage deep community relationships, Yvonne consistently facilitates strategic partnerships and collaborations that deliver measurable results. **Her commitment to public service and community engagement is exemplified by her previous roles as Commissioner and Vice Mayor for the City of Miramar, as well as Chair and Board Member for the Broward County Small Business Advisory Board, and Board Member of the Miramar Cultural Arts Trust.** This blend of local insight and firsthand industry insight positions GSI as a premier communications firm adept at navigating complex, multi-stakeholder environments.

Beverly Santicola
Grants Management Lead

Beverly turned an agricultural childhood and lifetime of work experiences into a purpose-driven mission to grow a new generation of leaders for the future of America. She is an award-winning film producer, social entrepreneur, idea generator, problem solver, program developer, project facilitator, public speaker, and grant writing consultant. Over the past ten years, Beverly has dedicated her expertise and energy in the arenas of community development, language and cultural preservation, intergenerational leadership, and collaborative partnership building for the Ute Mountain Ute Tribe. **Working with a team of professional grant writers for 25 years that have generated more than $1B in grant funding for clients, she has been nationally recognized for social innovation and leadership excellence by the U.S. Department of Interior, Bureau of Indian Affairs in connection with the Tiwahe Initiative, as well as Encore.org as a 2010 and 2014 Purpose Prize Fellow sponsored by the Atlantic Philanthropies and John Templeton Foundation.** In her role as Grants Consultant, Beverly also provides facilitation services for multiple grant-funded programs, communicating regularly with federal government officials to assure systemic integration and the implementation of coordinated service delivery systems.

Within the last five years, Santicola & Company has significantly contributed to the following major grant-funded infrastructure projects: $40MM broadband (five grants); $11MM highway safety project (one grant); $7.5MM domestic water (one grant); $2.5MM transportation planning and design (one grant); $4.6MM housing (four grants).

Hollie Janson Schmidt
Planning Lead

Hollie is a Principal, a National Director for the premier Advisory Solutions – Planning Practice and a liaison to Jacobs Corporate for Sustainability, Resilience & Climate Response for the Americas. She manages consulting and advisory services to a wide range of clientele across the federal, state, local, environmental, buildings and infrastructure, and other markets at Jacobs. Hollie leads an impressive group of consulting and planning practitioners that focus on the federal and environmental portfolio and serves as a portal into Jacobs' vast technical services for logical, defendable, fundable, sustainable and resilient solutions. **She has experience in program management, parks and recreation planning and programming, trails and multi-use path planning, community hubs and resilience initiatives, and stakeholder facilitation. Hollie has led inter-disciplinary teams that deliver strong and efficient solutions across the natural and man-made environments.**

Relevant experience includes the following:

» **Fort Christmas Park Master Plan Update, Orange County, FL:** Project Manager for the update to the existing Fort Christmas Park Master Plan layout and rendering. The existing park contains historical "Florida Cracker Homes" representing various timeframes that have been either acquired or replicated. A recent acquisition of an adjacent 113-acre parcel will significantly expand the park, and Jacobs is under contract to master plan the new parcel.

» **Moss Park Master Plan, Orange County, FL:** Project Manager for the creation of a master plan for the 50-acre "day use" area of Moss Park. Traditionally a rural park, Moss Park is located on the outskirts of Orlando in an area that is quickly developing. Growth pressures have forced the park to become more active in nature than its previous passive nature.

Scott Peavler, PLA

Design Management – Landscape/Hardscape Design

Scott has been involved in a broad range of landscape architectural/park design projects in South Florida for the past 20 years, 16 of those with Craven Thompson & Associates. Having worked in both the public and private sectors, Scott is widely familiar with client needs and project requirements and processes. He is responsible for overseeing the preparation and processing of park design, site design, landscape, hardscape, complete streets, streetscape, median enhancement and irrigation plans, utilizing his knowledge of local, state and federal regulations. Scott has direct client contact to obtain project input and approvals, responsible for completion of projects on time and within budget.

Examples of Scott's recent past park projects include the following:

- **Cypress Preserve Park**
- **12th Street Park**
- **Bluesten Park**
- **Veterans Memorial Park**
- **Westend Firefighter Park**
- **Nob Hill Soccer Park**
- **Caporella Park**
- **Sunrise Sportsplex**

Stuart D. Patterson, AIA

Design Management – Facilities Design

Stuart has **30 years of experience in program and project management, architecture and construction management.** With a broad background in all phases of management, design and construction, including new construction, additions and renovations, Stuart's management experience spans a wide range of public and private markets, including parks and parks facilities, commercial, corporate office, justice, education, industrial, and aviation, projects, from design conception through construction administration and project close-out. **His primary strengths are his ability to successfully manage and complete multiple simultaneous projects of all scales on time and under budget, ensuring project design intent adherence and quality assurance and control.**

Stuart has provided program and program management services on multiple public park projects of multiple sizes and complexities, from athletic surfaces and lighting replacement to an entirely new 55-acre park. He serves as the trusted liaison to the client and the public, as well as a manager of professional services, including planning, design, specialty consultants and permitting. **As a licensed architect for over 25 years, Stuart has extensive experience as a design project manager, empowering him with valuable skills and experience necessary to ensure adherence to design schedules, budgets and design intent, as well as provide conceptual design and materials alternatives.** Additionally, he has comprehensive construction administration experience, including preconstruction, financial, scheduling, procurement and contractor management. Stuart is highly skilled at delivering design and construction quality assurance and control, financial management, conflict resolution and public engagement, providing significant value to clients to mitigate program risks and position projects for success.

Ernesto (Ernie) Z. Cano
Construction & CEI Management

Ernie has **over 40 years of experience** in MEP, civil, and electrical design and construction of residential, commercial, aviation, electrical transmission & distribution facilities, and water & sewer infrastructure and facilities projects and programs ranging in size to $4.3B.

As Construction Program Manager, Ernie has worked side-by-side with public and municipal clients and owners to deliver large-scale multi-disciplinary and multi-phase Capital Improvement Programs (CIP) on time and within budget while upholding the highest standards of quality and safety. His expertise includes management of pre-planning, design, construction, warranty, training, start-up and commissioning, and close-out in all types of project delivery methods including design-bid-build, design-build, and construction manager-at-risk.

Relevant experience includes the following:

- **City of Miami Office of Capital Projects Program/ Project Management Services, Miami, FL:** Senior Construction Project Manager on Miami Forever Bond-funded projects such as roadways and right of ways, parks, municipal facilities, public facilities, public safety facilities, environmental, and sea-level rise, and flood prevention infrastructure projects, as well as other capital projects as assigned by the City's Office of Capital Improvements (OCI). Projects being managed by Ernie include the following:
  - **Dr. Armando Badia Senior Center Renovation & Expansion at Flagami Park**
  - **Elizabeth Virrick Park New Aquatic Facility**
  - **Fairlawn Community Park, Phases I & II**
  - **West End Park & Pool Enhancements**
  - **Shenandoah Park Improvements & Pool Enhancements**
  - **Miami Marine Stadium**

Brett Nein, PLA, ASLA, ENV SP
Landscape Architecture

With more than **39 years of professional experience,** Brett focuses on urban design, parks and recreation, transportation infrastructure enhancements, mixed-use communities planning, and public transportation sites feasibility planning. **Brett has previously served as a Chapter President for the American Society of Landscape Architects.** His additional areas of expertise include municipal design and planning; traditional landscape architecture; entitlements for large, comprehensive developments of regional impact; project management; and contract execution. He has experience as an expert witness in landscape and environmental case matters, complementing his design work with issues of public concern.

Relevant experience includes the following:

Oakland "Bark Park," Oakland Park, FL: Serving as the PM and Principal Landscape Architect, Brett led the team that developed, designed and permitted plans for the City's first Dog Park, located on a 2.5-acre abandoned police and sheriff's training site. Jacobs provided services for the new project including design and construction documents for two large and separate canine fitness courses with 18 exercise stations, new car park and lighting, picnic shelters, a management office kiosk, a pet wash station, as well as unique signage, fencing, and access control features to ensure safe and friendly operations.

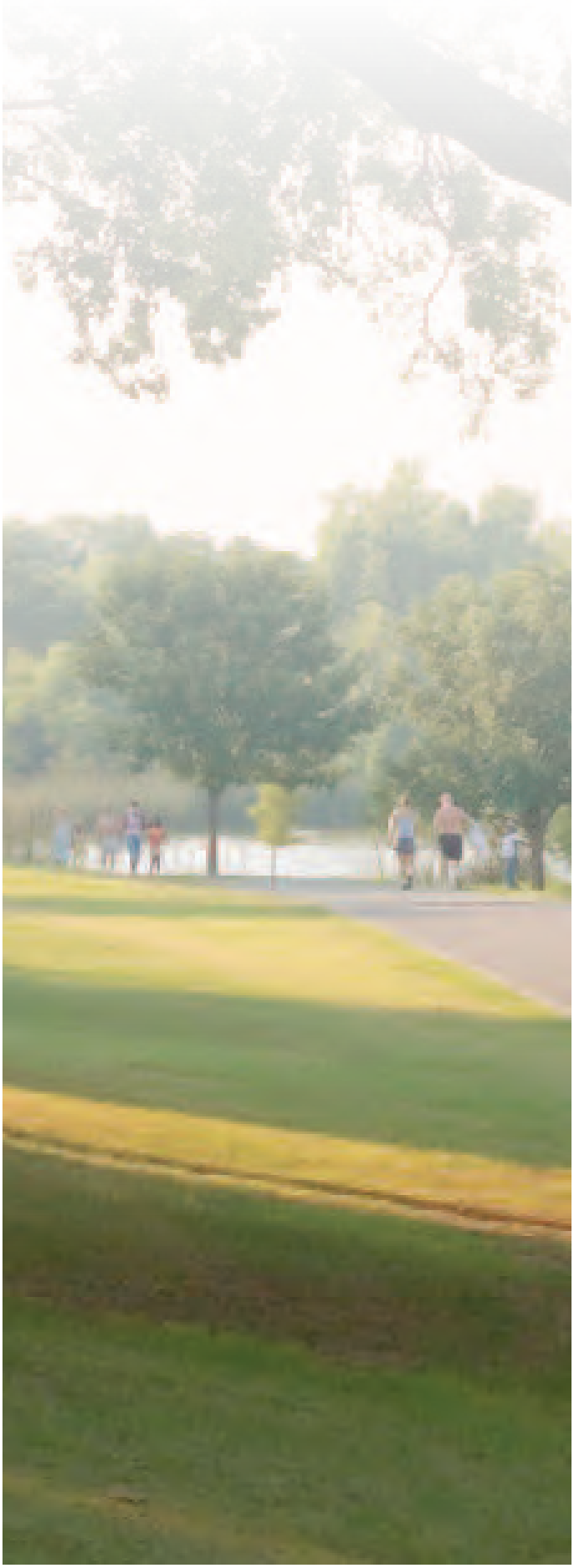
Ivey Road Park, Jacksonville, FL: Project Manager/ Principal Landscape Architect. Ivey Road Park is an 11-acre undeveloped tract of land owned by the City of Jacksonville, to be developed into one of the City's premier parks. As a sub-consultant, Jacobs provided full landscape architectural services to include development of the conceptual master plan, planting design, hardscape, sports courts, and irrigation design through final construction documentation, cost estimating, as well as permitting documentation to support the required permit application.

Susanne M. Torriente

Climate Adaptation/Resiliency

Highlights include the following:

- Experienced in breaking down complex issues into manageable solutions, fostering collaboration and integrating resilience and climate adaptation into interdisciplinary teams, policies and projects.
- Focused on leveraging Jacobs' broad base resilience skills to deliver integrated climate and resilience solutions to client communities.
- **Served as Assistant City Manager in Fort Lauderdale and Miami Beach,** leading a portfolio of departments including sustainable development (building, planning, zoning, economic development, community development), transportation and mobility, environment and sustainability, public works and capital improvement, housing, and parks).
- **More than 30 years of experience, with the last 15 years specializing in sustainability, climate adaptation and resilience integrated planning.**
- **Eight years as Miami-Dade County Assistant County Manager for Public Safety and Emergency Management.**
- **First Miami-Dade County Sustainability Director.**
- **First Miami Beach Chief Resilience Officer.**
- **Founding member of the Southeast Florida Regional Climate Compact** that includes Broward, Miami-Dade, Monroe, and Palm Beach Counties; served as a County representative and City representative.



JUAN ALFONSO, AIA, NCARB, RID, CCM

President & COO; Principal-in-Charge

YEARS EXPERIENCE

28

EDUCATION

Wharton Executive Education Program, University of Pennsylvania, 2022-2023

MS, Construction Management, Florida International University, 2000

BA, Architecture, University of Miami, 1997

AA, Architecture, Miami-Dade College, 1994

REGISTRATIONS & CERTIFICATIONS

Florida Registered Architect #AR98523, 2017

Florida Registered Interior Designer #ID6333, 2017

New York Registered Architect #045630, 2023

Certified Construction Manager

National Council of Architectural Registration Board (NCARB)

Certified Uniform Building Code Inspector (UBCI)

PROFESSIONAL AFFILIATIONS

AACE International

Project Management Institute (PMI)

American Institute of Architects, Associate (AIA)

Construction Management Association of America (CMAA)

Greater Miami Chamber of Commerce (GMCC)

Florida Chamber of Commerce

Coral Gables Chamber of Commerce

Latin America Chamber of Commerce

Mr. Juan Alfonso is the president of CES Consultants and has over 28 years of substantial experience in program management, project management, program controls, construction management, scheduling, estimating, value engineering, claims, and design management/development. Juan has extensive experience managing large and complex programs and clients throughout Florida and abroad. He has participated in a multitude of different program and project types, including stormwater, water/wastewater, transportation, commercial, justice, K-12, higher education, transit, rail, port, coastal, environmental, healthcare, and residential projects throughout the nation. Through his many years of experience leading and supporting these program and project types, Juan has developed a focused approach that results in excellent service to his clients. In particular, he has successfully managed program management/controls contracts for municipal programs, bond and sales tax funded programs, and K-12, higher education, and municipal clients for construction projects totaling more than $31 billion over the last twenty years. He maintains a high level of client satisfaction due to his leadership abilities and commitment to quality work.

Experience includes:

City of Doral Parks Program, Doral, FL: Program Executive for the Program Management contract. The City of Doral Parks Program includes the design and construction of parks and other facilities.

Village of Key Biscayne Stormwater Master Plan/Program, Key Biscayne, FL: As Vice President of Program Management Services, supported the Village of Key Biscayne with program management support services specifically in determining goals and vision for grant request with the Army Corps of Engineering. Worked directly with the Village's City Manager and Public Works director in order to develop the framework required to obtain approval from the Army Corps of Engineering on their shoreline protection plan. Additionally, worked with Village leadership and in an executive role while providing resource allocation support.

Jackson Health System Miracle Bond Program Management, Miami, FL: Program Executive for the Miracle Bond Program, which consists of the countywide rehabilitation of the health care facilities owned by Jackson Health System, a non-profit organization and one of the nation's largest public health systems. This $1.2B, 10-year health care program was one of the largest in the nation and entailed the design and construction of two new hospitals, a rehabilitation center, an EDICU Center, and the renovations of two existing hospitals. Jackson's capital plan, which is partially supported by $830 million voter-approved bond, includes renovations at every Jackson hospital, the opening of multiple urgent care centers across Miami-Dade County, a new Jackson West Medical Center campus in the City of Doral, and a new Christine E. Lynn Rehabilitation Hospital for The Miami Project to Cure Paralysis at UHealth/Jackson Memorial. Juan's primary responsibilities were program support, staff support, corporate oversight, and client service management.

Broward County Public Schools SMART Bond Program, Broward County, FL: Program Executive for the $800M SMART Bond Program for Broward Schools, the nation's sixth largest school district with over 270,000 students. Managed the program that includes the renovation of existing schools and support facilities, roofing projects, ADA improvements, technology upgrades, cutting-edge equipment, and infrastructure improvements.

School District of Palm Beach County Sales Tax Building Program, Palm Beach County, FL: Principal in Charge and Program Executive for the $1.2B Sales Tax Program for Palm Beach Schools, the nation's 10th largest school district with over 193,000 students. Managed the program that includes new construction projects, the renovation of existing schools and support facilities, technology upgrades, cutting-edge equipment, and infrastructure improvements.

JAMES (JIM) P. WILLE, CGC

SVP/Director of Construction; Program Manager

YEARS EXPERIENCE

40

EDUCATION

Civil Engineering coursework, University of Maryland

CERTIFICATIONS & REGISTRATIONS

Florida Certified General Contractor, CGC1509386

OSHA-30

PROFESSIONAL ASSOCIATIONS

Construction Management Association of America (CMAA)

Mr. Jim Wille is a seasoned construction executive with 40 years of experience overseeing large-scale commercial, institutional, and government infrastructure projects. He brings a proven track record of leading complex, high-value programs, ensuring seamless execution from planning through project completion. His expertise spans construction management, program oversight, budget and schedule control, contract negotiation, and stakeholder coordination, with a focus on delivering projects that meet the highest standards of quality, safety, and efficiency.

James has managed multibillion-dollar construction programs across aviation, healthcare, education, justice, and public assembly sectors. His leadership has been instrumental in the successful delivery of major infrastructure projects, including municipal upgrades, large-scale medical facilities, sports venues, and corporate headquarters. With a deep understanding of public-private partnerships and capital improvement programs, he excels in navigating regulatory requirements, risk management, and operational logistics to drive project success. His ability to lead diverse teams and foster strong client relationships has established him as a trusted industry leader in complex construction management and large-scale development initiatives.

Experience includes:

City of Doral Parks Program, Doral, FL: Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities for the City of Doral's Bond Program. Projects include:

- **Central Park of Doral:** A new 78-acre park in the heart of Doral featuring an aquatic center with a 50-meter Olympic-standard competition pool, diving platforms, a slide and a leisure area; an 80,000 SF community center, which will offer basketball courts that can convert into volleyball courts, gym with weightlifting area and cardio sections, meeting rooms, a cafe, demo kitchen, gaming areas and locker rooms; an amphitheater; skate park and pump track; new playgrounds; outdoor fitness stations; pavilions; scenic walking and jogging trails surrounded by lush greenery; beach volleyball, basketball and tennis courts; boardwalk; and approximately 1,000 parking spaces.
- **Doral Cultural Arts Center:** New $10M Cultural Center in Downtown Doral. This approximately 14,000 SF facility features a large art gallery space, visible from both inside and outside the building; a flexible multi-purpose room; outdoor courtyard; catering area; dedicated vehicular drop-off area; public restrooms; accessible rooftop plaza; additional multi-purpose greenspace; public art; and additional seating areas.
- **Doral Meadow Park:** The project included enclosing existing outdoor patio space to provide 800 SF of indoor recreation area with a new HVAC system. Additionally, the existing building renovation included a high-tech conference room, kitchenette, façade treatments, an indoor trophy case, modernized bathrooms and a multi-purpose outdoor plaza.
- **Doral White Course Park:** This new park includes a shaded playground, a waterfront event plaza, outdoor fitness stations, a multipurpose green space area, putting green, fenced-off dog area, picnic shelters, restrooms, and a parking lot. The park will have limited landscape lighting with general overhead and walkway lighting and security cameras. A new boardwalk connects this park to the Downtown Doral.

» **Morgan Levy Park**: This project involved the removal and replacement of existing flooring in multipurpose rooms, new millwork in multipurpose rooms and concession area, painting, expansion of office spaces for facility operations, and addition of a grease interceptor. Also included the addition of ADA accessible routes to the picnic areas, and transitioning to high efficiency LED fixtures in the parking area as well as adding and enhancing security cameras. The building foot print was increased by ±300 SF for the addition of a new staff break room and dedicated IT room.

Broward County, Central Broward Regional Park & Stadium Design-Build, Lauderhill, FL: Located at the intersection of US 441 & Sunrise Blvd., this project consisted of the design and construction of a $70M, 110-acre, multi-use sports complex featuring a 20,000-capacity stadium centered around a 167-yard (153-meter) circular grass field; the first International Cricket Council (ICC)-certified cricket pitch in the U.S. The park also includes soccer and football fields, basketball and tennis courts, netball, pickleball, water playgrounds, and a variety of recreational and special event amenities. Completion: 2007. Recipient of the ***National Association of County Park & Recreation Officials Class II Award for Park & Recreation Areas & Facilities***.

Miami-Dade County, Probate and Civil Courthouse, Miami, FL: Project Executive, managing the construction of a $262M, new 25-story, 47-courtroom facility, including judge's chambers, jury selection rooms and assembly areas, as well as a Law Library and full-service kitchen and cafeteria.

Jackson Health System, Jackson North Medical Facility, North Miami Beach, FL: Project Executive, managing the major renovation of an acute care center. Responsibilities began with the selection of the construction manager and the design team, and is continued through the construction of the project. Services included managing the schedule, budget and quality of the work as well as the approval process with local and state authorities. Renovation of the 1960s-era hospital included the cosmetic renovation of five (5) patient floors, the complete renovation of one (1) patient floor, and the complete renovation of the existing Emergency Department and Surgical Center. This $100M project also included the development of the 100-acre site into new streetscapes, parking areas, the improvement of existing intersections and the addition of a new surface parking lot.

Jackson Health System, Jackson West Medical Facility, Doral, FL: Project Executive, overseeing the design and construction of the Jackson West Medical Facility totaling $350M. The project included a new $310M, 100-bed acute-care hospital, new four-story $30M medical office building, and new 500-car parking garage, as well as a 27-acre park with new lakes, athletic fields, and walking paths.

Public Assembly/Recreational

» Broward County Cricket Stadium; Ft Lauderdale, FL; $60M
» Richmond Convention Center; Atlanta, GA; $125M
» Georgia World Congress Center IV; Atlanta, GA; $206M
» High Museum Expansion / Renovation; Atlanta, GA; $96M
» African American Cultural Center; Charlotte, NC; $25M
» Phoenix Civic Plaza; Phoenix, AZ; $458M

Education

» Kennedy King Community College; Chicago, IL, $100M
» New York State Council on the Arts (NYSCA); New York, NY $90M
» George Mason University Expansion and Parking; Fairfax, VA; $50M
» Howard University Law Library; Washington, D.C.; $18M
» Houston Independent School District; Houston, TX; $40M

Office Buildings

» Rockwell International Office Space & Parking Facility; Chantilly, VA; $60M
» Federal Reserve Bank of Atlanta; Birmingham, AL; $40M
» AT&T Headquarters Building and Parking Structure; Chantilly, VA; $30M
» Willow Wood Corporate Center; Fairfax, VA; $20M
» Wachovia South Metro Data Center; Atlanta, GA; $18M
» Duke Energy Corporate Headquarters; Charlotte, NC; $250M

Aviation

» Dallas/Fort Worth Airport TRIP Program; Dallas, TX; $1B
» Dallas/Fort Worth Infrastructure Program; Dallas, TX; $500M
» Dallas/Fort Worth Capital Improvement Program; Dallas, TX; $130M
» George Bush Intercontinental Airport Program; Houston, TX; $600M

Program Management

» SunTrust Disaster Recovery; South Eastern Region; $30M
» Fulton County Capital Improvements Program; Atlanta, GA; $700M
» Fulton County Library Program; Atlanta, GA; $300M

Eugene Collings-Bonfill, PE, PSM, PMP

Deputy Program Manager

Eugene Collings-Bonfill brings over 26 years of comprehensive experience in the engineering and construction industry, with expertise spanning surveying, engineering design, program and project management, and construction oversight. His career has been largely focused on municipal infrastructure, with a strong emphasis on parks and public spaces. Notably, Mr. Collings-Bonfill served as **Project Representative** for the City of Doral's Parks Bond Program, where he was responsible for the day-to-day planning, coordination, and execution of multiple park improvement projects under the bond initiative. In this role, he led the successful delivery of the majority of the City's bond-funded projects—many of which were completed ahead of schedule and under budget. His proven ability to manage complex, multi-stakeholder projects within a public agency framework makes him uniquely qualified to support the City of Fort Lauderdale's Parks Bond Program. He understands the importance of aligning project delivery with bond compliance, community expectations, and City objectives—ensuring transparency, fiscal responsibility, and timely execution across all phases of program implementation.

Education

BS Civil Engineering, University of Miami, 2011

MS Civil Engineering, University of Miami, 2013

MBA Florida International University, 2022

Professional Registrations

Professional Engineer (PE), FL, TX, GA, LA

Professional Surveyor and Mapper (PSM): FL

DBIA (D-3135) – Design Build Institute of America

PMP (#1620796) – Project Management Professional

Certified Floodplain Manager

Key Projects

Doral Cultural Arts Center, Project Duration: 300 Calendar Days, Project Construction, *Doral, FL*

The design and construction of Doral's first dedicated, cultural arts facility at Downtown Doral Park. The Doral Cultural Arts Pavilion will serve to celebrate the unique culture of Doral, as well as the variety of cultures, arts, and experiences embraced by the city's residents. At approximately 9,000 square feet, the Doral Cultural Arts Pavilion is envisioned to be the hub of cultural and performing arts in Doral and will be supported by satellite programming locations at both Doral Central Park and Doral Legacy Park. The Doral Cultural Arts Pavilion building will include multiple programmatic components such as:

- Large art gallery space visible from both inside and outside the building,
- A flexible multi-purpose room
- Multiple outdoor courtyards
- Catering area
- Dedicated vehicular drop-off area
- Public restrooms

Doral Meadow Park, *Doral, FL*

The provision of high-quality, flexible indoor recreation spaces across the city is very important to Doral Residents. Expanding the existing Doral Meadow Center, by enclosing the existing outdoor patio space, will provide residents with access to an additional 800 square feet of multi-purpose indoor recreation space. In addition, the renovation will include a high-tech conference room, kitchenette, façade treatments, green walls, and an indoor trophy case.

Morgan Levy Park, *Doral, FL*

Design and construction of building remodeling, 350 SF building addition which includes additional office space, new break room and storage rooms, concrete poles for security cameras, and grease trap for the kitchenette area.

White Course Park, *Doral, FL*

Design and construction of the currently undeveloped "White Course Park Parcel" within Downtown Doral South. This future park is located within one of the fastest growing residential areas of the city and will help meet the day-to-day recreation needs of those residents. The park includes a putting green, picnic shelters, seating areas, outdoor fitness areas, off-leash dog areas, and public restrooms.

DAVID HOOT, PE

Sr. Vice President; QA/QC Lead

YEARS EXPERIENCE

48

EDUCATION

BS, Civil Engineering, Environmental Engineering & Water Resources, Michigan Tech University, 1976

REGISTRATIONS & CERTIFICATIONS

Florida Professional Engineer #35970, 1985

Georgia Professional Engineer #13518, 1982

PROFESSIONAL AFFILIATIONS

American Management Association

American Water Works Association

American Water Resources Association

Ducks Unlimited, Wetland Conservation

Florida Engineering Society

Solid Waste Association of North America

Water Environment Federation

SPECIAL TRAINING

OSHA 40-Hour Hazmat/Health & Safety Training

OSHA 8-Hr. Hazmat Supervisor/ Mgmt. Training

Wetlands Identification & Permitting

Environmental & Wetlands Permitting

Solid & Hazardous Waste Mgmt. Short Course

Mr. David Hoot is a skilled professional with 48 years of experience. David has successfully functioned in many leadership and operational roles and has an extensive background in civil and environmental engineering. He has significant experience in project management and direction of civil/environmental engineering design and plan preparation involving neighborhood improvement; sustainability and resiliency; site development and pre-development services; roadway and transportation-related design; utilities and infrastructure improvements; water and wastewater transmission, collection and treatment systems; stormwater pipe/culvert design, environmental permitting and stormwater management; environmental impact studies and assessments; and CEI and construction management. David has directed, managed, designed, or provided quality control for various multi-disciplined water, wastewater, stormwater and water resource systems/projects throughout his career; and has provided professional/consulting services related to wastewater and stormwater system evaluation, technical support and design of various types and sizes of pump/lift stations and collection and FM systems, including reuse, and environmental restoration improvements and sustainability projects in the public and private sectors in Florida and the Southeast US.

Experience includes:

City of Miami Office of Capital Projects Program/Project Management Services Continuing Service Contract, Miami, FL: Senior Program Manager supporting the City with both Project and Program Management oversight and coordination, acting as agents of the City of Miami to assist with the undertaking of primarily Miami Forever Bond-funded projects, including roadways and right of ways, parks, municipal facilities, public facilities, public safety facilities, environmental, and sea-level rise, and flood prevention infrastructure projects, as well as other capital project as assigned by the City's Office of Capital Improvements (OCI). David is providing project management services for the following projects: I-395 Open Space & Mobility Connector; I-395 Underdeck/Miami-Overtown Heritage Trail Development; I-395 Baywalk Pedestrian & Bikeway Bridge; NW 17th Street from NW 27th Ave. to NW 32nd Ave. Roadway & Drainage Improvements; NW 17th Street from NW 32nd Ave. to NW 37th Ave. Roadway & Drainage Improvements; and the Dinner Key Marina Breakwaters Project.

MDWASD Engineering, Design and Related Services for the Local Pump Station Improvement Program, Miami-Dade County, FL: Technical Advisor & QA/QC for design of multiple sanitary sewer lift stations ranging from 20 HP to 60 HP and associated force mains. The challenges found in designing these upgrades relate to two items. First, meeting the FEMA Base Flood Elevation for some of these small locations while maintaining operations and maintenance protocols is a challenge. Under this contract, we have converted several wet well / dry well systems into submersible stations. These conversions are requiring significant structural design in order to reuse the existing facilities. This effort is more cost effective than installing a new wet well. Additionally, our team looks carefully at constructability in developing creative solutions that meet all of the client's needs while maximizing construction dollars. The engineering work includes pump stations PS-0673, PS-0132, PS-0659, PS-0063, PS-0348, PS-0318, PS-0464, PS-0475 and PS-0639.

MDWASD Program Oversight/Project Manager, Infiltration/Exfiltration/Inflow Improvement Program Management Services, Miami-Dade County, FL: Acted as a Project Manager and Lead Engineer for key program management objectives and components required to meet or exceed the FDEP Settlement Agreement and US EPA 1st and 2nd Consent Decrees related to the reduction in extraneous flows to the wastewater collection, pumping and treatment system throughout the entire county.

A GHD Associate

Michael Barnett PE, BC.CE

Permitting Lead

Experience

41 years

Qualifications/Accreditations

- ME, Coastal & Oceanographic Engineering, University of Florida, 1987
- BS, Ocean Engineering, Florida Institute of Technology, 1981
- Board-Certified Coastal Engineer, ASCE Civil Engineering Certification
- Registered Professional Engineer (Civil) in Alabama, Florida, Louisiana, Mississippi, and Texas

Key technical skills

- Beach and dune restoration design and permitting
- Living shoreline design
- Coastal armoring design and permitting – revetments, seawalls, groins

Memberships

- American Society of Civil Engineers
- Florida Shore & Beach Preservation Association
- Society of American Military Engineers, Mobile Post

Relevant experience summary

Mr. Barnett has over 41 years of experience in coastal engineering. He has led the feasibility, planning, engineering design, permitting and construction/contract document preparation for beach restoration and nourishment projects, seawalls, living shoreline and muck removal projects in the southeastern US. He has led offshore sand source investigations for restoration and nourishment projects in Florida and managed the construction of a mitigative artificial reef as an element of the Miami Harbor Deepening Project. Mr. Barnett served as the former Chief of the Florida Department of Environmental Protection's Bureau of Beaches and Coastal Systems for nearly eight years.

Project Experience

Dune Restoration Project

Project Director/Engineer of Record | Oneida General Mechanical Corporation | NS Mayport, Jacksonville, FL | 2023 – Ongoing |

Michael is Engineer of Record for the civil engineering elements and is also serving as Project Director for GHD services on an Oneida-led Design-Build Team (Continental Heavy Civil Corp (CHC) is the Contractor) for replacement of approximately 68,000 cubic yards of sand eroded by Hurricanes Ian and Nicole in 2022 from the 6,000 linear feet of Atlantic Ocean shoreline.

GHD geotechnical engineers investigated a Dredged Material Management Area on the base as the sediment source. GHD led the design and permitting, and produced conformed plans and specifications for project construction. Six dune walkovers destroyed by the storms will be replaced as part of the project. The permit was issued in late June 2024. Dune restoration was constructed between August and November 2024. Dune walkover construction and dune plantings will be completed in April 2025.

Mid-Town Seawall Replacement

Project Manager | Town of Palm Beach | Town of Palm Beach, FL | 2020 – Ongoing |

Michael is serving as Project Manager for this multidisciplinary data collection, planning, design, and permitting project associated with replacement of approximately 2,700 linear feet of aging seawall that protects South Ocean Boulevard and upland properties from storm impacts. The project area is along the managed and maintained Mid-Town Beach shore protection project.

The GHD Team conducted a coastal engineering assessment of the seawall, collected site-specific topographic survey data and acquired Standard Penetration Test borings to characterize the subsurface soil conditions. A combination of anchored and, in special consideration areas, cantilevered wall alignments were designed. The design plans and specifications were finalized and transmitted to the Town as Issued for Bid in May 2023 along with an Engineers' Opinion of Probable Construction Cost. A permit application was submitted to the Florida Department of Environmental Protection (FDEP) in summer 2022, and the permit was obtained in

T 678.280.2146 | **M** 251.300.1250 | **E** Michael.barnett@ghd.com **www.ghd.com**

Michael Barnett | Permitting Lead

December 2022. The GHD Team assisted the Town with bid phase services, which were postponed by the Town in July 2023. Construction is anticipated to commence in November 2026.

Miami-Dade County Coastal Erosion Hotspots: Modeling, Planning & Design Services

Senior Coastal Engineer |
Miami-Dade County RER-DERM | Miami-Dade County, FL |
2019 – 2020 |

The Miami-Dade County Division of Environmental Resources Management (DERM) retained GHD to provide coastal modeling, planning, permitting, and design services to identify and mitigate coastal erosion hotspots along 13 miles of the Miami-Dade County shoreline, which extends from FDEP reference monuments R-7 to R-74 and comprises beach shorelines extending from a northern boundary of Sunny Isles to the Government Cut north jetty. Michael provided quality assurance reviews of the shoreline modeling and evaluation, and assessments of permit feasibility of proposed modifications to the existing sediment management protocols currently being employed by the County and the US Army Corps of Engineers, Jacksonville District.

St. Johns County FEMA Berm

Project Director |
Continental Heavy Civil Corp. | St. Johns County, FL |
2021- 2023 |

Michael served as the Project Director and Engineer of Record for a Design-Build project to restore 20 miles of eroded dunes throughout St. Johns County that were impacted by Hurricanes Matthew and Irma. He led permitting coordination and application submittal to the Florida Department of Environmental Protection (FDEP) for the placement of approximately 750,000 cubic yards of truck-haul sand to be mechanically placed on the eroded dunes. Construction began in September 2021; sand placement and dune vegetation activities were completed in December 2022. Post-construction submittals were provided to FDEP in February 2023, with final project certfications submitted to the FDEP and St. Johns County in March 2023.

St. Johns County FEMA Berm Project

Project Director |
Continental Heavy Civil Corp. | St. Johns County, FL |
2021 – 2023 |

Michael served as the project director and engineer of record for a design-build project to restore 20 miles of eroded dunes throughout St. Johns County that were impacted by Hurricanes Matthew and Irma. He led permitting coordination and application submittal to FDEP for the placement of approximately 750,000 cubic yards of truck-haul sand mechanically placed on the eroded dunes. Construction began in September 2021; sand placement and dune vegetation activities were completed in December 2022. Post-construction submittals were provided to FDEP in February 2023, and the project was closed in March 2023.

Pillar Point Living Shoreline Project | West Trail Shoreline Stabilization

Coastal Engineer |
San Mateo County Harbor District | Pillar Point Harbor District, CA |
2018 – 2019 |

West Trail is a north-south oriented trail located along the western edge of Pillar Point Harbor (pedestrian and emergency vehicle access to the Mavericks surf break) that has been subject to erosion and emergency repairs since 1994. Michael provided final quality control and assurance verifications and sign-off on design methodology for providing shore protection to the trail as well as coordinating other design elements to protect infrastructure that is also subjected to erosional stresses along this shoreline segment. Project construction was recently completed.

Shoreline Erosion and Living Shoreline Stabilization Study

Coastal Engineer |
LG2 Environmental Solutions, Inc. | Marine Corps Air Station, Cherry Point, NC |
2017 – 2018 |

Michael served on the project team that conducted an inspection and assessment rating of eight existing bulkheads fronting the Neuse River along portions of the installation's 15,500 ft shoreline. A site visit to document and evaluate the potential for implementing living shoreline solutions along the entirety of the eroding shoreline was conducted; conceptual level design drawings and cost estimates to implement these solutions was undertaken, and an envision pre-assessment checklist to assist with planning of a cost-effective, resource-efficient and adaptable shoreline stabilization project was completed. Site work was conducted on the bulkheads in October 2017, and the remainder of the shoreline was assessed in July 2018. A final report was transmitted in September 2018.

JAVIER CABRERA MARINI

Vice President; Director of Program/Project Controls and Technology; Performance Analytics Lead

YEARS EXPERIENCE

31

EDUCATION

BS, Civil Engineering, Polytechnic University of Puerto Rico

PROJECT MANAGEMENT SYSTEMS

Primavera P6

Aconex

EcoSys

Procore

Power BI

eBuilder

Camunda BPM

TECHNICAL SKILLS

Green Belt

Lean/Agile

Data Analysis

Program & Construction Management

Earned Value Management

Estimating

Planning & Scheduling

Budget & Cost Control

Change & Risk Management

Baseline & Benchmarking process

Trending & Forecasting

Progress & Performance

Process Improvement

Business Analytics

Mr. Javier Cabrera Marini has 31 years of extensive experience as a Construction Manager, Project Controls Manager, and Project Manager, overseeing highly complex projects and programs across the Caribbean, Western Europe, Australia, and North America. With hands-on experience in infrastructure programs, green hydrogen and ammonia, deployment of EV charging stations, telecommunications, mining, pharmaceutical, industrial, and residential projects, Javier excels in driving successful project outcomes. Throughout his career, Javier's unwavering dedication to project controls has proven instrumental in enabling clients to achieve on-time and within-budget project completions. Over the past three decades, he has meticulously honed his skills, actively engaging in all aspects, including estimating, planning, scheduling, cost control, change management, risk management, earned value management, and data analysis. During his tenure as head of the Project Controls Department, he actively pursued the maximization of technology and process improvement. He delved into Lean Six Sigma/Green belt training, gaining a fresh perspective on optimizing program management processes. He is unwavering in his commitment to utilizing Project Management Information Systems (PMIS) to provide substantial benefits to our clients by simplifying and streamlining project data to offer a single source of truth for decision-making. His adept presentation of project data has garnered praise from clients, who value its utility in facilitating informed decisions and averting unexpected issues.

Experience includes:

Miami Dade College, Program Management Services: Infrastructure Asset Data Mining & Analysis: Task Manager. Provided comprehensive program management and project controls support as part of a campus-wide infrastructure initiative focused on capital planning and funding readiness. Conducted in-depth data mining and document review for over 100 completed capital improvement projects, extracting and analyzing scope, schedule, and cost data to validate and update the College's critical infrastructure asset database. Reviewed construction documents, contractor pay applications, schedules of values, and closeout records to align completed work with the College's critical infrastructure priorities. Reconstructed historical project timelines and cost summaries to support life cycle planning and inform future budgeting decisions. Produced reconciled data sets and executive-level reporting tools that enhanced the College's ability to justify funding requests for operational and maintenance activities. This work was instrumental in creating a reliable baseline of project performance, ensuring transparency and accuracy in the College's capital planning process.

Black & Veatch, Overland Park, Kansas: Project Controls Department Head tasked with establishing a project controls department from scratch. Embraced the use of lean/agile techniques, demonstrating that combining them with conventional project controls principles led to success. Developed and integrated the use of business analytics for program management, implemented logic-driven schedules (CPM), and integrated Earned Value with Lean practices for project controls. As a Subject Matter Expert (SME), supported the following programs: the initial Tesla Charging Station Network for the Model S, the first Google Fiber Market in Kansas City, Sprint Network Vision, AT&T Turf, and the Kentucky Information Highway, among others.

Project Ghea, British Petroleum, Europe (United Kingdom, Germany, Netherlands, and Spain): As the Business Manager, led the implementation of Procore (PMIS), which was used to consolidate all project data, including cost control, change management, document controls, approval workflows, requests for information, and field inspections for a highly complex program for deploying Electric Vehicle Charging Station sites across Germany, Netherlands, Spain, and the United Kingdom. The program involved assessing existing fuel court locations, designing and installing charging capability, including new electrical tie-ins to existing communication systems at over one thousand sites across Europe.

RIB U.S.COST

Russell McElreath, CCP
Cost Estimating Project Manager

Summary of Qualifications

Russell has over 23 years of experience providing cost estimating services. Along with overseeing day-to-day activities of the estimating staff in a branch office, Russell is also an acting Project Manager and a Senior Cost Estimator.

Russell has directed and prepared cost estimates for new, existing, and special type facilities including hospitals, clinics, laboratories, various higher education buildings, public safety facilities, dormitories, libraries, K-12 schools, parking / garage structures, courthouses, airports, hangars, office buildings, warehouses, hardened structures, maintenance shops, and other facility types.

Specifically for Florida projects, Russell has been the Cost Estimating Project Manager along with Senior Cost Estimator and QAQC Specialist for our Florida park projects for 15+ years. He is expert in the specialized aspects to consider when pricing for items that are unique to Florida weather.

Education

- BS, Construction Management
- Trained - Success Estimator, MII, PACES

Certification

- Certified Cost Professional (CCP), #2950

Sample Experience

Jacksonville Riverfront Plaza Design, Jacksonville, FL. Multi-phase cost estimating for the redevelopment of the existing Riverfront Landings with a new café / beer garden pavilion and restroom. The café will have a landscaped roof providing pedestrian access with a large, landscaped greenspace with multiple view / relaxation areas. $43M.

Optimist Park Redevelopment, Miami Lakes, FL. Cost estimating services for this Redevelopment, which included a new 5,000SF multi-purpose building with concessions and restrooms, five (5) baseball fields (375,788SF total), a 8,510SF Airnasium, new basketball courts, expansion of an existing parking lot, new landscaping and many site improvements including trails, walkways, fencing exercise stations, benches and more. $17.4M.

Doral Central Park Amphitheater, Doral, FL. Order of Magnitude cost estimate for the open-air, covered project including restroom/storage facilities and green space. Included three separate Conceptual Designs/Costs ranging from $5.7 to $7.6M.

Truman Waterfront Upland Improvement, Key West, FL. Cost Estimating & Master Plan Program Cost Estimates in support of the development of a portion of surplus Navy property known as the Truman Waterfront Upland Parcels, located in Key West, Florida. Features include 23 acres of developed waterfront property for mixed use, retail, parks, and a cruise port. Included services were performed for landscape, sub-surface / infrastructure, utility design; roads and pedestrian access; ecological and environmental; amphitheaters / event plazas; waterfront design; alternative supplemental energy sources, and recreation / historic areas.

Matheson Hammock Park West Nature Trail & Parking, City of Coral Gables, FL. SD and 100% design phase cost estimating services for a new boardwalk, parking and nature trail rehabilitation including landscaping and interpretive signage. Owner: Miami-Dade Parks.

Kester Park Baseball Renovation, Pompano Beach, FL. 30% and 60% cost estimating services for the renovation of two existing baseball diamonds including new fencing, dugouts, sodding and drainage, irrigation, LED fixtures, field lighting poles and modifications to existing walkways. 195,460SF. $1.8M.

Additional Projects

- Sullivan Park Expansion, City of Deerfield Beach FL
- CW Thomas Park Redevelopment, City of Dania Beach FL
- Downtown Doral Triangle Cultural Arts Center and Park, Doral, FL
- City of Doral Central Park Amphitheater
- City of Miami Springs Aquatic Facility
- City of Miami Springs Senior Center

RIB U.S.COST

Leigh Shaw, CCP, LEED AP BD+C, VMA

Lead Cost Estimator

Summary of Qualifications

Leigh Shaw has 18 years of experience providing construction cost control services. She is currently a Project Manager and Senior Cost Estimator with RIB U.S.COST where she performs cost estimating along with QA/QC specifically for our South Florida projects.

Leigh is also responsible for the preparation of detailed quantity take-offs; labor, material, and equipment pricing; and summarizing cost estimates for projects of all types. She serves various clients in a broad range of industry, namely in aviation, healthcare, military, civic, and government.

Specifically for Florida projects, Leigh has worked alongside our Cost Estimating Project Manager for our Florida park projects since she joined the firm over 5 years ago. She has participated on teams for over 20 Florida park projects and within the last three years, has been the Project Manager and Lead Cost Estimator on several of those.

Sample Experience

Optimist Park Redevelopment, Miami Lakes, FL. Cost estimating services for this Redevelopment which included a new 5,000SF multi-purpose building with concessions and restrooms, five (5) baseball fields (375,788SF total), 8,510SF Airnasium, new basketball courts, expansion of an existing parking lot, new landscaping and many site improvements including trails, walkways, fencing exercise stations, benches and more. $17.4M.

Charles Deering Estate, Palmetto Bay, FL. Multi-phase cost estimating for the Charles Deering Estate Stone House Repair and Renovations project includes a full restoration of all interior and exterior architectural and structural elements, re-roofing and repair of all doors, windows, shutters and screens; new AC unit on the third floor. Repairs for plumbing, HVAC, and electrical systems are also included. Owner: Miami-Dade Parks, Recreation & Open Spaces. 14,200SF. $2.5M.

West Matheson Hammock Nursery / Dade-County Nursery, Miami, FL. Multi-phase cost estimating for a full restoration of all interior and exterior architectural and structural elements of the Head House and Slat Shed. Included the rebuilding of the Head House walls and roof structure; complete new interior architecture interior construction and finishes; new plumbing, HVAC, and electrical systems. The Slat Shed structure was completely rebuilt to include new slat wall and roof enclosure. A new rotunda was added in the center of the Slat Shed area. Owner: Miami-Dade Parks, Recreation & Open Spaces. 5,580SF. $4M.

West End Park Improvements, City of Miami, FL. SD, DD, 50% design phase cost estimating services. Independent cost estimating services for the new 6.7-acre public park / additional park improvements including community center, FPL solar trees, shade canopies, playground area, tennis courts, basketball courts, pool, splash pad, walking trails, exercise stations, little league fields, aquatic center building, new aquatic pool facility. $12.4M.

Maurice Gibb Memorial Park – Shoreline Stabilization, Miami Beach FL. Cost estimating services for 400LF of bulkhead including demolition of existing, modifications and new sheet piles and concrete caps. Shoreline Stabilization cost TBD.

Education

- MS, Construction Management
- BS, Building Science
- Trained - Success Estimator, MII, PACES, CostOS

Certification

- Certified Cost Professional (CCP), #04949
- Value Management Associate, SAVE
- LEED AP Building Design + Construction, 9/1/2010

Additional Projects

- Broward County Parks & Rec, Everglades Holiday Park - Water Main Extension *(In Progress)*
- Ives Estates Park Improvements, Miami
- Miami-Dade College, Owner's Representative Program Controls Support, Miami
- South Dade Transit Operations Center, Miami Dade Department of Transit, Homestead, FL
- Hollywood Streetscapes, Undergrounding of Overhead Utilities & Streetscape Beautification, City of Hollywood

KEVIN PAYNE, PSP, CCM

Scheduling

YEARS EXPERIENCE

20+

EDUCATION

MS, Project Management, University of Maryland

Graduate Certificate, Project Management, University of Maryland

MBA, University of Maryland, College Park

BS, Civil Engineering, Old Dominion University

SKILLS

Critical Path Method (CPM) Scheduling

Project & Program Scheduling

Construction Claims Analysis

Time Impact Analysis (TIA)

Earned Value Management (EVM)

Resource & Cost Loading

Risk Mitigation & Delay Analysis

Primavera P6

Microsoft Project

Construction Project Controls

Stakeholder Communication & Reporting

Mr. Kevin Payne is a veteran project scheduler with more than two decades of experience leading the scheduling function within complex project controls environments. Specializing in critical path method (CPM) scheduling, time impact analysis, and earned value methodologies, Kevin has developed and maintained integrated schedules for over 75 major construction projects across the transportation, aviation, education, and government sectors. He is highly proficient in Primavera P6 and Microsoft Project, with a strong track record of resolving schedule conflicts, supporting claims analysis, and leading recovery efforts to keep projects aligned with budget and delivery goals. Kevin's ability to translate technical scheduling data into clear insights for stakeholders has made him a trusted resource for optimizing schedule performance and enhancing project predictability.

Experience includes:

Kentland Community Center, Maryland-National Capital Park and Planning Commission, Prince George's County, MD: As Scheduler, managed scheduling and claims services for the construction of a 38,800 SF single-story community center for MNCPPC. Oversaw project timelines for facilities including a gymnasium, teen center, fitness center, computer lab, meeting rooms, media room, offices, and a large reception area. Coordinated scheduling for outdoor amenities such as basketball courts and a wedding garden. Supported the integration of sustainable features, including a vegetated roof and photovoltaic energy equipment.

City of Philadelphia Rebuild Program Management, Philadelphia, PA: As Scheduler, provided program management services for the City of Philadelphia's $500 million initiative to revitalize over 150 parks, playgrounds, recreation centers, and libraries. Partnered with non-profit organizations to support community-focused redevelopment efforts. Maintained and reported on the overall program schedule, ensuring timely project execution.

Towson University Student Union Addition and Renovation, Baltimore, MD: As Scheduler, managed project control services for the renovation and expansion of an 85,000 SF student center, overseeing project estimating, budget control, cost management, reporting, and risk analysis. The project involved a complete renovation of the existing facility, along with the addition of an expanded event center, upgraded dining and student group spaces, and a more open, modern interior. Additionally, new main entrances were constructed to seamlessly connect the renovated plazas on the north and south sides of the building, enhancing accessibility and functionality.

Community College of Philadelphia Library/Learning Commons Renovation, Philadelphia, PA: As Scheduler, led project scheduling efforts for a $13.5 million, 64,000 SF renovation, transforming an outdated library into a state-of-the-art learning center designed to serve a student population of 14,000. Located within the historic Mint Building and adjacent Bonnell Building, the Learning Center was developed to meet evolving educational demands by creating a centralized student destination. The project realigned key academic resources, including the Library, Learning Laboratories, Faculty Center for Teaching, and Tutoring Spaces, while incorporating 102 workstations and enhancing both interior and exterior spaces such as courtyards, a café, and collaborative learning areas. Managed and maintained an integrated construction schedule, coordinating input from four multiple prime contractors to ensure seamless project execution.

YVONNE GARTH

PRESIDENT & CEO

Garth Solutions
Thinking beyond the box

YEARS IN INDUSTRY

33 YEARS

YEARS WITH GSI

23 YEARS

EDUCATION

B.S., JOURNALISM & MARKETING
University of Maryland (1992)

WHY YVONNE?

VETERAN LEADERSHIP
30+ years of experience leading programs for high-profile clients.

CAMPAIGN EXECUTION
Proven track record in grassroots and digital campaigns that drive awareness and stakeholder support.

STRATEGIC NETWORK
Deep relationships with decision-makers across Florida municipalities and business sectors.

ENGAGEMENT INNOVATION
Develops creative strategies that translate complex projects into clear community narratives.

PUBLIC INSIGHT
Former Commissioner and Vice Mayor of Miramar with deep knowledge of public sector operations and needs.

PROFESSIONAL BIO

Yvonne Garth, President & CEO of Garth Solutions, Inc. (GSI), brings 30+ years of strategic leadership in public relations, marketing, and communications to complex, high-profile projects throughout South Florida and beyond. Since founding GSI in 2003, Yvonne has established the firm as a trusted partner for public and private sector clients dedicated to engaging diverse stakeholders in transformative initiatives. Under her leadership, GSI has successfully executed comprehensive outreach and communication campaigns for prominent organizations that include Broward County Public Schools, Broward County Aviation Department, and nearly all municipalities across Broward.

Yvonne's expertise spans stakeholder engagement, brand development, targeted messaging, media relations, and more. Her background includes nearly a decade as an Advertising and Public Relations Executive at a top-tier agency, where she directed strategic campaigns for global brands, laying a strong foundation for GSI's innovative approach to public sector communications.

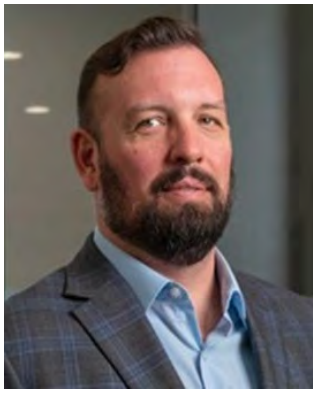
Renowned for her ability to leverage deep community relationships, Yvonne consistently facilitates strategic partnerships and collaborations that deliver measurable results. Her commitment to public service and community engagement is exemplified by her previous roles as Commissioner and Vice Mayor for the City of Miramar, as well as Chair and Board Member for the Broward County Small Business Advisory Board, and Board Member of the Miramar Cultural Arts Trust. This blend of local insight and firsthand industry insight positions GSI as a premier communications firm adept at navigating complex, multi-stakeholder environments.

RELEVANT EXPERIENCE

- Broward County Public Schools, SMART Bond Program | Fort Lauderdale, FL
- City of Hollywood New Police Headquarters | Hollywood, FL
- City of Fort Lauderdale Pompey Park | Miami Gardens, FL
- City of Fort Lauderdale Las Olas Streetscape Study | Fort Lauderdale, FL
- City of Opa-Locka Parks Master Plan | Opa-Locka, FL
- FLL Airport New Runway and T4 Expansion | Fort Lauderdale, FL
- Las Olas Beach Park Project | Fort Lauderdale, FL
- Sole Mia Local Preference Office, | North Miami, FL
- Town of Davie Water Resiliency Assessment | Davie, FL

SKILLS & EXPERTISE

- TEAM LEADERSHIP
- COMMUNICATION STRATEGY
- STRATEGIC PARTNERSHIPS
- PROGRAM MANAGEMENT
- COMMUNITY OUTREACH
- STAKEHOLDER ENGAGEMENT
- EVENT MANAGEMENT
- MEETING FACILITATION



BRENT CAMPBELL

ACCOUNT MANAGER

Garth Solutions
Thinking beyond the box

YEARS IN INDUSTRY

20 YEARS

YEARS WITH GSI

1 YEAR

EDUCATION

B.A., MARKETING;
MINOR IN ADVERTISING

University of South Carolina (2003)

WHY BRENT?

TWO-SIDED TALENT

Dually skilled in effective client management and digital marketing strategy.

RESOURCE EFFICIENCY

Delivers campaigns that maximize value while meeting project goals.

GROWTH STRATEGIST

Executes plans that drive year-over-year growth and measurable ROI.

INFLUENCER SAVVY

Leverages influencer partnerships and content creation to elevate brand visibility.

DATA-DRIVEN MARKETER

Uses research and analytics to continuously refine and optimize marketing performance.

PROFESSIONAL BIO

Brent Campbell is a seasoned marketing and communications leader with two decades of experience crafting and executing strategies that drive growth, enhance brand visibility, and foster meaningful stakeholder relationships. As Associate Account Director and Innovation Lead at Garth Solutions, Inc. (GSI), Brent directs comprehensive public outreach campaigns, guides creative execution, and ensures that all initiatives are closely aligned with client objectives and business goals.

Brent excels at mentoring teams and cultivating strong client relationships built on trust and impactful communication. He has successfully led numerous high-profile projects, notably spearheading marketing and public relations efforts for the Naples Airport Authority. His role involved strategic planning, coordination of media relations, stakeholder engagement, and high-impact event management. His innovative approach to public sector communications has repeatedly resulted in increased project efficiency, timely campaign delivery, and significant growth for the organizations he serves.

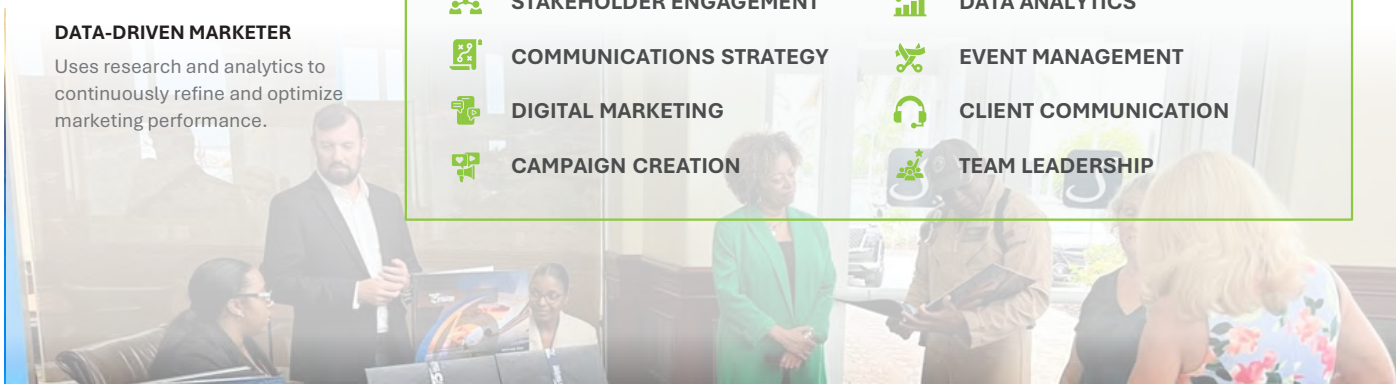
Brent's expertise in strategy, digital marketing, stakeholder engagement, and data analytics positions him as an invaluable asset to any team aiming for excellence and measurable results in their communications initiatives.

RELEVANT EXPERIENCE

- Boca Raton Airport Authority, Marketing & Public Relations | Boca Raton, FL
- Broward County Net Zero | Broward County, FL
- Broward County Aviation On-Call Project | Fort Lauderdale, FL
- Broward County Public Schools Bond Program | Broward County, FL
- City of Fort Lauderdale Force Main Rehab and Replacement | Fort Lauderdale, FL
- City of Hollywood New Police Headquarters | Hollywood, FL
- City of Hollywood Beach Heights & Beverly Park Sidewalk Improvements | Hollywood, FL
- Cooper City Social Media, Website, and Graphic Design Services | Cooper City, FL
- Naples Airport Authority, Marketing & Public Relations | Naples, FL
- Town of Davie Water Resiliency Assessment | Davie, FL

SKILLS & EXPERTISE

- STAKEHOLDER ENGAGEMENT
- DATA ANALYTICS
- COMMUNICATIONS STRATEGY
- EVENT MANAGEMENT
- DIGITAL MARKETING
- CLIENT COMMUNICATION
- CAMPAIGN CREATION
- TEAM LEADERSHIP



DENIECE WILLIAMS

DIRECTOR OF PUBLIC AFFAIRS

Garth Solutions
Thinking beyond the box

YEARS IN INDUSTRY

22 YEARS

YEARS WITH GSI

8 YEARS

EDUCATION

B.A., INTERNATIONAL BUSINESS
Florida International University (2006)

A.A., BUSINESS ADMINISTRATION
Miami-Dade College (2004)

WHY DENIECE?

COMMUNITY BUILDER
Cultivates strong partnerships that expand visibility and deepen impact.

MEDIA STRATEGIST
Designs and leads campaigns that resonate with audiences and deliver results.

EVENT COORDINATOR
Executes large-scale public events that boost project exposure and stakeholder engagement.

TRUSTED LEADERSHIP
Leads complex outreach efforts with clarity, consistency, and strategic direction across sectors.

PR EXPERTISE
Brings 22 years of experience in media relations and grassroots communications.

PROFESSIONAL BIO

Deniece Williams, Director of Public Affairs at Garth Solutions, Inc. (GSI), brings 20+ years of experience in strategic communications, account management, project oversight, and stakeholder engagement. Her expertise spans local, national, and global projects, where she consistently delivers high-impact strategies that enhance client visibility and community engagement. Known for her ability to cultivate strong partnerships and relationships, Deniece is skilled at aligning communication efforts with client objectives, ensuring that each initiative effectively resonates with its target audience.

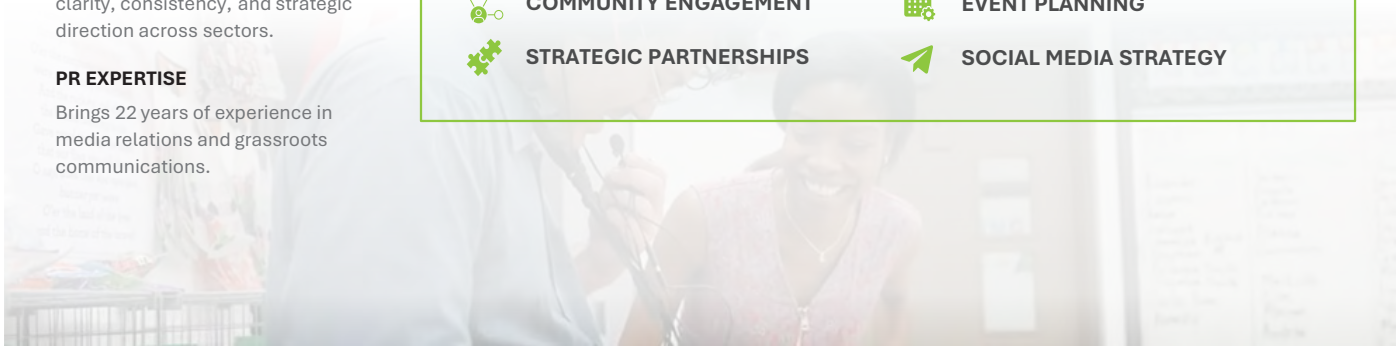
In her leadership role at GSI, Deniece orchestrates comprehensive outreach initiatives and strategic campaigns, leveraging her insight to connect with diverse communities and stakeholders. Her experience includes managing significant aspects of the $1.65 billion Broward County Public Schools SMART Bond Program, where she effectively presented updates, gathered community feedback, and promoted awareness throughout the county. With a commitment to tailored communication and strategic outreach, Deniece plays a key role in GSI's mission to build lasting client relationships and meaningful public engagement across multiple sectors.

RELEVANT EXPERIENCE

- Broward County Public Schools Bond Program | Fort Lauderdale, FL
- City of Hallandale Beach Community Benefit Program | Hallandale, FL
- City of Hollywood Beach Heights & Beverly Park Sidewalk Improvements | Hollywood, FL
- FLL Part 150 Noise Compatibility Planning Study | Fort Lauderdale, FL
- Las Olas Beach Park Project | Fort Lauderdale, FL
- Miami-Dade Public Schools, Employee Benefit Consulting | Miami, FL
- Miami-Dade Public Schools, ESSER Attendance Outreach Campaign | Miami, FL
- Sole Mia Local Preference Office, | North Miami, FL

SKILLS & EXPERTISE

- MEDIA RELATIONS
- GRASSROOTS OUTREACH
- COMMUNITY ENGAGEMENT
- STRATEGIC PARTNERSHIPS
- CHARRETTE PLANNING
- VENDOR COORDINATION
- EVENT PLANNING
- SOCIAL MEDIA STRATEGY



BEVERLY SANTICOLA

500 Academy Place, Sewickley, PA 15143
Cell 281-224-1443 • E-Mail: bevsanticola@outlook.com
www.centerforruraloutreach.org

Major Accomplishments

- Trained more than 6,000 individuals from nonprofits, government agencies and Native organizations since 2001
- Built a team of grant writing associates that have won more than ONE BILLION in grants in 20 years
- Co-produced 3 Telly Award winning Native American documentaries in partnership with the UMUT and Filmworks Pacific
- Co-produced 5 Anthem Award winning Native American publications with Nelson Design and Anthony Two Moons
- Co-designed 1 Webby Award winning website in partnership with the UMUT, Anthony Two Moons and Silo Designs
- Imagined and co-created a Native National Partnership Retreat that generated $140M for UMUT between 2015-2022
- Selected as 2010 and 2014 Purpose Prize Fellow by Encore.org, Atlantic Philanthropies, & John Templeton Foundation
- Served as a federal grants' reviewer for US Department of Health and Human Services
- Trained/presented for numerous federal agencies including USDOT, Homeland Security, HHS, DOL, ED, etc.

Experience

Santicola & Company 2001 - Current

Beverly Santicola is President of Santicola & Company, a woman owned S Corporation that was founded in 2001. Beverly turned an agricultural childhood and lifetime of work experiences into a purpose driven mission to grow a new generation of leaders for the future of America. She is an award-winning film producer, social entrepreneur, idea generator, problem solver, program developer, project facilitator, public speaker, and grant writing consultant. Over the past ten years Santicola has dedicated her expertise and energy in the arenas of community development, language and cultural preservation, intergenerational leadership, and collaborative partnership building for the Ute Mountain Ute Tribe. Working with a team of professional grant writers for 25 years that have generated more than $1 BILLION in grant funding for clients, she has been nationally recognized for social innovation and leadership excellence by the US Department of Interior, Bureau of Indian Affairs in connection with the Tiwahe Initiative, as well as Encore.org as a 2010 and 2014 Purpose Prize Fellow sponsored by the Atlantic Philanthropies and John Templeton Foundation. https://encore.org/purpose-prize/beverly-santicola-2/ In her role as Grants Consultant, Santicola also provides facilitation services for multiple grant funded programs communicating regularly with federal government officials to assure systemic integration and the implementation of coordinated service delivery systems. Since 2001, Beverly Santicola has trained more than 6,000 staff and volunteers from nonprofit organizations throughout United States and Puerto Rico, including government agencies, national associations, educational institutions, health care providers, churches, faith-based organizations, other nonprofits, and Native American Tribes. Over the past twenty years, Santicola has provided training for organizations such as the US Department of Health & Human Services; US Department of Interior-Bureau of Indian Affairs; White House Office of National Drug Control Policy – High Impact Drug Trafficking Areas; US Department of Defense-Western Region Counterdrug Training Center; Cisco; Westcon Group; Gridless; Springfield City Schools; Native American Development Corporation; County of Kaua'i; National Tropical Botanical Gardens; Texoma Council of Governments; Wayland Baptist University; Bank One and Chicago Public Schools. Santicola has led several projects that won national awards for excellence, including AFL-CIO National Labor Management Award, the Work in America – Search for Excellence Award, the Best Practices Award from the US Department of Education and Labor, the Governor's Award for Team Excellence, and 2010 and 2014 Purpose Prize Fellowship.

Education

International Business College - 1967-1969

Received a diploma in General Business from the college located in Fort Wayne, Indiana

Contact

7137243926 (Mobile)
mhsanticola@outlook.com

www.linkedin.com/in/marc-santicola-221092107 (LinkedIn)

Education

University of Pittsburgh Katz Graduate School of Business
Master of Business Administration - MBA, Finance · (1977 - 1979)

University of Pittsburgh
Bachelor's degree, Economics · (1972 - 1976)

Marc Santicola

Business Consultant at SANTICOLA & COMPANY

Experience

SANTICOLA & COMPANY
Business Consultant
July 2019 - Present (5 years 4 months)
Pittsburgh, PA

Cameron, a Schlumberger company
34 years

Hub Accounting Controller
June 2016 - July 2019 (3 years 2 months)
Houston, Texas Area

Responsible for the start-up & leadership of the Cameron Plant Accounting Hub. Built team of 25 employees with primary responsibility for centralizing manufacturing accounting activity throughout the Western Hemisphere. Successfully led global annual project to update cost on 2.1 million material master records across 180 domestic & international plants in SAP.

Director of Finance
February 2012 - June 2016 (4 years 5 months)
Houston, Texas Area

Led team responsible for remediation of accounting internal control deficiencies in the Process Systems Division, developed and oversaw the cash settlement process from the divestiture of the Cameron Reciprocating Products Group to General Electric and led the plant inventory transformation project in the Cameron Valve & Measurement Group.

Enterprise Specialist
April 2010 - February 2012 (1 year 11 months)
Houston, Texas Area

Member of IT project charged with redesign, testing and re-implementation of SAP. Created new CO master data design, G/L mapping conversion and enterprise reporting structures. Developed and delivered training for the initial rollout and subsequent support following conversion from legacy SAP.

Director of Financial Planning
January 2004 - April 2010 (6 years 4 months)

Houston, Texas Area

Led Finance planning team for the Compression Systems Division with revenues of $600 million. Worked directly with the President and all VP's to develop strategic plans, the annual budget, quarterly and monthly forecasts with accompanying Corporate presentations. Led the conversion from direct to full absorption costing, the first division in Cameron to successfully undertake this reporting transition.

Director Of Accounting
January 2001 - January 2004 (3 years 1 month)
Houston, Texas Area

Oversaw the successful conversion of four legacy accounting systems to SAP for the Compression Systems Division. Responsibilities included data clean-up, system design, testing, conversion and post go-live stabilization efforts.

Controller
January 1997 - January 2001 (4 years 1 month)
Springfield, Ohio

Ajax-Superior Division controller with responsibilities for major plants in Springfield, OH; Mount Vernon, OH; Oklahoma City and Grove City, PA. Revenues of $150 million. Led restructure initiatives to consolidate manufacturing facilities.

Controller
January 1992 - January 1997 (5 years 1 month)
Mount Vernon, Ohio

Rotating Products Division controller with responsibilities for major plants in Mount Vernon, OH; Liverpool, UK; Hengelo, NL and Maracaibo, VZ. Revenues of $300 million. Most revenue involved large projects requiring coordination with joint venture partner Rolls Royce.

Cost Accounting & Budgeting Manager
August 1985 - January 1992 (6 years 6 months)
Mount Vernon, Ohio

Responsible for cost accounting & forecasting activities in the Rotating Products Mount Vernon plants with oversight of international locations.

Smith International
Accounting Supervisor & Cost Accountant
May 1981 - August 1985 (4 years 4 months)
Temple, Texas and Houston, Texas Area

Amanda L. Shepler
Grant Professional

475 Niagara Street, Tonawanda, NY 14150
Phone: 716.866.4135 Email: amandashepler@rocketmail.com

Grant Writing Experience:

More than seventeen years of professional experience working full-time with a wide variety of clients:

- School Districts (urban, rural, suburban)
- Institutes of Higher Education
- Hospital Systems
- Community-Based Agencies
- Municipalities
- Tribal Governments
- Arts / Education Agencies
- Mentoring / Youth Service Agencies
- Business Ventures and Start-Ups
- Behavioral Health Services
- Charter Schools
- Museums / Planetariums

Selected List of Awarded Proposals 2014 – 2022:

- ☑ HRSA Rural Community Opioid Response Program - $7,800,000
- ☑ Assistance to Firefighters Grant Program - $2,900,000
- ☑ Distance Learning / Telemedicine Grant Program - $6,800,500
- ☑ CDC Drug Free Communities - $1,250,000
- ☑ Native American Career and Technical Education Program - $2,755,000
- ☑ ANA Community Economic Development Projects - $2,600,000
- ☑ ANA Social Economic Development Projects - $3,300,000
- ☑ School Leadership Program - $3,323,599
- ☑ USDA Farm to School - $1,400,000
- ☑ New Mexico Youth Conservation Corps - $810,000
- ☑ Investing In Innovation Fund - $3,262,113
- ☑ California Charter School Dissemination Grant - $1,021,000
- ☑ Integration of Schools and Mental Health Systems - $1,588,000
- ☑ 21st Century Community Learning Centers - $15,065,760
- ☑ Elementary and Secondary School Counseling Programs - $2,500,000
- ☑ DOE Assistance for Arts Education Program - $2,504,000
- ☑ DOE Innovative Approaches to Literacy - $3,520,000
- ☑ DOE Native American Children in Schools Program - $6,020,000
- ☑ DOE Advanced Placement Incentive - $1,899,000
- ☑ Project Prevent - $2,924,487
- ☑ Demonstration Grants for Indian Children and Youth Program - $10,700,000
- ☑ Suicide Prevention Services - $3,850,000
- ☑ IHS Substance Abuse Prevention / Suicide Prevention, Intervention and Postvention - $4,000,000
- ☑ Native Education - $1,450,000
- ☑ HHS Mental Health Awareness Grants - $5,000,000

More than $185,000,000 secured in grant monies since 2008

Education:

- **Master's Degree in History:** Buffalo State College, May 2006
- **Bachelor of Science in Social Studies Education 5-12:** Buffalo State College, May 2003

Other Experience:

- Substitute Teacher: September 2003 – May 2005
- Program Coordinator – Boys & Girls Clubs of the Northtowns: 1997 – 2005
- Member of the Kiwanis of the Tonawandas – Elected President 2010 - 2011
- Member of the Board of Directors of the Boys & Girls Clubs of the Northtowns 2009 - 2011

Hollie Janson Schmidt

Planning Lead

Hollie Janson Schmidt is a Principal, a National Director for the premier Advisory Solutions - Planning Practice and a liaison to Jacobs Corporate for Sustainability, Resilience & Climate Response for the Americas. She manages consulting and advisory services to a wide range of clientele across the Federal, State, Local, Environmental, Buildings & Infrastructure and other markets at Jacobs. She leads an impressive group of consulting and planning practitioners that focus on the Federal & Environmental portfolio and serves as a portal into Jacobs' vast technical services for logical, defendable, fundable, sustainable and resilient solutions. Hollie has experience in program management, parks and recreation planning and programming, trails and multi-use path planning, community hubs and resilience initiatives, stakeholder facilitation and she has led inter-disciplinary teams that deliver strong and efficient solutions across the natural and man-made environments.

Key skills | Areas of expertise

- Confident team leadership that results in solutions for demanding challenges in high-stress environments
- Competency for strategic thinking, problem solving and collaboration
- Firm embracement of thought-leadership and flexible approaches
- Passion for tackling complex problems through listening and taking decisive action
- Diverse experience across all market types with a history with federal, state, county and municipal governments
- Comprehensive understanding of the built environment
- Successful stakeholder engagement with challenging personalities
- Strong history of managing multi-disciplinary teams

Education | Qualifications

- Bachelor of Landscape Architecture (BLA), 1995, University of Illinois Urbana-Champaign

Memberships | Affiliations

- American Planning Association (APA), Urban Land Institute (ULI), American Society of Landscape Architects (ASLA), Society for College and University Planning (SCUP), Society for American Military Engineers (SAME), Southeast and Caribbean Disaster Resilience Partnership (Advisory Board Member)

Employment history

- Spaid Associates, 1995-2000
- Jacobs, 2000- Present

Relevant project experience

Tyndall Air Force Base Rebuild – Core Leadership Team Member for the rebuild of Tyndall Air Force Base After Hurricane Michael in 2018. She led all the disciplines across the natural and built environment to develop the pre-design guidance which included coastal resilience, Morale Welfare and Recreation (MWR) systems and amenities, complete streets, pedestrian mobility, community amenities and open space planning and amenities such as lighting, signage and wayfinding.

Hollie Janson Schmidt

South Florida Regional Planning Council (SFRPC) Military Installation Resilience Review (MIRR) – Executive Director for a tri-county resilience strategy to identify the vulnerabilities and mitigation measures to deliver resilience to four military installations. The project will identify distinct projects that the community can deliver.
Tyndall Air Force Base Coastal Resilience Implementation Plan (CRIP) – Strategic Advisory for the transition of coastal resilience nature-based solutions at Tyndall Air Force Base from pilot projects to phasing, funding and implementation. This project is a follow-on to the pre-design guidance developed during the recovery strategy that was developed by Hollie and her team.
USACE ERDC Engineering With Nature for the DOD – Project Executive for a program with the U.S. Army Engineer Research and Development Center (ERDC) which is the premier research and development center for the U.S. Army Corps of Engineers. Jacobs is evaluating 14 military installations for the Department of the Navy to identify projects that can mitigate vulnerabilities due to climate change through nature-based solutions.
Sarasota-Manatee MPO Bicycle, Pedestrian and Greenway Master Plan – Strategic Advisor and Task Manager for a comprehensive master plan for the entire two-county region spanning over 180,000 acres. The project was to undertake a bicycle, pedestrian and trails master plan in response to community needs and a desire to improve safety to pedestrians.
Florida DOT District 1 Trails Regional System Designation – Senior Planner for a comprehensive plan to encourage the counties in FDOT District One to coordinate on a regional level and develop a seamless trails network. The goal of the study was to create an inventory of existing and planned trails that meet the criteria of regional. The process to determine a trail's regional significance will be used as a mechanism to fund future regional multi-use trails throughout the District.
Route 22 Pedestrian Safety Study, New Jersey – Senior Planner for the pedestrian safety recommendations for a .5 mile section of Route 22 which serves as a thoroughfare and commercial corridor to the surrounding community. Proposed upgrades included signalized pedestrian crossings, sidewalk construction, improved bus stops, pedestrian bridge locations, identity creation and focal elements.
Ferguson Road Initiative (FRI) Community Charrette, Dallas, Texas - Based on the FRI Community Summit for Economic Development in October 2002 and through an interactive community charrette, Jacobs developed a concept plan to address possible development and redevelopment sites along Ferguson Road. This area includes established neighborhoods, elementary schools, parks and playgrounds, and ethnic and economic diversity. This plan successfully achieved the FRI goal of creating 500 jobs and $50 million in investments over the next five years.
Site Selection for an Environmental Education Center, Orange County, Florida - In an effort to showcase the natural environment and encourage the community to become stewards of the land, Orange County explored the opportunity of locating an Environmental Education Center in the eastern portion of the County. Three sites were identified as the potential location for the Environmental Education Center. Jacobs was tasked to analyze these sites against an established set of criteria in order to determine the best possible location for the Center. Avalon Park Site Evaluation – As a follow-on to the Environmental Education Center Site Evaluation project, Avalon Park was weighed against the same criteria as the previous three properties to determine its suitability to house the education center.
Fort Christmas Park Master Plan Update, Orange County, Florida - Project Manager for the update to the existing Fort Christmas Park Master Plan layout and rendering. The existing park contains historical "Florida Cracker Homes" representing various timeframes that have been either acquired or replicated. A recent acquisition of an adjacent 113 acre parcel will significantly expand the park and Jacobs is under contract to master plan the new parcel.
Moss Park Master Plan, Orange County, Florida – Project Manager for the creation of a master plan for the 50 acre "day use" area of Moss Park. Traditionally a rural park, Moss Park is located on the outskirts of Orlando in an area that is quickly developing. Growth pressures have forced the park to become more active in nature that it's previous passive nature.

CHARLES J. MOSELEY

Senior Vice President/Director of Program Management/Construction Management; Planning

YEARS EXPERIENCE

31

EDUCATION

BA, English Literature, University of California Los Angeles (UCLA) (Top 10 Program) (Emphasis on Deconstructive Postmodernism)

14 Years Entrepreneurial Experience

TRAINING

Miller Heiman Sales

Shipley Proposals

Leadership Discovery Program (B&V)

Project Management Essentials (MWH)

Construction Management Association of America (CMAA)

- Construction Management Professional Practice
- CM Project Management
- CM Contract Management
- CM Cost Management
- CM Quality Management
- CM Time Management
- CM Value Engineering
- CM Safety Training

USAID Compliance & Federal Acquisition Regulations

- Geo-MIS and Data Quality Reporting Standards & Compliance
- FBI Procurement Procedures Compliance
- Fraud Awareness Training

Ethics & Federal Compliance (17 Years)

Mr. Charles Moseley brings more than three decades of distinguished international program management experience across five continents. With a comprehensive background in leading multidisciplinary program management and project teams, Charles has been a trusted advisor and made significant contributions to diverse industries, including international supply chain management, information and communications technology, and infrastructure development in areas such as water, wastewater, power, and transportation.

As an accomplished Program Management leader, Charles is adept at addressing client priorities and needs with a holistic perspective, emphasizing the importance of a "whole of client organization" approach to achieve superior organizational delivery. His strategic mindset, coupled with expertise in project delivery, business development, contract negotiations, and team development, positions him as a key driver of success for CES's Program Management/Construction Management clients. With a commitment to excellence in every phase of program execution, Charles' leadership will drive transformative outcomes for our clients.

Charles is experienced in all phases of program execution, from conceptualization with the client to program mobilization and optimization, performance analytics, project design and construction, contract compliance and performance evaluation. He has led planning efforts for key programmatic pursuits, developed programmatic processes and procedures, and ensured just-in-time program resourcing through proactive recruitment of key personnel.

Experience includes:

Citywide Program Management Support Services, Miami, FL: Served as Program Director, helping to lead overall delivery of this W/WW/Stormwater/Coastal Protection/Roads/Parks & Rec/Vertical Infrastructure CIP ($1B+ CIP construction value).

Resilient Infrastructure Program, Key Biscayne, FL: Served as Program Director, structuring and helping to lead delivery of this showcase climate-change resiliency program to protect the Village of Key Biscayne from flooding and sea-level rise threats through a W/WW/SW/Coastal/Roads/Power & Data/Vertical Infrastructure CIP with an estimated $400M construction value.

SW & RW Resilience Program, North Bay Village, FL: Served as Program Director, structuring and helping to lead delivery of this showcase climate-change resiliency program to protect North Bay Village from climate change and sea-level rise through a W/WW/SW/Coastal/Roads/Power & Data CIP with an estimated $180M construction value.

North Miami Beach Water Capital Investment Program, North Miami Beach, FL: Served as Program Director, leading the planning and helping to lead overall delivery of this W/WW CIP under a blended capacity model. This 5-year/$117M CIP is designing and constructing improvements to the utility's water distribution network, wastewater collection system and Water Treatment Plant.

FLL I&I Reduction Program, Fort Lauderdale, FL: Served as Program Director, structuring and helping to lead delivery of this showcase climate-change resiliency program to reduce the infiltration of water into the City of Fort Lauderdale's sewage networks with an estimated $100M construction value.

Tampa Bay Water System Engineer Program, Tampa, FL: Served as Program Director, providing leadership and support to this Water Supply & Distribution CIP addressing Tampa Bay Water's water supply, treatment, and distribution improvement needs and to support the implementation of more than $1.2B in CIP projects.

Jacobs

Chad St John, ASLA

Parks Planner, SME

Mr. St. John has managed the design and construction of parks and green spaces of various sizes including small neighborhood parks, community parks, trail systems, major athletic complexes and water parks. Using his expertise in construction management, Chad focuses on the details of design to make sure each project is well suited for construction resulting in long lasting, low maintenance, compatibility of systems, and cost-effective project design. He is skilled in public presentations and leading public design charrettes that build consensus. He is a relationship-based manager resulting in many repeat clients that look to him for excellence in project results.

Education | Qualifications	▪ Bachelor of Landscape Architecture, 1998, University of Arkansas - Fayetteville
Registrations |Certifications	▪ Landscape Architect, 2005, AR, #5102, Landscape Architect, 2003, TX, #2154 Landscape Architect, 2008, OK, #la0318Landscape Architect New Mexico #535Landscape Architect Arizona #60507Landscape Architect Alabama #982
Memberships | Affiliations	▪ ASAL

Employment history

▪ Jacobs, 2005 – present

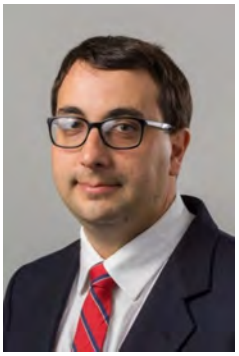
Relevant project experience

- Ocean Terrace Park, Miami Beach, Project manager, implementation of a 5-acre park that converted a street into a park that will connect the new construction of two new condominiums to the beach, work included new wells, drainage, fountains, pavilion, beach walks, lighting, roads, landscape, and irrigation. Completed phase 1 in May of 2025.
- Lorna Doone Park, Lake Lorna Doone Park is located in the West Lakes neighborhood of Orlando, Florida. It was the first park in the United States to host integrated little League baseball games in the south. Today this historic park adjoins the Orlando Citrus Bowl Stadium and is surrounded by mixed neighborhoods on the other three sides.
  Jacobs was hired to study the options for renovation and park improvements making the park a destination within the City and a source of enjoyment for the local residents surrounding the park. The park includes a new plaza in front of the Citrus Bowl Stadium, a first-class playground and water spray park, several canopy covered piers offering majestic views across the lake, wetland boardwalks, civic meeting facilities, tennis courts, restrooms, concessions, a Lake Lorna Doone historic wall walk, futsal courts, butterfly garden, community garden, soccer field, and a large water jet in the center of the lake. This renovation will not only provide a first-class park and recreation experience but will

Resume

help improve the neighborhood as a whole and provide a safe and pleasant public facility. The project has involved an active public participation process to gain consensus on what the park should be.

- B. F. Phillips Park, JACOBS prepared a master plan for B.F. Phillips Community Park through an extensive community input process. Enthusiastic input from the community included sports organizations, stakeholder groups, local residents & various city leaders & boards. This 117-acre community park is designed with a horse farm theme familiar to the local north Texas landscape. It serves as a balance of active sports for baseball, softball & soccer, as well as passive recreation opportunities. Guided by the master plan, Jacobs prepared construction documents for Phase I and 2 developments, which included a centrally located signature baseball/softball five-plex that was designed to serve local competition & tournament events, soccer fields, concession/restroom facility, picnic shelter, playground, parking, and open space.
- Prosper Sports complex, Prosper, TX. Project Manager. Jacobs was hired to develop a master plan, construction documents and perform construction services for two baseball complexes, and a soccer complex. The first phase of the project included 12 soccer fields, a playground, 2 concession stands, parking for approximately 700 spaces, a pond, trail system and roadway system for ingress and egress to the site. The park will jointly share parking in a later phase with the proposed football stadium. Approximate phase I construction cost is $10 mil. Project was completed in January of 2012.
- Klyde Warren Park Nancy Best Fountain, located on the eastern edge of Klyde Warren Park envisions a large interactive fountain with choreographed lighting and music for it visitors. The design includes new restrooms, Kiosk for games and future sales is located along side new walkways, seating areas and all new plantings. The project is currently under construction. Completed 2021.
- The Woodall Rodgers Deck Plaza (Klyde Warren Park) is the result of a public-private partnership between the Woodall Rodgers Park Foundation, the Federal Highway Administration (FHWA), the Texas Department of Transportation (TxDOT), the City of Dallas Public Works & Transportation Department, and the City of Dallas Parks & Recreation Department. The project will create a 5.2-acre urban park above the existing Spur 366 Woodall Rodgers Freeway (the Freeway) connecting Uptown, Downtown and Victory Park and enriching the quality of life for those who live and work in Dallas. Project was completed in 2012.
- Foncine Settlement Park, the inspiration for the design of the park derived from the name, ‘Foncine’. The park was a ridge considered to be the highest point in Collin County and became known as ‘Foncine’ in the late 1800s. Eventually, ‘Foncine’ evolved into one of the county’s first communities during the early 1900s. With this in mind, the park was designed as an old settlement/homestead, a barn house pavilion, with a front porch, while the circle layout for the playground symbolizes a corral of wagons. JACOBS provided master planning and construction documents for this seven-acre park featuring open space for athletic practices and other recreation activities for basketball, football, soccer and volleyball, a walking trail, a play structure, a picnic pavilion with tables, and a barbeque grill.
- SARA, San Antonio, TX, team member. The River Improvements Project aims to provide stable, maintainable flood control while environmentally restoring sections of the river to their natural meanders and adding amenities and recreational opportunities along the river. As a part of the overall River restoration, our team designed the trail network associated with the restoration along with the pavilions, benches and other amenities.



David Savarese, AICP

Planning

Profile

David is a program manager and certified planner with more than a decade of experience helping communities plan and recover. Motivated by an understanding of public policy, but driven by the practicalities of delivery, he has supported a range of global, federal and local clients. David's professional emphasis focuses on institutional and community strategies, the implementation of public policy, built and natural environments, sustainability and resilience.

Key skills | Areas of expertise	▪ Planning, Environmental Management, FEMA Compliance, Parks and Open Spaces, Community Facilities
Education | Qualifications	▪ Master of Science, Urban Policy and Management, The New School, 2008
	▪ Bachelor of Arts, Sociology, New College of Florida, 2004
Registrations | Certifications	▪ American Institute of City Planners - Certified Planner (AICP) # 329773
	▪ International Environmental Management Association - Chartered Environmentalist (CEnv) #0149786
Memberships | Affiliations	▪ ARISE–UN – US Board Chair
Training	▪ Federal Emergency Management Association – Program Delivery Manager (PDMG) - PDS #0002380410

Employment history

- Jacobs, Program Manager, Remote, 2019-Current
- Jasara, Sustainability and Resilience Technical Lead, 2017-2019
- Jacobs, Washington DC, Planner, 2011-2017
- Capitol Riverfront BID / Yards Park, Washington DC, Operations Associate; 2010-2011
- Union Square Partnership / Union Square Park, New York City, Operations Associate; 2007-2008

Relevant project experience

Hermit's Peak Recovery Program: Real Estate Finance Assessment

Client: FEMA (Federal Emergency Management Agency)

Role: Planner

Responsibilities: Work with policy team to develop financial assessments for real estate, energy and ecosystem losses.

Scope, description and value: The Federal Emergency Management Agency (FEMA) is working to determine whether there has been a significant long-term impact to the value of private residential property as a result of the Hermit's Peak/Calf Canyon Fire that occurred between April 6, 2022, and August 21, 2022. This report provides an overview of the real estate market in the study areas, largely San Miguel and Mora Counties. The following report examines real estate data for the counties and uses a range of factors to characterize the affected and unaffected areas.

Added value: Created PowerBI toolset, collected and analyzed proprietary data using geospatial tools.

David Savarese, AICP

Hardee County Resilient Parks and Open Space Program

Client: FEMA / Hardee County, Florida

Role: Planner

Responsibilities: Worked to integrate planning, policy, and design teams; leveraged ecology and environmental expertise on landscape scale solutions.

Scope, description and value: The information gathered is used to aid in the development of potential resilience strategy and tactics that could be implemented. These strategies and tactics intend to minimize the impacts of climate related shocks and stressors most seen in Florida's Heartland. Including Hardee County, Zolfo Springs, Wauchula, and Bowling Green. The strategies and tactics aim is to minimize overall risk to both the parks and the network of parks. Geolocated photos are taken during the tour of the parks and their assets, providing additional accuracy when reviewing findings later in the study

Added value: Conducted stakeholder meeting and fieldwork on short program.

Kona Open Space Masterplan

Client: Kona County, Hawaii

Role: Planner

Responsibilities: Worked alongside community stakeholders to develop network and hub options; crafted content for public engagement; drafted initial analysis and StoryMap engagement.

Scope, description and value: The County of Hawai'i Planning Department initiated the Kona Open Space Network (KOSN) Plan project, with Jacobs Engineering Group as the primary consulting firm. The KOSN represents a community-driven objective of the Kona Community Development Plan, aiming to establish connections between public open spaces, parks, neighborhoods, and historic sites. This plan seeks to maintain green drainage and flood control areas while preserving trees for shade and carbon absorption. Additionally, it intends to develop a network of pedestrian and bicycle trails on and off-road to encourage healthy and active lifestyles.

Technical Service Support to FEMA Headquarters

Client: FEMA

Role: Subject Matter Expert

Responsibilities: Provided planning, environmental and program delivery guidance for public assistance programs.

Scope, description and value: The Federal Emergency Management Agency (FEMA) is in an update cycle for the Public Assistance Program and Policy Guide (PAPPG). FEMA has requested assistance identifying additional mitigation measures that can be added to Appendix J that will satisfy cost-effectiveness requirements. Appendix J: Cost-Effective Public Assistance Hazard Mitigation Measures outlines cost-effective mitigation measures eligible under the Public Assistance (PA) program, provided the measures do not exceed 100 percent of eligible repair cost. Our report provides the methodology and results of the cost-effectiveness analysis completed for a wide range of mitigations. Ultimately the team determined which technologies and applications, ranging from tornado safe rooms to permeable pavement, are effective and allowable ways to build back better following recovery.

Resume

Jacobs

Julie Ambrosino

PLANNING

Julie is a capable leader with a passion for public engagement and a strong record in successful policy development, strategic planning, and community-driven projects. She integrates climate resilience and equity into her city work, seamlessly integrating these priorities into her projects at Jacobs by building effective partnerships and driving collaboration. As a solutions-oriented professional, Julie advocates for equitable, sustainable strategies that thoughtfully represent those affected by a project or policy keeping the "end user" in mind. As a skilled communicator, she advocates for inclusive, sustainable outcomes and fosters, open, honest dialogue to resolve conflicts and support team success.

Key skills | Areas of expertise	▪ Financial & Grant Services ▪ Public Engagement ▪ Strategic & Master Planning ▪ Relationship Management ▪ Public Policy ▪ Community & Economic Development ▪ Municipal Infrastructure & Systems ▪ Data Analytics
Education | Qualifications	▪ B.A., Biological Sciences, University of Maryland ▪ Minor in Environmental Geography, University of Maryland
Registrations | Certifications	▪ Series 7, CRD# 5511221 ▪ ISI Envision SP (in process)
Languages	▪ A1 German ▪ A2 Japanese

Employment history

- Jacobs, Bath, ME (04/2024 - Present) – Sustainability & Financial Consultant
- City of Bath, ME (11/2017 - Present) – City Councilor Member & Vice Chair of City Council
- Morgan Stanley Wealth Management (07/2014 - 09/2021) – Registered Financial Professional

Relevant project experience

Title: Sustainability, Resilience & Climate Response Financial Specialist
Start/End Dates: Professional Services: 03/2024 - Present
Experiences:

- Conducted narrative and budget assessments for multiple organizations applying for EPA Community Change Grant – *follow on work was developing guidance documents for grant performance for organizations with awarded funds* (September, 2024 – February, 2025)
- Co-leading data compilation and analytics of US Navy electric utilities to identify usage trends and anomalies to optimize costs and manage future savings (August, 2024 – Present)

Resume

- Conducting state and federal permitting services for the Town of Orrington, Maine new boat launch and recreational site (January 2025 – Present)
- Performed quality control on cost estimates, business case/economic analysis for Makaha Ridge erosion mitigation design at the Pacific Missile Range Facility in Kaua'i, Hawaii (February 2025)
- Supported Lahaina roadmap creation of public parcel redevelopment for Maui wildfire recovery (May, 2024– July, 2024)
- Providing QA/QC for business case analysis pathways with landfill gas program for Doyon Utilities and the City of Anchorage, Alaska (March 2025 – Present)

Organization Associated with: Jacobs

Title: City Council Member & Vice Chair of City Council
Start/End Dates: Professional Services: 11/2017- Present
Experiences:

- Advocated for $24mm in critical infrastructure upgrades that went to referendum for the voting public. Voters ultimately approved the bond, enabling the city to further replace its aging sewer and water system
- Approved affordable housing TIF district for new LEED certified 47 single bedroom multi-unit with follow on approval for a second building to support workforce housing with 2nd building in the queue for approval in Summer 2025
- Championed landfill solar project and citywide LED streetlamp conversion. The solar array will offset 50% of city electricity with $270k in savings predicted by year five, and LED lights will save taxpayers $350k in just over three years' time
- Reviewing multiple development and site plans for Bath Riverwalk extension to expand open and recreation space along the Kennebec River
- Managed multi-staged search to hire climate consultant to update our cities climate action plan in 2024, culminating in a successful, consensus driven decision of a highly qualified firm
- Represented city as part of Bath's sister city connection to Tsugaru, Japan. Spent time with Tsugaru delegates and host family experiencing Japanese customs and traditions as part of this cultural exchange

Organization Associated with: City of Bath, Maine

Title: Registered Financial Professional
Start/End Dates: Professional Services: 07/2014-09/2021
Experiences:

- Coordinated time sensitive stock option transfer for client in ten tranches over two months; carefully executed trades with stop-limit order strategy
- Fast tracked opening of donor advised trust accounts by 12/31 for clients to gift low basis stock for annual charitable donations; gifts ranged from $25k to $250k
- Skillfully managed estate settlement of complex multi-generational trust that entailed both cash and stock distributions. Secured relationships with all beneficiaries resulting in a timely and cordial execution of the estate

Firm Associated with: Morgan Stanley Wealth Management, Portland, ME

CRAVEN THOMPSON & ASSOCIATES

Scott Peavler, P.L.A.

Principal Landscape Architect / Landscape Architecture Project Manager

Mr. Peavler's responsibilities include site planning, landscape and hardscape design, tree removal and relocation plans in AutoCAD and presentation graphics, utilizing knowledge of local and state regulations involved in land development on a range of projects. Coordinating with Clients, City officials, and other consultants to obtain project input and approvals.

Professional Registrations

- Professional Landscape Architect, State of Florida No. LA66669976 (2008)

Education + Training

- Bachelors of Landscape Architecture, Kansas State University (2005)

Years of Experience

- Total: 20; With Firm: 16

Relevant Experience

Sunrise Sportsplex | Sunrise, Florida | Project Manager - Landscape Architect
Mr. Peavler was the Project Manager for Sportsplex which included: Four Baseball / Softball Fields, Two Soccer fields or One Full Size Multi-Use Soccer / Football Field, hard covered dugouts, Bleachers with cantilevered shade canopies, Centralized two-story concession, restroom, meeting space and scorer's building, restroom / maintenance building for the Soccer Fields, two playgrounds with shade, structures, sports lighting for all fields, batting cages, Two parking lots with entry signage, southbound right turn lane on Pine Island Road, pedestrian connections to West Pine Middle School for shared use facilities agreement.

Caporella Park Enhancements | Tamarac, Florida | Landscape Architect
Craven Thompson teamed with Walters Zackria Architects to provide civil engineering, landscape architectural, and construction administrative services. The site is approximately a 9.3-acre lot (3.73 acres surface area and 5.57 lakes). Enhancements included: Native landscaping on at least 30% of the site, an 8' multi-use concrete path with one central fitness station, a 1,000 S.F. restroom/storage facility, A 4,000 sf playground including safety surface & shade structure, picnic shelter, benches, grills, water fountains, non-motorized boat launch with floating boat dock, 2,500 SF splash pad, expansion of onsite parking area, irrigation & landscape improvements, lighting, video and security system, and a fiber network infrastructure. The City of Tamarac was awarded a $50,000 Florida Recreation Development Assistance Program Grant for this project.

Bluesten Park | Hallandale Beach, Florida | Landscape Architect - Design and construction of a 42,000 square foot recreation center with pool and splash play area, soccer/multi-use field, 3 baseball fields, 3 basketball courts, 2 tennis courts, 2 racquetball courts, boundless ADA inclusive playground, walking trails and pavilions; and full promenade streetscape design for surrounding streets for pedestrian friendly corridors and parallel parking.

12th Street Park | Sunrise, Florida | Landscape Architect - In order to improve the usefulness, and aesthetics of the park, Craven Thompson designed a walking path, benches, receptacles, picnic tables, lighting, landscaping, and signage. The park design received the APWA Project of the Year Award * Beautification in 2017.

Veterans Memorial Park | Sunrise, Florida | Landscape Architect - In a series of new or renovated passive parks in the City of Sunrise, Veteran's Memorial Park stands resolute in distinction. Anchoring the park at its center is a large hand carved Pennsylvania granite monument. Circulating the park are companion monuments, one for each branch of the U.S. Military branches. In addition, there is an iconic 14,000 square foot playground and plans to expand the park with an obstacle course similar to those used in military training. Following concept design and project bidding; became responsible for construction administration and observation. Craven Thompson performed landscape architectural and civil engineering services for the project.

Jaco Pastorius Park Expansion, Gateway & Fountain | Oakland Park, Florida | Landscape Architect This project involved the expansion of the park to include a green parking field and infrastructure upgrades for a community garden and City festivals. The expansion included the implementation of a grass parking lot that will be used for overflow parking during the City's annual festivals that are held at Jaco Pastorius Park. Parking, fencing, sidewalk connections, and park signage were provided for the community garden / farming facilities located at the park.

Scott Peavler, PLA (Continued)

CRAVEN THOMPSON & ASSOCIATES

Mailman Segal Center Playground | Davie, Florida | Project Manager | Landscape Architect
Craven Thompson prepared a design for the Mailman Segal Center which is a preschool and early development center. The playground design is based on an open play theme with a focus on nature and organic materials. Without prescribed play/climbing equipment the series of activities revolve around a weaving path, interactive stream bed, & artistic natural play. The site design combines existing and proposed plants with an open concept that allows for the movement and change of activities to meet the needs of the school. Gardening, nature, & imaginative activity was the primary theme of this playground design.

Vista View Park Splashpad | Broward County, Florida | Landscape Architect
Craven Thompson & Associates provided professional consulting landscape architectural services for the design of a splash pad at Vista View Park. Craven Thompson was a sub-consultant to Thompson & Associates under a contract with Broward County Parks and Recreation.

Stunson Nature Trail | Oakland Park, Florida | Landscape Architect
The City recently converted an underutilized piece of land used primarily for the storage of stormwater runoff into a park demonstrating the region's various ecological zones. Serving as a site to continue holding stormwater but now connects of a string of County and City parks further providing open space and natural habitat. Project contributions included site design, compiling the native plant list, landscape design, and interpretive signage.

Sunrise Bicycle/Pedestrian, Greenways and Trails Master Plan | Sunrise, Florida | Landscape Planner
Craven Thompson along with Alta Planning + Design was hired by the City of Sunrise to prepare a Bicycle / Pedestrian Greenways & Trails Master Plan. The Plan defines a system of sidewalks, bike lanes, paths, greenways and trails within the City of Sunrise that provides integrated and continuous corridors for non-motorized transportation and recreation throughout the city in a manner that is sensitive to the needs of various user groups, the natural and built environment, the management and maintenance, and potential funding capabilities.

Davie Westend Firefighters Park | Davie, Florida | Project Manager | Landscape Architect
The park is a memorial firefighter park / playground. It is a passive park associated with the drainage that includes a small playground with rubber surfacing, a fire fighters cross paver medallion, and a memorial tree for a previous fire chief of the Town. There is also a pedestrian path that runs the length of the park with a future connection to a greenway system in the Town. Craven Thompson provided landscape services for the Town of Davie CRA that included the implementation of a passive park / retention area, playground area, parking lot, paved walkways, and landscape areas.

Oak Hammock Park | Sunrise, Florida | Principal Landscape Architect
The park contains a walking/jogging trail utilizing pervious materials, multiple custom designed picnic pavilions, pervious parking, expansive open play areas, a large playground which includes rock climbing, and two custom designed restroom facilities as well as environmental educational materials along the boardwalk and at the entrance. The park is planted utilizing 75% native species and utilize recycled materials in all site furnishings. Craven Thompson was the prime consultant responsible for the park design as well as the survey, preparation of the open-space park management plan, the design workshops, conceptual site design, Construction Documents and Construction Management for the City of Sunrise.

Cypress Preserve Park | Sunrise, Florida | Landscape Architect $3.5 Million. The site plan was designed to preserve and enhance all of the existing natural resources while providing a beautiful, safe and functional passive park for the residents. The park contains a walking/jogging trail with exercise stations, an elaborately themed Splash Pad / "Sprayground", pervious parking area, a nine-hole disc golf course, multiple custom picnic pavilions and a custom restroom facility as well as environmental educational materials. As you enter the park a recycled glass river guides the visitors to the "Sunrise Swamp"- Splash Pad and there amongst the lush native vegetation the alligators are there to spray you with water. Craven Thompson and Associates, Inc. was the prime consultant responsible for the park design as well as the survey, preparation of the open-space park management plan, the design workshops, conceptual site design, Construction Documents and Construction Management.

Jacobs

Years of Experience:
- 30

Education:
- Master of Architecture University of Illinois, Urbana-Champaign
- Bachelor of Science, Architecture Studies, Southern Illinois University, Carbondale

Professional Affiliations & Licenses:
- American Institute of Architects
- Licensed Architect
  - Florida, License #AR99738
    Issued 9/14/2018
    Expires 2/28/2027
  - Illinois, Lic #001017154
    Issued 4/1/1999
    Expires 11/30/2026
  - Missouri, Lic #2010020300
    Issued 8/26/2010
    Expires 12/31/2026

Stuart D. Patterson, AIA

Design Management – Facilities Design

Summary of Relevant Qualifications

Stuart has 30 years of experience in program & project management, architecture and construction management. With a broad background in all phases of management, design and construction, including new construction, additions and renovations, Stuart's management experience spans a wide range of public and private markets, including parks and parks facilities, commercial, corporate office, justice, education, industrial, and aviation, projects, from design conception through construction administration and project close-out. His primary strengths are his ability to successfully manage and complete multiple simultaneous projects of all scales on time and under budget, ensuring project design intent adherence and quality assurance and control.

Stuart has provided program and program management services on multiple public park projects of multiple sizes and complexities, from athletic surfaces and lighting replacement to an entirely new 55-acre park. He acts as the trusted liaison to the client and the public, as well as a manager of professional services, including planning, design, specialty consultants and permitting. As a licensed architect for over 25 years, Stuart has extensive experience as a design project manager, empowering him with valuable skills and experience necessary to ensure adherence to design schedules, budgets and design intent, as well as provide conceptual design and materials alternatives. Additionally, Stuart has comprehensive construction administration experience, including preconstruction, financial, scheduling, procurement and contractor management. Stuart is highly skilled at delivering design and construction quality assurance & control, financial management, conflict resolution and public engagement, providing significant value to clients to mitigate program risks and position projects for success.

Select Parks & Recreation Work Experience

Canyon District Park - Boynton Beach, FL ($51M Construction)
Program, design and construction management of multi-phase program comprehensively consisting of three (3) natural grass multipurpose (soccer, lacrosse & football) fields, four (4) natural grass baseball fields, (2) batting cages, (2) sand volleyball courts, (1) signature County playground, (1) maintenance building, (2) concession buildings, (1) storage facility, (4) outdoor pavilions, multiple dives and parking areas and a 1-mile fit trail with exercise stations. All fields, the volleyball courts, playground, parking, drives and walkways are lighted for maximum usability and patrons' safety. The previously undeveloped 55-acre site is being developed in two (2) primary phases, with Phase 1 completed in September 2022. Phase 2 on schedule to be completed in December 22025. As the new park is located in the heart of a residential neighborhood, particular attention must be given to adjacent neighbors, providing unique challenges which require innovative solutions, such as the construction of temporary and permanent berms to mitigate construction noise, light and vibration. Although it is already a success with those that come from throughout Palm Beach County to enjoy the space, fields and other amenities, the true value of the new park will be fully recognized upon completion of Phase 2 later this year.

Jacobs

Notable Clients:

- Palm Beach County Board of County Commissioners
  - Parks & Recreation
  - Facility Development & Operations
  - Library
  - Fire Rescue
  - Emergency Operations
- General Services Administration
  - US Department of Transportation
  - US Department of Agriculture
  - US Coast Guard
  - Internal Revenue Service
  - Immigration & Customs Enforcement
- District of Columbia Department of General Services
- US Corps of Engineers

Mack Bernard (Gramercy) Park Neighborhood Center - West Palm Beach, FL ($9.5M Construction)
Program, design and construction management of one-story, 12,000 square feet community center and day care for underprivileged youth on a previously undeveloped 6-acre site. The facility consists of a multipurpose room, music and dance studios, kitchen, day care spaces, nurse station and administrative spaces. Site development includes a ¾ mile walking trail, parking and development of remaining acreage for general park use. The project is on schedule to be completed under budget in Summer 2025, enabling the non-profit manager of the facility to seamlessly continue its efforts with the community.

Lake Lytal Park Aquatic Center - West Palm Beach, FL ($48M Construction)
Program, design and construction management of multi-phase project on previously undeveloped 22-acre site. The project consists of an 8-lane 50-meter competition swimming pool, competition diving well, aquatic play zone, rehabilitation pool, equipment building, concession building and lockers, education & administration building, as well as parking and associated competition amenities. The project is scheduled to be completed in Spring 2027. Simultaneously under constructed and contracted separately is an adjacent YMCA and Olympic-style skate park, requiring additional coordination and management with a design team and contractor external to the Aquatic Center project.

Palm Beach County Parks & Recreation Sports Field Lighting Replacement - Palm Beach County, FL ($8M Construction)
Program, consultants and construction management of multi-phase Replacement of over 3,500 existing metal halide light fixture with 1,650 LED fixtures on 460 existing poles at 159 venues located in 17 parks throughout Palm Beach County. Due to the project consisting of multiple separate contracts, innovative project management strategies were developed, including cross-coordination of multiple contractors, multiple design engineers and the light fixtures supplier. The result was universal celebration by facilities users for enhanced facilities, PBC Parks & Recreation for on-time and under budget management of the program, neighboring communities for reduced light spill and County Administration for improved security and safety.

Palm Beach County Parks & Recreation Sports Field Turf Replacement - Palm Beach County, FL ($27M Construction)
Program, consultants and construction management of multi-phase Replacement of (19) existing natural grass multipurpose (soccer, football & lacrosse) and baseball fields with synthetic turf fields located in (8) parks throughout Palm Beach County. The project, with all parks scheduled to be complete before Summer 2026, overcame multiple design and permitting challenges due to the increased governing agencies involved with a project of this nature. To date, several parks are complete and have received praise from users due to the enhanced playing surfaces and reduction of injuries and from PBC Parks & Recreation because of efficient management of the complex program.

Other Parks & Recreation Work Experience

- **John Prince Park Miracle League Ballfield Renovations - Lake Worth, FL ($2.2M)**
- **Palm Beach County Parks & Recreation Parking Lots & Pedestrian Walks Lighting Replacement - Multiple Projects ($4M)**
- **Palm Beach County Parks & Recreation Racquetball Courts Replacement - Multiple Projects ($7M)**
- **Canyon Town Center Amphitheater Renovation - Boynton Beach, FL ($600K)**

ERNESTO (ERNIE) Z. CANO

Vice President of Construction; Construction & CEI Management

YEARS EXPERIENCE

42

EDUCATION

BS, Civil Engineering, Florida International University

BS, Electrical Engineering, University of Miami

Associate in Arts of Architecture, Miami-Dade College

PROFESSIONAL AFFILIATIONS

Institute of Electrical Electronic Engineers

American Society of Civil Engineers

National Society of Professional Engineers

Cuban Engineering Society

Save International

Mr. Ernie Cano has 42 years of experience in MEP, civil, and electrical design and construction of residential, commercial, aviation, electrical transmission & distribution facilities, and water & sewer infrastructure and facilities projects and programs ranging in size to $4.3B.

As Construction Program Manager, Ernie has worked side-by-side with public and municipal clients and owners to deliver large-scale multi-disciplinary and multi-phase Capital Improvement Programs (CIP) on time and within budget while upholding the highest standards of quality and safety. His expertise includes management of pre-planning, design, construction, warranty, training, start-up and commissioning, and close-out in all types of project delivery methods including design-bid-build, design-build, and construction manager-at-risk.

Experience includes:

City of Miami Office of Capital Projects Program/Project Management Services, Miami, FL: Senior Construction Project Manager on Miami Forever Bond-funded projects such as roadways and right of ways, parks, municipal facilities, public facilities, public safety facilities, environmental, and sea-level rise, and flood prevention infrastructure projects, as well as other capital project as assigned by the City's Office of Capital Improvements (OCI). Responsibilities include:

Project Planning and Initiation

» Definition and Scope: Collaborating with City stakeholders to define project objectives, scope, deliverables, and key performance indicators (KPIs); and Developing comprehensive project charters and initiation documents for each project.

» Budget Development and Management: Preparing detailed project budgets, including cost estimation, forecasting, and financial reporting; and Managing project funding sources, ensuring efficient allocation and expenditure tracking.

» Schedule Development: Establishing baseline project schedules using industry-standard tools (e.g., Primavera P6, MS Project); and Identifying project milestones, critical paths, and dependencies.

Design Management

» Consultant Coordination: Overseeing the selection and management of architectural and engineering consultants; and Facilitating regular design review meetings to ensure alignment with project goals and City standards.

Regulatory Compliance

» Ensuring all projects comply with local, state, and federal regulations, including permitting requirements; and Coordinating with regulatory agencies to secure necessary approvals.

Design Quality Assurance

» Implementing quality control measures during the design phase to mitigate risks and design discrepancies; and Conducting constructability reviews to identify potential issues before construction begins.

Procurement and Contract Administration

» Bidding and Procurement: Preparing bid documents, including Request for Proposals (RFPs) and Invitations to Bid (ITBs; and Managing the bidding process, evaluate proposals, and recommend contract awards.

» Contract Management: Drafting and administering contracts for contractors, suppliers, and consultants; and Ensuring all contractual obligations are met, including deliverables, timelines, and budget adherence.

Construction Management

» On-Site Project Oversight: Providing day-to-day management of construction activities, ensuring compliance with project plans, specifications, and safety standards; and Conducting regular site visits to monitor progress and resolve any issues promptly.

» Coordination and Communication: Acting as the primary liaison between the City, contractors, and other stakeholders; and Maintaining transparent communication through regular progress reports, meetings, and updates.

» Quality Control and Assurance: Implementing a rigorous quality control program to ensure all work meets or exceeds the City's standards; and Performing inspections and facilitate third-party testing as required.

» Risk Management: Identifying and mitigating project risks through proactive planning and problem-solving; and Developing and implementing contingency plans to address unforeseen challenges.

Project Close-Out and Turnover

» Final Inspections and Punch Lists: Coordinating final inspections and ensure completion of all punch list items; and Verifying that all work is completed to the City's satisfaction and specifications.

» Documentation and Handover: Compiling and submitting all required project documentation, including as-built drawings, operation manuals, and warranties; and Facilitating a smooth transition of completed projects to the City's operations and maintenance teams.

» Post-Construction Evaluation: Conducting post-construction reviews to evaluate project success and lessons learned; and Providing recommendations for future project improvements.

Projects being managed by Ernesto include:

» **Dr. Armando Badia Senior Center Renovation & Expansion at Flagami Park:** Providing Project Management oversight and coordination for this ±$10.2M City Bond and State of Florida Department of Elder Affairs funded project that includes planning, design and construction services for the renovation and 8,367 SF expansion of the Badia Senior Center at Flagami Park. The project introduces a comprehensive suite of enhancements designed to enrich the lives of seniors by promoting social interaction, lifelong learning, health, and accessibility. Improvements include a brand-new multipurpose community room, a modern dining hall with a warming kitchen and covered outdoor seating area, complete renovation of an existing classroom and the addition of two (2) new classrooms, a computer lab, fully equipped gym, new ADA-compliant restroom facilities, and modernization of the reception area and office spaces to enhance operational efficiency and provide a more welcoming experience for both staff and visitors.

» **Elizabeth Virrick Park New Aquatic Facility:** Providing Project Management oversight and coordination for this $11.3M new multipurpose facility to include a 25-yard lap pool with six (6) swimming lanes, a shallow pool, and a zero entry pool with play structure and slide. The project will also provide for a new pool bathhouse that includes bathrooms and storage; a new pool pump building; new lifeguard office/first aid building; new trash enclosure for improved garbage pick-up; and right-of-way improvements that include the installation of a new water line on Hibiscus Street, to connect to existing water lines on Day Avenue and Percival Avenue and new sanitary sewer connection on Oak Avenue.

» **Fairlawn Community Park, Phases I & II:** Providing Project Management oversight and coordination for this ±$1.6M project. The newly constructed park includes new playground areas for toddlers ages 2-5 and one for children ages 5-9, walkways/pathways around the park, an abundance of trees, water stations, bike racks, and a dog run area with a pet waste station. Roadway improvements around the park were also part of the scope.

» **West End Park & Pool Enhancements:** Providing Project Management oversight and coordination for this $16.8M City Bond funded project. New and improved proposed elements of the park include a new multi-use sports field, a walking trail with exercise equipment stations, two tennis courts, two basketball courts, a landscaped shaded plaza with sitting areas, a children's splash pad with spray features, dumping buckets, climbable waterplay, and waterfall wall, a new pool building with a new swimming pool for recreational swimming and lessons, including a wellness lap pool component, a new entry plaza with service entrance and a paved walkway, a lightning warning system, and art in public places components.

» **Shenandoah Park Improvements & Pool Enhancements:** Providing Project Management oversight and coordination for this ±$9M City Bond funded project that includes planning, design and construction services for general park enhancements. New and improved elements of the park included a new swimming pool facility, two new basketball courts, a new soccer field, fitness equipment, a library plaza, and ball field improvements.

RAFAEL URDANETA

Director of CEI; Construction Management

YEARS EXPERIENCE

37

EDUCATION

Construction Management Certification, Florida Atlantic University, 2007

BSCE, Universidad Rafael Urdaneta, Venezuela, 1987

CERTIFICATIONS & TRAINING

TIN: U63573061

Stormwater Management Inspector

FES Stormwater Management Designer

FDOT Local Agency Program & FHWA Certification

CTQP Asphalt Paving Levels 1 & 2

CTQP Drilled Shaft Inspection

CTQP Earthwork Construction Inspection Levels 1 & 2

CTQP Final Estimates Levels 1 & 2

CTQP QC Manager

Excavation & Safety OSHA Certified

USACE Construction Quality Management for Contractors

FHWA-NHI Safety Inspection on In-Service Bridges

ACI Concrete Transportation Construction Inspection

Natural Resources Management, L'Università degli studi di Urbino Carlo Bo, Italy, 1988

Maintenance of Traffic, Advanced

IMSA Traffic Signal Inspector

Mr. Rafael Urdaneta has 37 years of engineering experience, including design, construction management, construction project administration, and construction engineering inspection (CEI), with significant experience on roadway and bridge construction projects. His experience includes public and private projects involving buildings, wastewater facilities, utilities, stormwater and drainage systems, water distribution, malls, high rise buildings, petroleum platforms, subdivisions, and medical centers. His background includes managing construction and maintenance projects throughout FDOT Districts Four and Six, for the Miami-Dade County Expressway Authority (MDX), the Cities of Miami Beach, Fort Lauderdale, Hialeah, Delray Beach, North Miami, Miramar, and Pembroke Pines, and Palm Beach and Miami-Dade Counties. His software expertise includes AutoCAD, Office, Revu Bluebeam, Sitemanager, MAC, PTS, HY-8, and WMS.

Experience includes:

Seminole Tribe of Florida Tribalwide Construction Engineering Inspection (CEI) Continuing Services Contract, STOF Reservations, FL: Director of CEI overseeing all task orders for ongoing CEI services through a multi-year continuing services contract. Work includes coordinating inspection activities from Notice to Proceed through Final Completion for each task order and daily on-site, full time inspection to determine compliance with contract documents, approved submittals, shop drawings, and permits. Duties also include verification that contractor initiates, maintains, and supervises all safety precautions and programs; maintenance of job site records and permits; project reporting; evaluation and approval of contractor's payment and procedures; change order review and approval; providing interpretations of contract documents; reviewing and responding to contractor's substitution requests; coordinating record drawings with the contractor; and project punch list coordination, including advising on payments, partial release of retention, final payment, release of retention, and release of insurance and bonds.

Design/Build Riverwalk South Regional Park RPR Services, Fort Lauderdale, FL: This project consisted of reconstruction and improvements to a portion of the Riverwalk Regional Park between SE 3rd Avenue and Andrews Avenue, which included a new fire line, new vacuum sewer line, replaced overhead utilities to underground, installed 14 new marine power stations and evacuation pedestals, replaced the existing two-way road with a one-way paver road, coordinated seawall repair, new tropical landscaping and a new lighting system. Construction Cost: $3M.

SE 15th Avenue Bridge Replacement CEI Services, City of Fort Lauderdale LAP, FM 230734-1-58-01, FDOT District Four, FL: Project administrator responsible for overseeing and monitoring all aspects of the project. He supervised the field inspection team, provided guidance and resolution on field changes, responded to all contractor's RFIs and shop drawing submittals, submitted all reports, and monitored the budget. The scope included full bridge demolition and complete replacement of two existing low-level concrete bridges. These are two 130' span two-lane bridges over the Marcheta and Carlota Rivers each containing 21 double tee beams each with new pre-stressed precast solid panels and an improved prestressed precast concrete pile foundation system, including Class 5 concrete finishing. The bridge replacement project scope also includes sidewalk widening, traffic railing barrier with aluminum pedestrian/bicycle railings on both sides, bridge deck grooving, minor roadway reconstruction, milling and resurfacing, pavement marking and signing, slope stabilization, utility relocations, lighting, and landscaping. Cost: $3.8M. Project Length: 0.2 miles.

JORGE ZURITA, CGC

Construction Management

YEARS EXPERIENCE

35

EDUCATION

BS, Construction Management with Honors, Florida International University, 1995

AA, Architecture with Honors, St. Petersburg Junior College, 1992

Architectural Graphics & Models, New Jersey Institute of Technology, 1986

REGISTRATIONS, CERTIFICATIONS & TRAINING

Florida Certified General Contractor #CGC1526982, 2018

State of Florida Real Estate Associate #SL3310949, 2014

USACE/NAVFAC Construction Quality Management for Contractors

OSHA 500 Safety Trainer in Construction

Certified ISO 9001 Internal Auditor

AIA/CES Registered provider (J510) Is it Really Green (Program 00006)

Management Commitment & Employer Involvement

EAP of South Florida DOT (49 CFR 382.307) Reasonable Suspicion Drug Testing Training for Supervisors

American Galvanizers Association Certification

PROFESSIONAL ASSOCIATIONS

Project Management Institute Association

FIU Department of Construction Management Industry Advisory Council

Vocational Institute Career Association

Mr. Jorge Zurita, a Florida-certified general contractor, is a professional senior program construction manager with over 35 years of combined construction industry experience building large and complex projects. His vast experience includes high rises, bridges, roads/highways/rail, sports stadiums and arenas, performing arts/theaters, warehouses, retail spaces, commercial uses, residential, airports, parking garages, and cargo building facilities. Jorge is experienced in: managing the construction of building, roadway infrastructure, sea-level rise infrastructure, and drainage projects; preparing work orders and NTPs; verifying contractor invoices for payment; reviewing plans and specifications for conformance; monitoring budgets and schedules; conducting pre-bid and pre-construction meetings; evaluating bids; procurement; reviewing inspection reports; monitoring construction progress; preparing change orders; substantial completion inspection and punch list preparation; contractor/consultant evaluation; arranging for correction of defects; conducting site inspections; obtaining building permits; and maintaining project records.

He has used his diverse senior leadership background in program management, construction management, corporate quality management and safety, project planning, scheduling, contract administration, budgeting, and cost control to deliver successful projects. His construction management roles have involved technical expertise in all phases of permitting, design coordination, schedule, budget, quality, pre-construction, project implementation, procurement, contract negotiations and execution, oversight, planning, delivery strategy, construction managing, commissioning, cost control, project controls, and contract closeout.

Experience includes:

City of Miami Office of Capital Projects Program/Project Management Services, Miami, FL: Senior Project/Construction Manager supporting this contract. As part of this contract, CES staff are acting as agents of the City of Miami to assist with the undertaking of primarily Miami Forever Bond-funded projects, including roadways and right of ways, parks, municipal facilities, public facilities, public safety facilities, environmental, and sea-level rise, and flood prevention infrastructure projects, as well as other capital project as assigned by the City's Office of Capital Improvements. Projects include:

- **40-50-Year Recertifications, Citywide Parks & Projects:** The City recertifies structures 40 years or older to ensure they are safe for use and occupancy, as per the Miami-Dade County Code. New guidelines and requirements for building recertifications have been put in place since 2022. Sr. Project/Construction Manager is supporting the City by providing project management oversight and coordination and construction management services for multiple, concurrent citywide projects. There are currently 16 Parks projects and 23 Citywide projects being tracked for their 40-year recertification inspection, start up, and completion. Services and responsibilities include: administrative and program management support; reviews and risk assessment reviews; project initiation, monitoring, controlling, and reporting; project management and construction management of projects throughout the planning, design, bidding, construction, closeout, warranty, and related services phases; assisting in the procurement of architecture, engineering, and construction services under the direction of the City's department of Procurement, and in accordance with governing states law and City ordinances and policies; coordinating with outside agencies and construction authorities having jurisdiction for inspection; and conducting value engineering analyses and constructability reviews.

- **Belafonte Tacolcy Park 40-Year Recertification:** The City recertifies structures 40 years or older to ensure they are safe for use and occupancy, as per the Miami-Dade County Code. New guidelines and requirements for building recertifications have been put in place since 2022. Sr. Construction Manager is supporting the City by providing construction management services for the structures at the 3.5-acre Belafonte Tacolcy Park. Services and responsibilities include: administrative and program management support; reviews and risk assessment reviews; project initiation, monitoring, controlling, and reporting; construction management of projects throughout the bidding, construction, closeout, warranty, and related services phases; assisting in the procurement of architecture, engineering, and construction services under the direction of the City's department of Procurement, and in accordance with governing states law and City ordinances and policies; coordinating with outside agencies and construction authorities having jurisdiction for inspection; and conducting value engineering analyses and constructability reviews.
- **Ronald Reagan Park (formerly PBA Fern Isle Park) Redevelopment:** Sr. Project Manager is supporting the City by providing contract closeout oversight and coordination to assure the contract closeout has met all the terms of a contract and all administrative actions have been completed, all disputes settled, and final payment has been made for the PBA/Fern Isle Redevelopment project. New and improved elements for the newly renamed, 6-acre Ronald Reagan Park include a parking lot with drop-off area, a metal picket fence with vehicular and pedestrian gates, a monument sign on 14th Street, a new concrete Perimeter Walking Path and a River Walk Path with LED lighting, river bioswales for a cleaner environment, a new picnic table area underneath abundant mature trees for shade and comfort, two large, 40'x40' pavilions with BBQ grills, an outdoor fitness station, a multi-use, open play field, wayfinding and historic bridge signage, drinking water fountains, pet stations, trash receptacles, sitting benches, a new bathroom building with a breezeway pass through, beautiful and abundant landscaping with irrigation system, and Art in Public Places elements within the park.
- **Hadley Park Multipurpose Synthetic Turf & Park Improvements:** Sr. Project Manager is supporting the City by providing contract closeout oversight and coordination to assure the contract closeout has met all the terms of a contract and all administrative actions have been completed, all disputes settled, and final payment has been made for the 5.38-acre Hadley Park Multipurpose Synthetic Turf and Park Improvements project. Improvements included a multi-purpose athletic field layout, fencing, fitness stations trail, pedestrian walkways, grading, site amenities, an ADA-accessible ramp, sodding and irrigation.
- **Douglas Park Dog Run and Walkways:** Project management oversight and coordination, as well as construction management, for the new Dog Run and Walkways Enhancement and Replacement Projects. The new Dog Run elements include a designated, synthetic turf, kidney-shaped area for dog exercise within the existing park, connected through a concrete new sidewalk to the existing pathway; a 5-foot-tall chain-link fence enclosure of the dog area on all sides, complete with a double gate for convenient and controlled access and egress; a multi-level drinking fountain; play equipment specifically for dogs; benches and litter receptacle; and landscaping, irrigation and new lighting. The Walkways Enhancement and Replacement Projects include replacement of the existing asphalt walkways with new 6-foot-wide colored concrete paths; replacement of existing benches with new furniture and litter receptacles; and a new sidewalk to connect the new dog run park to the existing pathway.
- **Additional Projects:** Additional projects include the following:
  - Margaret Pace Park Master Plan Walkways and Shoreline
  - Sewell Park Master Plan Walkways and Shoreline

MARY CARDENAS-ALDIR

Construction Engineering & Inspection

YEARS EXPERIENCE

15+

EDUCATION

MS, Law, Washington University, 2018

MS, Environmental Engineering and Science, John Hopkins University, 2011

BS, Law, Universidad Catolica Andres Bello, Caracas, Venezuela, 1998

BS, Civil Engineering, Universidad Santa Maria, Caracas, Venezuela, 1998

TIN

C63558072

CERTIFICATIONS & TRAINING

CTQP Earthwork Construction Inspection – Levels 1 & 2

CTQP Asphalt Paving Technician - Levels 1 & 2

CTQP QC Manager

Nuclear Safety

FDOT TTC/MOT – Maintenance of Traffic, Advanced

FDEP Qualified Stormwater Management Inspector

Ms. Mary Cardenas-Aldir is an accomplished Project Administrator with over 15 years of experience in construction management, including significant expertise working with municipal sector clients on a wide range of infrastructure and building projects. Beginning her career as a field inspector, she has developed a strong foundation in contract and construction document accuracy and quality project delivery. Her experience spans water main replacements, seawall installations, roadway improvements, and capital improvement projects, with responsibilities such as coordinating project schedules, managing compliance with FDOT and municipal standards, overseeing CEI teams, and facilitating project closeouts. Mary's comprehensive knowledge of contract administration, inspection protocols, and regulatory requirements positions her as a valuable asset in managing complex construction projects efficiently.

Experience includes:

City of Miami Gardens, CEI Services for Rolling Oaks Park, Miami Gardens, FL: Project Administrator. This project involves adding a new turn lane and signal improvements at the Rolling Oaks Park NW 183rd Street entrance. CEI oversight was requested by FDOT based on FDOT Permit 2023-C-691-00012 and Construction Agreement 2024-C-691-00012 for Rolling Oaks Park. Activities followed FDOT specifications and included excavation, backfilling, earthwork, concrete work, thermoplastic application, and drill shaft installation. Additionally, signal and signalization were coordinated and inspected according to Miami Dade County DTPW standards.

Town of Medley, Capital Improvement Projects, Medley, FL: CIP Director and former CIP Project Coordinator. Responsibilities included coordinating various improvement projects across construction and design disciplines, processing FDOT LAP within the GAP system, and reconciling work orders for continuing services contracts. Tasks encompassed budget forecasting up to five years, schedule analysis, grant research, and reimbursement coordination with entities such as FDEP, MDC, ARPA, and FDOT. Additional roles included supporting the Building Department with plan reviews, development criteria, utility easements, and Right of Way acquisitions; assisting Code Enforcement with compliance resolutions; providing the Town Attorney with detailed reports for acquisitions; and overseeing procurement activities, including bid preparation and council recommendations. Construction management and oversight ensured successful project delivery.

Seminole Tribe of Florida Tribalwide Construction Engineering Inspection (CEI) Continuing Services Contract, STOF Reservations, FL: Senior Construction Engineering Inspector for ongoing CEI services through a multi-year continuing services contract. Work includes coordinating inspection activities from Notice to Proceed through Final Completion for each task order and daily on-site, full time inspection to determine compliance with contract documents, approved submittals, shop drawings, and permits. Duties also include verification that contractor initiates, maintains, and supervises all safety precautions and programs; maintenance of job site records and permits; project reporting; evaluation and approval of contractor's payment and procedures; change order review and approval; providing interpretations of contract documents; reviewing and responding to contractor's substitution requests; coordinating record drawings with the contractor; and project punch list coordination, including advising on payments, partial release of retention, final payment, release of retention, and release of insurance and bonds.

MASOUD "MAX" GHASEMLOIAN

Construction Engineering & Inspection

YEARS EXPERIENCE

35+

EDUCATION

MS, Project Management, Florida International University, 2010

BS, Mechanical Engineering, Florida International University, 1984

TRAINING & CERTIFICATIONS

Building Inspection Certification, Miami-Dade Community College

Fire Stop Inspector, Certified by 3M, Grace & Hilti

Associate Welding Inspector (AWS)

OSHA 10-Hour Training

OSHA 30-Hour Training

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers

American Society of Civil Engineers

National Society of Professional Engineers

Cuban Engineering Society

Save International

Mr. Max Ghasemloian has more than 35 years of combined experience in the engineering and construction industries. In particular, he has conducted quality control, quality assurance, threshold, and structural inspections for vertical and horizontal projects (including water, sewer and drainage) throughout South Florida, ensuring and verifying that contractors comply with code, specifications, and permitted plans. He also conducted environmental site inspections for Miami International Airport (MIA) and Fort Lauderdale-Hollywood International Airport (FLL) projects that included underground apron utilities. The combined value of these projects is over $5 billion.

Experience includes:

Seminole Tribe of Florida Tribalwide Construction Engineering Inspection (CEI) Continuing Services Contract, STOF Reservations, FL: Sr. Construction Engineering Inspector for ongoing CEI services through a multi-year continuing services contract. Work includes coordinating inspection activities from Notice to Proceed through Final Completion for each task order and daily on-site, full time inspection to determine compliance with contract documents, approved submittals, shop drawings, and permits. Duties also include verification that contractor initiates, maintains, and supervises all safety precautions and programs; maintenance of job site records and permits; project reporting; evaluation and approval of contractor's payment and procedures; change order review and approval; providing interpretations of contract documents; reviewing and responding to contractor's substitution requests; coordinating record drawings with the contractor; and project punch list coordination, including advising on payments, partial release of retention, final payment, release of retention, and release of insurance and bonds. Senior Inspector for the Priscilla Sayen Way project, a development of multi-family residential building within the Hollywood Reservation; the Seminole Park Phase III Homes, RV Hide-Away Area at the Hollywood Reservation; the New Medical Clinic & Public Safety Building, Immokalee Reservation.

MDWASD Ocean Outfall Legislation Program Management Services, Miami-Dade County, FL: Part of the $3.3 billion Ocean Outfall Legislation Program Management team, an 11-year program with 28 capital projects that is the culmination of a 2008 regulatory mandate by the Florida Legislature to stop all wastewater discharge to the ocean by 2025. As a result of this mandate, WASD is implementing system-wide wastewater facility upgrades through the OOL program. Max is inspecting the MEP scope of work. Assigned tasks/projects include Task S10 CM – ST-1B, Task S11 CM – ST-2B, Task S7 CM – ST-2A Inspection Services, Task S9 CM – ST-2D-B, Task S8 15415 – ST-2D-A – SDWWTP – Electrical Distribution Building 3, and Task S12 15482 – ST-2C – SDWWTP – Chlorine Contact and Generation and Wells PS.

The scope of work for the above-listed tasks/projects includes the following:

- Monitoring placement of FP&L, electrical, and signal underground manhole structures and pull boxes
- Installation of 12 high-efficiency 4000 KW generators to power the entire water treatment plant (*this item applies only to ST-2D-A project*)
- Installation of underground electrical, signal, high-voltage, low-voltage structural duct banks
- Installation of electrical equipment and devices, MCCs, RTUs, transformers, panelboards, data communication, power disconnects, lighting, alarm system, emergency devices, lightning protection, exterior light poles, testing and commissioning

Denis Denis, PE, PSM

Senior Project Surveyor

Mr. Denis is a licensed Professional Surveyor and Mapper and a licensed Professional Engineer in Florida and is a proctor for the National Society of Professional Surveyors (NSPS) Certified Survey Technician (CST) program. With over 16 years of surveying expertise in design and construction, Denis has successfully completed numerous projects, ranging from small-scale land surveys to large-scale construction and infrastructure developments. He has worked with multiple Districts of the Florida Department of Transportation (FDOT) and has also served as in-house consultant to FDOT District 6 Surveying and Mapping office. His expertise includes control and right of way mapping surveys; design surveys for engineering projects; route surveys for highways; utility, topographic, and as-built surveys; ALTA/NSPS land title surveys; and construction support surveys for commercial and high-rise building projects.

Education

Bachelor of Business Administration, Florida International University (FIU), 2018

BS, Civil Engineering, Florida International University (FIU), 2013

Professional Registrations

Professional Surveyor and Mapper (PSM), Florida No. LS7017, 2015

Professional Engineer, Florida PE No. 89314, 2020

Florida Real Estate Sales Associate, License No. 3202259

Affiliations or Memberships

Florida Surveying and Mapping Society (FSMS)
American Congress on Surveying & Mapping (ACSM)
National Society of professional Surveyors (NSPS)
Certified Survey Technician (CST) Proctor

Key Projects

Miscellaneous Location Survey Consultant and Right of Way (ROW) Mapping Consultant Contracts, FDOT District 6, *Miami-Dade & Monroe Counties, FL*

Contract Project Manager. The D6 Districtwide (DW) Location Survey and ROW Mapping contracts are on-call contracts with work performed on a Task Work Order (TWO) basis for assignments located throughout Miami-Dade and Monroe Counties. Typical services performed include ROW surveys, sectional retracement, ROW alignment, ROW Mapping, Maintenance Mapping and Control Surveys, as well as horizontal and vertical control, topographic, as-built, and quantity surveys. To date, as the PM for the DW Location Survey Contract C-AF60 and the DW ROW Mapping Contract 20 & 57 C-A730, Mr. Denis has successfully completed 18 TWOs and 55 TWOs, respectively.

ROW Mapping & Monumentation, FDOT District 6, *Miami-Dade & Monroe Counties, FL*

Project Manager | Survey. Colliers Engineering & Design has completed numerous ROW Maps and Monumentation Surveys on a Task Work Order basis under several D6 GEC contracts. Mr. Denis has been in responsible charge for the ROW Mapping and Monumentation Surveys for the following: SR 5 (Overseas Highway) from mile marker 3.8 to 6.5, Monroe County; SR 5 (Overseas Highway) from mile marker 46.8 to 54, Monroe County; and SR 7 (SW/NW 8th Avenue) from SW 8th Street to NW 14th Street, Miami-Dade County.

SR 860 (Miami Gardens Dr) from NW 87 Ave to NW 57 Ave – Design & Control Survey, FDOT District 6, *Miami-Dade County, FL*

Project Manager | PSM. Includes 3D design survey and DTMs performed using Terrestrial Static and Mobile LiDAR methods; alignment retracement; check cross sections; drainage survey; primary horizontal and vertical control networks; recovery of section and ¼ section corners and subdivision blocks; preparation of R/W Control Survey Map.

Monumentation Maps, FDOT District 6, *Miami- Dade County, FL*

Project Manager | PSM. Responsible for establishing project control and Baseline of Survey, surveying section and ¼ section corners and subdivision blocks, monumenting baseline and r/w lines, and preparing R/W Maps and R/W Monumentation Maps.

CRAVEN THOMPSON & ASSOCIATES

Richard Crawford, P.S.M.

Principal Surveyor and Mapper / Survey Project Manager

Mr. Crawford has over forty years of experience within the surveying industry. During this time, his experience has grown to include all types of surveys. Richard is well trained and proficient in the processing of survey data collection from a variety of data collection devices, such as GPS, Digital Leveling, and Conventional Total Stations.

Professional Registrations

- State of Florida Professional Surveyor and Mapper No. LS5371
- FAA Remote Pilot with a UAS Rating Certificate No. 3911523 (2016)

Education

- Associates of Science in Land Surveying, Palm Beach Community College (1994)
- Associates of Arts in Architecture, Broward College (1986)

Years of Experience

- Total: 40; With Firm: 4

Affiliations

- Florida Society of Professional Surveyors and Mappers

Relevant Experience

Stanley Goldman Park | Hollywood, Florida | Principal Surveyor
Mr. Crawford was responsible for a topographic survey of the park. Stanley Goldman Park is located south of Johnson Street, west of the CSX Tracks, north of Hollywood Boulevard and east of the SFWMD C-10 Canal. The proposed improvements consisted of upgrading the lighting, widening the existing paths, providing drainage to the dog park area and improving the conflict points with the adjacent property owner at Johnson Street.

Hugh Taylor Birch State Park Restroom Renovations | Fort Lauderdale, Florida | Principal Surveyor - Mr. Crawford was responsible for a topographic survey of 4 structures within the State Park.

Holatee Trail | Southwest Ranches, Florida | Principal Surveyor
Mr. Crawford was responsible for a topographic survey of Holatee Trail, from Stirling Road to East Palomino Drive, and Luray Road in the Town of Southwest Ranches.

Miramar Regional Park | Boundary Survey Miramar, Florida | Principal Surveyor - Mr. Crawford was responsible for a boundary survey for the Miramar Regional Park Replat, being the outside boundary corners of Parcel A and any improvements within 5 feet of the boundary line.

Broward County Convention Center Expansion & Hotel | Broward County, Florida | Principal Surveyor
Project Surveyor/Field Coordinator. Mapping, Field Coordination, Survey Data Processing This project involves a 525,000 square foot expansion to the Convention Center representing the first phase of a multi-phase masterplan. In addition to the Convention Center, the County intends to include construction of a hotel and related site improvements with the 40-acre parcel.

Potable Water System GIS, &Surveying | Fort Lauderdale, Florida | Craven Thompson was the prime consultant for the Water Consent Order Mapping project, City Project No. 12729. The Project consisted of accurately remapping the City's Water System and correcting the City's GIS. The Project included 750+ miles of water mains 4" and larger, 19,000+ valves, 6,200 fire hydrants, 250 air release valves, and 62,600 meters.

City of Fort Lauderdale GIS and Surveying for Storm Water Master Plan | Fort Lauderdale, Florida | Project Surveyor. Responsible for directing survey data collection, GIS analysis, and assisting others team members. Provided oversight for field data acquisition of storm water infrastructure attributes needed to populate an existing GIS Database.

Sanitary Sewer Mapping & GIS, Control Surveying | Fort Lauderdale, Florida | Principal Survey Project Manager - Responsible for establishing Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory 5,917 Sanitary Manholes, 190 pump Stations, 15 meters, and 80 miles of force mains and their associated valves.

CRAVEN THOMPSON & ASSOCIATES

Raymond Young, P.S.M.

Land Surveyor and Mapper

Mr. Young has forty-three years of experience surveying in South Florida. He has performed both field and office work on a variety of projects both large and small. He is experienced in all aspects of surveying including boundary, topographic, construction layout, ALTA mortgage, as-built, control and location surveys. He has prepared numerous plats and has been involved in the recordation of these plats.

Professional Registrations

- State of Florida Professional Surveyor and Mapper No. LS5799

Affiliations

- Florida Society of Professional Surveyors and Mappers

Years of Experience

- Total: 43; With Firm: 31

Relevant Experience:

Stunson Trail Nature Park, Boundary and Topographic Survey | Oakland Park, Florida | Surveyor - The City of Oakland Park converted an underutilized piece of land used primarily for the storage of stormwater runoff into a park demonstrating the region's various ecological zones with the use of plant selection and educational signage. The site continues to support stormwater runoff, but now connects a string of County and City parks, further providing open space and natural habitats for the community. Stunson Nature Trail is located in the Royal Palm Acres Neighborhood in the City of Oakland Park. Craven Thompson provided Surveying, Civil Engineering, Landscape Architectural services.

Veterans Memorial Park | Sunrise, Florida | Surveyor
In a series of new or renovated passive parks in the City of Sunrise, Veteran's Memorial Park stands resolute in distinction. Anchoring the park at its center is a large hand carved Pennsylvania granite monument. Circulating the park are companion monuments, one for each branch of the U.S. Military branches. In addition, there is an iconic 14,000 square foot playground and plans to expand the park with an obstacle course similar to those used in military training. Following concept design and project bidding; became responsible for construction administration and observation. Craven Thompson prepared a boundary and topographic survey for the site. The survey was used as a base map for engineering and landscape architecture.

Nova Southeastern University School Ballfield Survey | Davie, Florida | Surveyor
Craven Thompson prepared a topographic survey of the existing baseball field located at the southwest corner of S.W. 75th Avenue and Frontage Road, south of the Dolphins training field. The survey included the location of the exterior chain link fence and the dugout structures. Spot elevations within the chain link fence area were taken on approximate 50-foot grid. All elevations collected were relative to North American Vertical Datum of 1988 (NAVD88) and based on National Geodetic Survey (NGS).

Bluesten Park, Vacations & Dedications | Hallandale Beach, Florida | Surveyor
Provided a boundary and topographic survey for the design of Bluesten Park. The survey included the recovery of all boundary and/or Right-of-way monumentation, review of title report documents covering encumbrances upon the property, the location of aboveground visible improvements including all buildings, pavement, slabs, fences, signage, and utility features, the location of trees (2 inches and larger, measured 4 feet aboveground). Additional locations included aboveground visible improvements and pavement striping within the full rights-of way of the adjacent roads (SE 5th Street, SE 7th Street, SE 1st Avenue, Old Federal Highway), including the existing Lift Station near the northeast corner of the site. Topographic elevations of the site were measured on pavement, building finish floors, slabs, and walkways. Topographic elevations were taken on an approximate 50-foot grid within the site and at 50-foot cross-section stations along the adjacent roadways for design purposes.

Raymond Young, PSM (Continued)

CRAVEN THOMPSON & ASSOCIATES

University of Miami - Intramural Fields Survey | **Coral Gables, Florida** | Surveyor
Craven Thompson prepared a topographic survey of the intramural fields on the University of Miami Campus in Coral Gable, Florida. The survey limits included approximately 9.5 acres. The survey showed locations of the median strip in San Amaro Drive, the entrance road on the North side of the Intramural Fields, the sidewalk on the south side of the fields, and to the buildings on the east side of the fields. The survey met all the current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, as defined in Chapter 5J-17, Florida Administrative Code. We found survey control monumentation for the existing right-of-way of San Amaro Drive and tied down all of the improvements and topographic information to. We located all aboveground visible improvements, including pavement, slabs, fences, signs, overhead wires and utility features, within the limits of this survey, as well as the location of paint striping and paint markings for underground utilities.

Dania Beach Municipal Marina Survey | Dania Beach, Florida | Surveyor
Performed a Topographic & Hydrographic survey on the Dania Beach Marina and parking for the City of Dania Beach for design purposes. The survey included hydrographic surveying of the Marina area for proposed dredging and bulkhead replacement. We also included a 3D High-Definition Survey of the existing bridge over New River Sound so that they obtain clearances under the bridge.

Cypress Preserve Park Survey | Sunrise, Florida | Surveyor
Cypress Preserve Park, formerly known as the Oakland Park Boulevard Site (GS-370) was a 7.93-acre vacant site located on the east side of NW 90th Terrace between Oakland Park Boulevard and NW 38th Street. Craven Thompson prepared a boundary and topographic survey for the site. The survey was used as a base map for engineering and landscape architecture.

Margate Sport Park Survey | Margate, Florida | Surveyor
Prepared a boundary and topographic survey of Parcel “A” of the Plat. The survey meets current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, as outlined in Chapter 5J-17 of the Florida Administrative Code. The boundary survey includes the recovery and/or setting of property boundary monumentation, and location of aboveground visible improvements (pavement, utility structures, valves, poles, overhead wires, fire hydrants, etc.). On-site topography was obtained at 25’± intervals, including high and low points, and the edge of canal on the south side. Off-site topography was obtained at 50’± intervals to the back of sidewalk, along Banks Road, back of parking along the west side, and to the north side of NW 17th Street. CTA obtained rim and invert elevations with pipe size and type of material of sanitary sewer and storm sewer structures. The survey was prepared in AutoCAD Civil 3D, drawing file format. Elevations will be based on the North American Vertical Datum of 1988 (NAVD 88) and referenced to a National Geodetic Survey benchmark.

Jaco Pastorius Park Expansion, Gateway & Fountain | Oakland Park, Florida | Surveyor
This project involved the expansion of the park to include a green parking field and infrastructure upgrades for a community garden and City festivals. The expansion included the implementation of a grass parking lot that will be used for overflow parking during the City’s annual festivals that are held at Jaco Pastorius Park. Parking, fencing, sidewalk connections, and park signage were provided for the community garden / farming facilities located at the park.

Oak Hammock Park | Sunrise, Florida | Surveyor
The park contains a walking/jogging trail utilizing pervious materials, multiple custom designed picnic pavilions, pervious parking, expansive open play areas, a large playground which includes rock climbing, and two custom designed restroom facilities as well as environmental educational materials along the boardwalk and at the entrance. The park was planted utilizing 75% native species and utilize recycled materials in all site furnishings. Craven Thompson and Associates, Inc. was the prime consultant responsible for the park design as well as the survey, preparation of the open-space park management plan, the design workshops, conceptual site design, Construction Documents and Construction Management for the City of Sunrise.

Hugo E. Soto, P.E.

Principal Geotechnical Engineer/QA/QC Review

PROFESSIONAL EXPERIENCE

Hugo is a principal and Manager of Regional Geotechnical Services for Terracon's Fort Lauderdale and Miami offices. He is also an authorized project reviewer (APR) for the firm's Florida Division, providing oversight and guidance on project quality, delivery, and other aspects of each project including safety, schedule, budget, and meeting Terracon and client expectations.

Hugo has more than 40 years of expertise in providing geotechnical engineering, construction materials testing, inspection, and consulting services. Geotechnical services include geotechnical design, analyses, and recommendations related to the design and construction of foundations as well as geotechnical exploration programs. He is well-versed in performing analysis and evaluation of field and laboratory data, in-situ soil testing, in-place permeability testing, and geophysical explorations.

Hugo's extensive experience includes: evaluating bearing capacity and settlement for different types of shallow and deep foundation systems; analysis/evaluation of retaining walls, sheet piling systems, slope stability analysis of conventional and reinforced embankments, evaluation of drilled shafts, auger cast piles and driven piles; evaluation, design, and implementation of subsurface improvement programs (i.e. application of dynamic compaction, preloading, compaction grouting, and vibro-compaction techniques); and conducting studies including monitoring vibrations of structures during construction.

PROJECT EXPERIENCE

Pompano Beach Amphitheater - Pompano Beach, FL

Principal Engineer/Quality Assurance/Quality Control (QA/QC) Review. The project consisted of the construction of a membrane roof over the existing Pompano Beach Amphitheater. It was proposed that the roof cables connect to a rigid steel truss that would rest on top of two towers in the front, and at the back, the membrane would be supported by a series of columns (cable-supported masts). The project included truss columns in the front of the structure and cables and mast on the rear of the structure to be supported on piles. Terracon performed subsurface exploration and geotechnical engineering services in 2018 for the proposed roof. The purpose of these services is to provide information and geotechnical engineering recommendations relative to subsurface soil (and rock) conditions, groundwater conditions, site preparation and earthwork, and foundation design and construction. In 2020 the updated loads for the amphitheater roof membrane became available. Per the client's request, Terracon evaluated 16 and 18-inch auger cast piles to support the foundations of the proposed roof membrane.

Pine Crest School, Track and Field Turf - Fort Lauderdale, FL

Principal Engineer/APR/QA/QC Review. The project is located at the athletic field location on the eastern end of Pine Crest School. The project includes the construction of a new track and sod field. Terracon's scope of work consisted of field exploration, laboratory testing, and engineering/project delivery. Results of our field and laboratory programs were evaluated by a professional engineer. The engineer developed a geotechnical site characterization, performed the engineering calculations necessary to evaluate foundation alternatives, and developed appropriate geotechnical engineering design criteria for earth-related phases of the project.

EDUCATION

Master of Science in Geotechnical Engineering, Utah State University, 1980

Bachelor of Science in Civil Engineering, Utah State University, 1979

REGISTRATIONS

Professional Engineer, #36440, Florida, 1985

AFFILIATIONS

American Society of Civil Engineers

Cuban American Association of Civil Engineers

YEARS OF EXPERIENCE: 44

YEARS AT FIRM: 17

Terracon

Hugo E. Soto, P.E. (continued)

Ingalls Park Improvements – Hallandale Beach, FL
Principal Engineer/APR/QA/QC Reviewer. The planned improvements project includes the design and construction of new gazebo structures and new roadways at Ingalls Park, which is located at 735 SW 1st Street in Hallandale Beach, Florida. At the time of Terracon's services, the site consisted of a public park with buildings and large green areas. Terracon provided geotechnical engineering services to the City of Hallandale that included the advancement of 4 test borings to a depth of 10 feet below existing site grades and performing one exfiltration test to a depth of 10 feet below existing grades. The purpose of these services was to provide information and geotechnical engineering recommendations relative to subsurface conditions, earthwork, roadway recommendations, groundwater conditions, foundation design and construction for gazebo structures, and results of hydraulic conductivity tests (K value).

Peace Mound Park – Weston, FL
Contract Manager/Principal Engineer/QA/QC Review. Terracon provided geotechnical engineering services for Weston Parks and Recreation's Peace Mound Park, the site of the Tequesta Trace burial mound. The scope of work included: mobilization/demobilization of a drill rig, Standard Penetration Test (SPT) borings, site reconnaissance, boring layout, and underground utility clearance. Services were provided to the Archaeological and Historical Conservancy, Inc.

Kiwanis Park Nature Trail / Elevated Boardwalk and Metal Canopy – Coral Springs, FL
Principal Engineer/APR/QA/QC Reviewer. The project entailed the construction of a nature trail through an existing wetland that had a significant change in grade. An elevated nature trail boardwalk, supported on piles and metal canopies, would be constructed matching the pathway of the old boardwalk found in the forested area. Construction of a walkway around the outside perimeter of the forested area was also planned. Additionally, the project included the construction of a new metal canopy structure (approximately 20' x 40') to replace two existing mismatched fabric canopies and would maintain the approximate footprint of the existing canopies. Terracon's scope of services consisted of field exploration, laboratory testing, and engineering/project delivery. The firm provided geotechnical engineering recommendations concerning earthwork and the design and construction of foundations for the proposed project.

Maye Frances Jenkins Park Proposed Training Boxing Facility - Lauderhill, FL
Principal Engineer/APR/QA/QC Reviewer. At the time of Terracon's services, the project site was occupied by an existing park with grass, trees, play areas, and parking. The firm performed subsurface exploration (advancement of test borings) and geotechnical engineering services and provided geotechnical engineering recommendations concerning earthwork and the design and construction of foundations and floor slabs for the proposed one-story training boxing facility.

James Bradley Park Improvements – Lauderhill, FL
Principal Engineer/QA/QC Reviewer. Terracon conducted subsurface exploration and geotechnical engineering services for the proposed James Bradley Park improvements project to be located at 3100 NW 16th. The project involves the construction of two structures, a park shelter in the northern portion of the site and a stage canopy at the southern portion of the site. Terracon's scope of work included the advancement of test borings and laboratory testing of the soil samples obtained during the field exploration. The purpose of these services was to provide information and geotechnical engineering recommendations relative to subsurface soil conditions, groundwater conditions, foundation design and construction, and site preparation and earthwork.

Weston Regional Park Soccer Fields - Weston, FL
APR/Quality Reviewer. The site was covered with two soccer fields where the water did not percolate through the turf surface on the fields. Crushed coconut infill was used in the turf. Catch basins in the area captured the runoff. Based on the field observations, the client believed that the crushed concrete infill migrated with the water runoff onto surrounding surfaces. Terracon completed two double-ring tests in each soccer field to determine infiltration rates.

C. Nicholas "Nick" Mata, P.E.

Senior Geotechnical Engineer

PROFESSIONAL EXPERIENCE

Nick is a Florida-licensed professional engineer and serves as a senior geotechnical engineer in Terracon's Florida Division. He is also the Geotechnical Department Manager for the Fort Lauderdale and Miami offices. He works closely with the firm's geotechnical team to advance the market in South Florida. Nick has 13 years of experience including environmental, subsurface investigations, sinkhole investigations, load tests, and a variety of earthwork and construction inspection activities.

Prior to joining Terracon, Nick began his career in Louisiana, where he worked analyzing levee stability for large-scale oil and natural gas pipeline projects. He worked closely with the horizontal directional drill (HDD) team to develop levee crossings to meet the US Army Corps of Engineers (USACE) specifications. In 2015, he worked locally in the private sector, developing foundation solutions for a variety of projects ranging from 5- to 6-story buildings to large 35+ story buildings, landfill redevelopment projects, and other large structures. During this period, he also worked on several iconic projects in South Florida, including the Miami Dolphins Stadium renovation project and PortMiami Cruise Terminal F expansion project.

PROJECT EXPERIENCE

Pine Crest School Track and Field Turf - Fort Lauderdale, FL

Geotechnical Project Engineer/Project Manager. The project is located at the athletic field location on the eastern end of Pine Crest School. The project includes the construction of a new track and sod field. Terracon's scope of work consisted of field exploration, laboratory testing, and engineering/project delivery. Results of our field and laboratory programs were evaluated by a professional engineer. The engineer developed a geotechnical site characterization, performed the engineering calculations necessary to evaluate foundation alternatives, and developed appropriate geotechnical engineering design criteria for earth-related phases of the project.

McTyre Park Cultural Center Amphitheater – West Park, FL

Geotechnical Project Engineer/Project Manager. The proposed project includes the construction of an outdoor amphitheater consisting of a stage, concentric concrete aisles with artificial turf seating for the audience, dressing rooms, restrooms, and a mechanical and electric room. ADA compliance is a priority of the design of the facility. Terracon performed subsurface exploration (advancement of test borings) and laboratory testing and furnished geotechnical recommendations concerning earthwork and the design and construction of foundations and floor slabs for the proposed project.

James Bradley Park Improvements – Lauderhill, FL

Geotechnical Project Engineer/Project Manager. Terracon conducted subsurface exploration and geotechnical engineering services for the proposed James Bradley Park improvements project to be located at 3100 NW 16th. The project involves the construction of two structures, a park shelter in the northern portion of the site and a stage canopy at the southern portion of the site. Terracon's scope of work included the advancement of test borings and laboratory testing of the soil samples obtained during the field exploration. The purpose of these services was to provide information and geotechnical engineering recommendations relative to subsurface soil conditions, groundwater conditions, foundation design and construction, and site preparation and earthwork.

EDUCATION

Master of Engineering, Florida State University, 2012

Bachelor of Science, Civil Engineering, Florida State University, 2011

REGISTRATIONS

Professional Engineer, #82381 , Florida, 2017

AFFILIATIONS

American Society of Civil Engineers

PRESENTATIONS / PUBLISHED ARTICLES

"Miami Dolphins Stadium Renovations – Specialized Foundation Support for a New Roof over and Existing Stadium" presented at the Langan Engineering Geotechnical Workshop, Morristown, NJ, May 2016.

"Digitizing the Florida Artificial Reef Reference Library using ENDNOTE X2" presented at the Florida Artificial Reef Summit, Cocoa Beach, FL, January 2010.

YEARS OF EXPERIENCE 13

YEARS AT FIRM 7

C. Nicholas "Nick" Mata, P.E. (continued)

Kiwanis Park Nature Trail/Elevated Boardwalk and Metal Canopy – Coral Springs, FL
Geotechnical Project Engineer/Project Manager. The project entailed the construction of a nature trail through an existing wetland that had a significant change in grade. An elevated nature trail boardwalk, supported on piles and metal canopies, would be constructed matching the pathway of the old boardwalk found at the forested area. Construction of a walkway around the outside perimeter of the forested area was also planned. Additionally, the project included the construction of a new metal canopy structure (approximately 20' x 40') to replace two existing mismatched fabric canopies and would maintain the approximate footprint of the existing canopies. Terracon's scope of services consisted of field exploration, laboratory testing, and engineering/project delivery. The firm provided geotechnical engineering recommendations concerning earthwork and the design and construction of foundations for the proposed project.

Roosevelt Gardens Park - Fort Lauderdale, FL
Project Engineer/Project Manager. The basketball asphalt courts, located on the southeast quadrant of the property, were an area of concern. A depression measuring approximately 30 feet by 20 feet was present in the northeast corner of the courts. An opening was present in the asphalt, indicating a small void. Terracon provided subsurface exploration, laboratory testing, and geotechnical consulting and reporting services. Terracon performed the advancement of soil borings to explore the area of the depression, adjacent areas, and areas within the adjacent courts. Information and geotechnical engineering recommendations were provided that are relative to subsurface soil conditions, groundwater conditions, site preparation and earthwork, excavation considerations, and pavement design and construction.

Westside Restroom Building and Pavilion Improvements – Coral Springs, FL
Geotechnical Project Engineer/Project Manager. The planned project, located within the Coral Springs Public Works compound (4181 NW 121st Avenue), consists of the construction of a prefabricated restroom building and a prefabricated pavilion. Terracon performed subsurface exploration (advancement of test borings) and laboratory testing and provided geotechnical recommendations concerning earthwork and the design and construction of foundations and slabs for the proposed project. Terracon furnished a report consisting of information relative to subsurface soil conditions, groundwater conditions, excavation considerations, site preparation and earthwork, foundation design and construction, and slab design and construction.

Treasure Island Elementary School (TIES) Community Park – North Bay Village, FL
Geotechnical Project Engineer/Project Manager. The proposed project involves the construction of a new park with amenities, including a boardwalk, athletic fields, and lightly loaded, single-story, open-air structures, gazebos, and canopies. Terracon conducted subsurface exploration (advancement of borings and percolation tests) and geotechnical engineering services and provided preliminary geotechnical engineering recommendations concerning earthwork and the design and construction of the foundations and floor slabs for the proposed project.

Multiuse Trail along US 1/Overseas Highway - Grassy Key, FL
Geotechnical Engineer. The planned project is located along the Overseas Highway from near Mile Marker 58.2 to near Mile Marker 59.9 in Monroe County, Florida. An evaluation was required to determine if the existing subsurface conditions were capable of supporting pedestrians, bikes, and occasional golf carts and utility trucks. Additionally, pavement design recommendations were needed for new asphalt along the trail. Several sections along the northeast of the path required raising the ground to level the existing road elevation. Geotechnical exploration was performed to evaluate subsurface conditions for the proposed improvements. The purpose of the study was to provide geotechnical information and engineering recommendations relative to subsurface soil/rock conditions, groundwater conditions, pavement recommendations, and foundation recommendations for a gravity wall.

Proposed Overhead Airnasium over Brighton Skate Park – Okeechobee, FL
Geotechnical Project Engineer/Project Manager. The proposed construction consists of a new overhead airnasium, including an apron slab, over an existing skate park. Terracon conducted subsurface exploration and provided geotechnical engineering recommendations concerning earthwork and the design and construction of foundations for the proposed project.

Terracon

Resume

Jacobs

SARAH MARRS, PLA, ASLA, LEED

FACILITIES ARCHITECTURE

- Sarah specializes in resilient urban design, strategic site planning, and landscape restoration. She is experienced in leading multidisciplinary teams of planners, engineers, designers and production teams for projects around the globe.
- Sarah has 17 years of experience providing comprehensive design and planning services for public, private, government and military clients. Her career spans all phases of project design including conceptual and master site planning, survey and data analysis, design development and public involvement. She strives to bring forward-thinking sustainability to her design strategies.

EDUCATION/QUALIFICATIONS

B.F.A., Landscape Architecture, University of Illinois, 2007

Professional Landscape Architect, SC #1437; FL #6667722

LEED Green Associate

MEMBERSHIPS AND AFFILIATIONS

American Society of Landscape Architects; South Carolina Chapter; Executive Committee, 2015-2020

American Society of Landscape Architects; Illinois Chapter; Fellowship Committee Chair, 2012-2014

Institute of Transportation Engineers; Affiliate Member; Illinois Chapter; Newsletter Editor, 2012-2014

Relevant Project Experience

Transforming the Scale and Equity of Living Shorelines in South Carolina; The Nature Conservancy, Engagement Strategy and External Communications Task Lead

Design and Construction Guidance for Nature Based Solutions, USACE ERDC EWN, United States, Project Manager**.**

Ocean Terrace Park, Miami Beach, Florida, Deputy Project Manager**.**

First Street Neighborhood Improvement, Miami Beach, Florida. Designer.

Restoration Landscape Design Manual Development; Anne Arundel County, Maryland, Design Team Member**.**

Beaver Ruin Wetlands; Gwinnett County DWR; Georgia, Site Planner.

Maple Leaf Park Stormwater Facility Site Restoration; City of Toronto. Landscape Designer.

Doan Brook Stream and Rockefeller Park Enhancements; Northeast Ohio Regional Sewer District, Cleveland Ohio, Landscape Designer & Historic Preservation.

Phase 2 Study of the Port St. John Regional Advanced Wastewater Treatment Facility Project; Brevard County Utility Services, Project Manager

Northeast Florida Military Installation Readiness Review; Northeast Florida Regional Planning Council; Community & Base Engagement and Adaptation Task Lead.

Military Installation Readiness Review, East Central Florida Regional Planning Council, Florida, Project Manager.

Miami Dade Countywide Resilience Hub Network, Adrienne Arsht-Rockefeller Foundation Resilience Center, Miami, Florida, Project Manager.

Military Installation Resilience Review, Emerald Coast Regional Planning Council, MIRR, Florida. Strategic Advisor.

Jacobs

Climate Change Resilience Review, South Florida Regional Planning Commission, MIRR-1, Florida, Deputy Project Manager

Kennecott Nevada Copper Company (KNCC) Life of Asset Pre-Feasibility Study, McGill, Nevada. Site Planner

Planning Charrette Reports, Field Investigation Reports and DD1391s, Thule Air Base, Greenland. Site Planner

FBI Quantico Campus Design Guide and Construction Standards Guide, Quantico, Virginia. Planner & Landscape Architect

FBI Redstone Arsenal Campus Design Guide and Construction Standards Guide, Huntsville, Alabama. Planner & Landscape Architect

Base Master Plan and Execution Strategy, Muwaffaq-Salti Air Base, Jordan. Site Planner

Tyndall Air Force Base Installation Facility Standards. Panama City. Florida. Planner, Green Infrastructure Designer.

Installation Planning Standards; Camp Redleg; USACE Fort Worth; Dubai, UAE. Planner & Landscape Designer

Real Property Master Plan Update; Arlington National Cemetery; USACE; Arlington, VA. Planner & Landscape Designer

Green Infrastructure Design Services; Parker Street, City of Gainesville, GA. Lead Landscape Architect

Green Infrastructure Design Services; Multiple Projects; City of Atlanta, Dept of Watershed Management, Lead Landscape Architect.

Clean Water Partnership, Corvias, Prince Georges County, Maryland, Landscape Designer.

Resume

Jacobs

Brett Nein , PLA, ASLA, ENV SP

Director, Landscape Architecture

With more than 39 years of professional experience, Brett focuses on urban design, parks and recreation, transportation infrastructure enhancements, mixed-use communities planning, and public transportation sites feasibility planning. Brett has previously served as a Chapter President for the American Society of Landscape Architects. His additional areas of expertise include municipal design and planning; traditional landscape architectural; entitlements for large, comprehensive developments of regional impact; project management; and contract execution. He has experience as an expert witness in landscape and environmental case matters, complementing his design work with issues of public concern.

Key skills | Areas of expertise	▪ Urban Design ▪ Community Planning ▪ Public Transportation & Infrastructure ▪ Project Management
Education | Qualifications	▪ BLA, Landscape Architecture
Registrations | Certifications	▪ Registered Landscape Architect Florida #LA0001156, 1987 ▪ FL-LA0001156 (RLA) current through 11/30/2025 ▪ ISI Envision SP Certified Professional (2023)
Memberships | Affiliations	▪ American Society of Landscape Architects (ASLA) ▪ Urban Land Institute (ULI)
Training	▪ Advanced Building Code Training, ASLA, 2024 ▪ Highway Landscape Design, ASLA/ FDOT, 2019 ▪ PD&E Training & Certification, FDOT CEMO, 2010

Employment history

Jacobs, March 2003 – Present

Relevant project experience

Ivey Road Park, Jacksonville, FL. Project Manager/Principal Landscape Architect

Ivey Road Park is an 11-acre undeveloped tract of land owned by the City of Jacksonville, to be developed into one of the City's premier parks. As a sub-consultant, Jacobs provided full Landscape Architectural services to include development of the conceptual master plan, planting design, hardscape, sports courts, and Irrigation design through final construction documentation, cost estimating, as well as permitting documentation to support the required permit application.

Resume

Riverview Park, Ft. Meade Campus Site Development, Confidential Client, Fort Meade, MD. Principal Landscape Architect. Providing full site design coordination, hardscape, and landscape design for the development of a 2.5 acre 'anchor' campus park for on-base daily agency and civilian users. The program for active, passive, and sustainable features includes an exercise loop-trail, amphitheater, a large shade trellis, farmers market and food trucks service areas, active games and sports courts, a landscape privacy garden, ceremonial plaza spaces, and contextual sculptural elements. Brett was the PM for all Aesthetics & Landscape services with construction documents to be completed in 2024 with bidding and construction to follow

Oakland "Bark Park". Oakland Park, FL. Principal Landscape Architect. Serving as the PM and Principal Landscape Architect, Brett led the team that developed, designed and permitted plans for the City's first Dog Park, located on a 2.5-acre abandoned police and sheriff's training site. Jacobs provided services for the new project including design and construction documents for two large and separate canine fitness courses with 18 exercise stations, new car park and lighting, picnic shelters, a management office kiosk, a pet wash station, as well as unique signage, fencing, and access control features to ensure safe and friendly operations

Semper Fi Memorial Trail - Marine Corps Heritage Museum. Quantico, VA. Project Landscape Architect. Project Consultant and Landscape Architect for design to complete Phase II of trail site development which entails construction of a 1-mile long concrete and brick multi-purpose accessible trail. Analyzed existing site and environmental conditions to develop conceptual trail extension options from the Phase 1 Trail connections, that Jacobs also designed. Currently part of design team efforts to include future memorial and rally sites, two wetland crossings, and complete construction documentation in 2023

James River Trails Master Plan/Flax Mill Creek Trail. HRSD. Newport News, VA. Design Manager. Developed a master trail plan for a new 1-½ mile multi-use trail adjacent to the HRSD James River Wastewater Treatment plant and Flax Mill Creek, leading to the James River overlook. The proposed trail will provide a new connection to access the river edge and provide views across the creek and river and providing new connections to the City's Riverview Farm Park. Path design includes three trail types and was based on field work and preliminary trail alignment developed in November 2019. Construction plans are scheduled for completion to start construction in 2023. Final Mater Plan was developed in CAD and GIS formats to allow for accurate order of magnitude cost estimates

Pentagon West End and 911 Memorial Entrance Plaza Safety Upgrade. USACE-Washington Service District. Principal Landscape Architect. Project focused on reconfiguring the Pentagon west end site area near the 9/11 Memorial entry. Site improvements included green space, hardscape, events area, security upgrades, and roadway realignment. Facilitated USACE and Pentagon Charrette work sessions, validated the programming, and developed Conceptual designs for 3D modeling. The design was completed in 2018, and the project is funded for 2025 implementation.

John Yarbrough Linear Park & Winkler Trail and SUNTrail Feasibility Studies. Fort Myers, FL Design Manager. Jacobs led two 'shared use path' feasibility studies for the City of Ft. Myers, which are part of the FDOT sponsored SUN Trail planned statewide network. These are under a Joint Participation Agreement (JPA) between the City of Fort Myers (CITY) and the Florida Department of Transportation (FDOT). Jacob's work included the Trail Feasibility Studies to determine the viability, potential for implementation, and includes analysis to identify right-of-way impacts; concept design; safety, security, and maintenance; and environmental issues, permitting requirements, and section 4(f) impacts. Conceptual design and development services will identify bicycle and pedestrian connectivity opportunities in the neighborhood and between existing bike and pedestrian facilities. Alternatives and final design concepts for the trails are being developed to ensure safety, security, maintenance issues are addressed in each project.

Resume

Jacobs

Christine M. Crespo Valentín

Senior Landscape Architect Christine has thirteen years of landscape architecture design experience in a range of project types, including Green Infrastructure design for transportation and corridors, Nature-Based Solutions, Resilience site planning and design, corporate site planning and design, and Parks and Recreation design, and green space planning and design . Christine's experience covers multiple aspects of the design process, including concept generation, public input processes, site inventory, site planning, landscape design, irrigation and lighting design, project specifications, and installation inspection. She is passionate in integrating nature with infrastructure to improve climate resilience, context sensitive place making, and equity to improve the experience and function of our communities.

Key skills | Areas of expertise

- Green Infrastructure Planning and Design - Transportation/ Corridor and Nature-Based Solutions
- Resilience Master and Site Planning
- Public - Community Input and Consensus Building Processes
- Parks planning and design
- GIS Story Mapping
- Grant development

Education | Qualifications

- Masters in Landscape Architecture, College of Design, North Carolina State University, 2012
- Bachelors in Agronomy/ Horticulture Concentration, College of Agriculture, University of Puerto Rico Mayagüez Campus, 2009

Registrations | Certifications

- Licensed Landscape Architect, Florida Department of Business and Professional Regulation, 11/28/2018, No. LA6667421, 11/30/2025
- Licensed Landscape Architect, Puerto Rico Department of State, 11/28/2018, No. 128

Memberships | Affiliations

- Southeast & Caribbean Disaster Resilience Partnership (SCDRP), 2025 Status (Active)
- Associate Member, American Society of Landscape Architects (ASLA), 2025, Status (Active)
- Member, Colegio de Arquitectos y Arquitectos Paisajistas de Puerto Rico (CAAPPR), 2025, Status (Active)
- Licensed Member, Instituto de Arquitectos Paisajistas de Puerto Rico (IAPPR), 2025, Status (Active)

Languages

- English (mother tongue)
- Spanish (mother tongue)

Employment history

- July 2022 to Present; **Jacobs**; Tampa, FL; **Senior Landscape Architect**

Resume

- March 2017 to July, 2022; **WGI, Inc.,** Tampa, FL, **Project Manager**
- March 2017 to February; 2015, **KCI, Inc**, Ft. Lauderdale, FL, **Project Manager**
- February 2015 to August 2013; **Jacobs Engineering** Philadelphia, PA, **Landscape Architect**
- August 2013 to July 2012; **LandArt Landscape Architecture**, Orlando, FL, **Associate**

Relevant project experience

Miami-Dade Countywide Resilience Hub Network Strategy, Miami-Dade County, FL, Current (July 2023 – February 2024)

Client: Adrienne Arsht Rockefeller Foundation

Role on project: Task Manager, Planner, Landscape Architect

Responsibilities: As the Master Plan Task lead, Christine oversaw the development of the interconnected resilience hubs and pods network to be established and the development of the site-master plans for three hubs within the network. In addition, Christine prepared and presented presentation materials, provided technical input in master plan development, in close coordination with the full project team.

Scope, description, and value: The project initiative was developed by the Atlantic Council of the Adrienne Arsht-Rockefeller Foundation Resilience Center and works directly with local stakeholders to support community needs and bolster resilience. Local stakeholders include residents, community-based organizations, Miami-Dade County, the City of Hialeah, the Sweet Home Missionary Baptist Church, and the neighbors in Miami Overtown, Hialeah and West Perrine. The Resilience Hub Network Strategy details the foundation of research, analysis, and tools that were built by Jacobs's resilience planners using publicly available data, peer reviewed by local academic researchers on the project team, evaluated by social equity experts and local engineers, and informed by Urban Sustainability Directors Network guidance. Once the foundation was built, the community input process was initiated to verify the accuracy of the data, and prioritized method for collecting information on issues and co-creating the programs for each Hub. The Planning Guidebook utilizes the research, community input, and tools of the network strategy to lay out a step-by-step guide for community members, organizations, and municipal offices to plan their own resilience hubs. Planning Level Estimate Cost: $1M

Herman Massey Park Rehabilitation, Tampa, FL, (June 2019 to June 2022) *

Client: City of Tampa, Parks and Recreation

Role on project: Project Manager

Responsibilities: As project manager, Christine was responsible for community engagement, cost estimation, design, and coordination with stakeholders.

Scope, description, and value: Herman Massey Park is an urban downtown 'pocket park' located in the centre of the Downtown River Arts Neighbourhood that required revitalization. Just under half an acre in size, the Park program was developed to perform dynamically with multi-functional areas to make the most use of the limited space. Project scope included four public/community engagement meetings with GIS Story map systems of information and surveys. Information gained during community engagement efforts and client meetings, guided the development of four concept designs, further refined and finalized as complete construction documents. Construction of the project is scheduled for 2023-2024. The design fee totalled $170,000 with an estimated $1, 300,000 construction fee.

CRAVEN THOMPSON & ASSOCIATES

Nicole Pastre, P.L.A.

Landscape Architect

Ms. Pastre's responsibilities include site planning, landscape and hardscape design, tree removal and relocation plans in AutoCAD and presentation graphics, utilizing knowledge of local and state regulations involved in land development on a range of projects. Coordinating with Clients, City officials, and other consultants to obtain project input and approvals. Has direct client contact. Preparation of color renderings of landscape plans for presentations.

Professional Registrations

- Professional Landscape Architect, State of Florida No. LA6667397 (2018)

Education + Training

- Bachelors of Landscape Architecture, University of California, Davis (2005)

Years of Experience

- Total: 19; With Firm: 5

Relevant Experience

Caporella Park Enhancements | Tamarac, Florida | Landscape Architect
Craven Thompson teamed with Walters Zackria Architects to provide civil engineering, landscape architectural, and construction administrative services. The site is approximately a 9.3-acre lot (3.73 acres surface area and 5.57 lakes). Enhancements included: Native landscaping on at least 30% of the site, an 8' multi-use concrete path with one central fitness station, a 1,000 S.F. restroom/storage facility, A 4,000 sf playground including safety surface & shade structure, picnic shelter, benches, grills, water fountains, non-motorized boat launch with floating boat dock, 2,500 SF splash pad, expansion of onsite parking area, irrigation & landscape improvements, lighting, video and security system, and a fiber network infrastructure. The City of Tamarac was awarded a $50,000 Florida Recreation Development Assistance Program Grant for this project.

Mara Berman Giulianti Park | Hollywood, Florida | Landscape Architect - Redesign and update of a popular community park and playground in the City of Hollywood to incorporate amenities such as a new, accessible playground, a walking/jogging trail, a splash pad, a new picnic shelter and potential dog park.

Stunson Nature Trail Viewing Platform | Oakland Park, Florida | Landscape Architect - Developed construction documents for the installation of a wooden viewing platform and boardwalk within the Stunson Nature Trail Park. Project included landscape design, hardscape design and details for the platform and boardwalk system.

Indian Creek Greenway Project | Miami Beach, Florida| Landscape Architect
The project includes the restoration and enhancement of the landscape buffer with the introduction of a diverse, low-maintenance, tropical, Florida Friendly, naturalized, and native plant pallet that encourages the return of the area's natural fauna, and promotes the ecology of the waterway for the benefit of the general public. We included a continuous pedestrian connection from the 41st Street bridge southward to the 29th Street pedestrian bridge and onward to form a connection at 25th Street and Collins Avenue. The plan restores vegetation to buffer noise and light pollution and to increase privacy for the residents of the Flamingo Dr. Neighborhood

Vista View Park Splashpad | Broward County, Florida | Landscape Architect
Craven Thompson & Associates provided professional consulting landscape architectural services for the design of a splash pad at Vista View Park. Craven Thompson was a sub-consultant to Thompson & Associates under a contract with Broward County Parks and Recreation.

Monarch Lakes Park, Phase II | Miramar, Florida | Landscape Architect - Project consists of a custom splash pad design, picnic shelter addition and parking lot expansion for an existing park for the City of Miramar. Landscape architectural services include site planning, hardscape and splash pad design, landscape design and code compliance.

Sunset Strip Passive Park | Sunrise, Florida | Landscape Architect - Just under 2 acres, this passive park is located along an idle section of roadway within a single-family neighborhood. The program elements at the park include playground, open play fields, walking path, picnic areas, and restrooms. The landscape concept intends on relocating a series of large royal palms to create a sweeping alley of tall palms reinforcing the shape of the open space design. With a mostly native plant palette the park will provide passive recreational facilities with an ecological component. Responsible for the site plan, basic architectural feature, and landscaping.

Nicole Pastre, PLA (Continued)

Sawgrass WWTP Irrigation Design | Sunrise, Florida | Landscape Architect
Ms. Pastre prepared irrigation plans and specifications for the Wastewater Treatment Plant.

SW 48th Avenue Complete Streets Project | West Park, Florida | Project Landscape Architect
The project involves approximately 7,600 linear feet of right-of-way (not including Mary Saunders Park). Improvements that may be included are as follows: paving (milling & resurfacing and reconstruction), complete street elements, such as textured pavement, raised crosswalks, raised intersections, and speed lumps, ADA compliant sidewalks, bicycle lanes, street trees, landscaping, limited irrigation, signage, drainage and pavement marking & signage. This is a Broward County Surtax Project.

Plantation Landscape Peer Plan Review | Plantation, Florida - Review Landscape Architect
Ms. Pastre provides landscape consulting services in regards to Landscape plan reviews for the City of Plantation. The services provided include full landscape reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.

Miramar Parkway & Blvd. Median Enhancement | Miramar, Florida| Landscape Architect
The project is along Miramar Parkway from the Florida Turnpike to Palm Avenue and along Miramar Boulevard from University Drive to Palm Avenue. The project includes landscaping and hardscape for two main thoroughfares through the City of Miramar. The medians lack aesthetic appeal and require various beautification enhancements. This is Phase I of a multi-phased project

Florida's Turnpike - Glades to Atlantic Widening | Palm Beach County, Florida | Landscape Architect
Provided landscape architectural services for the widening of a 6-mile portion of Florida's Turnpike. Services included analysis and development of a Tree Removal Plan, Landscape Opportunities Plan and Construction Documents.

Sunrise City Center | Sunrise, Florida | Landscape Architect
Provided site design services for the new Sunrise City Hall complex, including hardscape, landscape and irrigation design. Project included a new plaza space, public art, parking garage and amphitheater design. Prepared conceptual design renderings and construction documents and assisted with permitting through the City of Sunrise and Broward County. Worked in conjunction with the City Project Manager and the Architect, including plan processing and meeting with the City Urban Forester.

Gulfstream Village | Hallandale Beach, Florida | Landscape Architect
Project included the redevelopment of the restaurant and retail portion of Gulfstream Village, including conversion of streets into curb-less, pedestrian friendly thoroughfares, passive plaza spaces with integrated art and other activities, outdoor restaurant and bar space, fountains and family-friendly play areas. Services included hardscape, landscape and irrigation design, including the preparation of conceptual renderings and construction documents. Assisted with permitting through the City of Hallandale Beach and Broward County, as well as plan processing.

Gables Station | Coral Gables, Florida | Landscape Architect
Large scale, multi-use commercial and residential project in Coral Gables. Services included site and common area design, multi-use trail and greenway planning (the City of Miami Underline project, in conjunction with the City's Master Plan and the Friends of the Underline), development of full landscape plans for ground level and amenity levels, irrigation plans, tree relocation plans and extensive permitting through the City of Coral Gables, Miami-Dade County Department of Transportation and FDOT. Helped oversee the plan submittal and processing for site plan approval through building permit, through the various agencies/municipalities mentioned as well as stakeholder groups. Project is currently under construction and seeking LEED Gold certification.

City of Pompano Beach Streetscape Improvements | Pompano Beach, Florida | Landscape Architect
Project entailed beautification, increasing walkability and safety along two busy streets in Pompano Beach, NE 33rd Street and East McNab Road. Provided tree protection and disposition plans, landscape design and irrigation design, including permitting through the City. Worked closely with the City Project Manager and the City Urban Forester to develop project design intent and obtain site plan approval.

CRAVEN THOMPSON & ASSOCIATES

Nathan A. Raimondo

Landscape Designer

Mr. Raimondo has operated as project manager to oversee and contribute to production work of construction documents and deliverables. Conducted tree surveys using GPS handheld data equipment, as well as tree sampling and inventory. Coordinated with clients and municipal reviewers to ensure designs were in compliance with local regulations and zoning conditions.

Key contributor in specialized projects with the Defense Logistics Agency Fire Protection Group. These contributions ranged from significant on-site field project mapping exercises. This field work provided the critical data used to develop floor plans and three-dimensional models of various military facilities and structures.

Education + Training

- Bachelor Degree in Landscape Architecture, University of Georgia, College of Environment & Design, Athens, GA (May 2011)
- HOPE Scholarship Recipient: 2006 - 2010, University of Georgia, College of Environment & Design, Athens, GA (2006-2010)

Years of Experience

- Total: 13; With Firm: 3

Computer Skills

- AutoCAD, LandFX, Revit, Sketchup, Adobe Photoshop/InDesign, Microsoft Word, Excel, PowerPoint

Relevant Experience

Sunset Strip Passive Park | Sunrise, Florida | Landscape Designer
Facilitated in the design of tree disposition, hardscape and landscape plans, as well as the development of construction documents for a residential passive park. Site amenities included a looping walking trail with bench seating, bike racks and bike repair station, decorative fencing with entry gates, and entry monument sign. Coordinated with Florida Power & Light to ensure access to overhead powerlines and additional utilities.

Mara Berman Giulianti Park | Hollywood, Florida | Landscape Designer
Redesign and update of a popular community park and playground in the City of Hollywood to incorporate amenities such as a new, accessible playground, a walking/jogging trail, a splash pad, a new picnic shelter and potential dog park.

Golden Shores Urban Trail | Sunny Isles Beach, Florida | Landscape Designer - Conducted on-site tree inventory and analysis to aide in the design of a multi-use urban trail. Construction details included a concrete path with trail markings, a decorative pedestrian crosswalk, and wooden privacy fencing.

NSU Soccer Stadium Improvement Plans | Davie, Florida | Landscape Designer
Coordinated with the civil engineering team to provide site improvement plans to upgrade the former Miami Dolphins training facility to a women's professional soccer field. Improvements included building renovations with outdoor open plaza, bleacher seating to accommodate 5,000 attendees, portable concession area, additional sidewalks to improve pedestrian circulation, and access to event spaces.

Coconut Creek 441 Artwalk | Coconut Creek, Florida | Landscape Designer
Located north of the Sawgrass Expressway, between the east side of US 441 and NW 61st Street, and stops at the Club Caribe entrance road. The art work is a series of Butterfly Metamorphosis: Caterpillar, Chrysalis, and Butterfly. Craven Thompson provided landscape design, permitting, bidding, and construction administration for this project.

Shotgun Road Subdivision | Davie, Florida | Landscape Designer
Designed tree protection plans and full landscape construction document packages for a 151 single family home development. Amenities include a multi-use path with bench seating, horse trails, a playground, and decorative landscaped berms along the entry drive.

Aviara West | Pompano Beach, Florida | Landscape Designer
Assisted with the design and development of tree protection, landscape, and site plans for a multi-family residential community. Amenities included a walking trail, pool deck with hot tub, and a dog park. CPTED (Crime Prevention Through Environmental Design) Plans were also developed to ensure safety, security, and proper maintenance of the site.

Resume

Jacobs

Jason M. Bird, CFM

Years of Experience: 24 years as of 2024
Years with Firm (CH2M/Jacobs): 8 years as of Nov. 2024

Jason Bird is a seasoned civil engineering professional with experience in commercial, residential, public open space, utility, stormwater and transportation projects from feasibility studies to conceptual planning, through design, permitting, and construction administration. His focus on water resources, water conservation, infrastructure assessment, green infrastructure and sustainability, including LEED and ENVISION evaluations for municipal, master planned communities, and US federal facilities. He has applied his knowledge of infrastructure planning and design including climate scenario development to risk and vulnerability evaluations and development and prioritization of adaptation strategies to mitigate current and future threats to inform capital investment and enhance the resilience of built and natural assets for our communities.

Education

- Associates of Arts Degree from Central Florida Community College 2001
- Course work in Civil Engineering with Construction Management focus, University of Central Florida 2001-2004

License/Certificate

- Certified Floodplain Manager (2018-current) #US-19-10971

American Water Infrastructure Act (AWIA) 2018 (NMB, Fort Lauderdale & JEA), Florida.
Resilience Lead. As part of the EPA mandate, led the natural hazard assessment for the Risk and Resilience Assessments (RRA) and Emergency Response Plans (ERP) for multiple water utilities in Florida and across the US. This all-hazards approach reviewed critical assets to reduce risk, improve reliability and maintain system operations against all potential threats identified for each facility and utility system. [2019-2020]

Key West 10th Street & Harris, Community Flood Mitigation Project, Key West, Florida.
Resilience Advisor. Evaluated stormwater management and flood mitigation system for low lying residential community subject to frequent rainfall and tidal flooding. Performed LOS and alternatives analysis to inform phased solution to support incremental improvements capitalizing on immediate needs and available grant funding with future phases positioned to address future sea levels and increasing flood elevations. [2022-23]

City of Key West, Sea Level Rise Policy, Key West, Florida.
Resilience Lead. Performed climate science review and tidal conditions analysis to inform development of flood scenarios and boundary conditions for future conditions stormwater modeling and minimum design criteria for critical infrastructure like roads, sea walls, utilities, and broader City land development regulations. [February 2021 to August 2021]

First Street Pump Station and Neighborhood Project Design, Miami Beach, Florida.
Resilience Lead. Development of basis of design and conceptual design to meet City objectives related to sustainability and resilience including establishing minimum road elevations using the new City road raising policy, developed by Jacobs under separate task order, and incorporating future tidal and rainfall projections into project LOS analysis to inform project design and incorporation of blue-green infrastructure for water quality to enhance community and environmental benefits. Project also includes improvements for potable water distribution, wastewater collection, stormwater management, urban tree canopy and aesthetic enhancements. [2021-2023]

Jason M. Bird Resume

Post Disaster Recovery and Reconstruction Plan, City of Key West, Florida.
Resilience Lead. Through stakeholder engagement and cross-department collaboration, worked alongside City to develop a vision for the City of Key West post disaster. The vision and recovery plan is focused on key actions and process to prepare for, respond to and recover from a major storm impact to guide the City's actions and investment in critical infrastructure and the rebuilding of the City, through a resilient lens. [2020-2021]

Integrated Sea Level Rise Mitigation and Stormwater Management Plan, City of Miami Beach, Florida.
Resilience Lead. Development of a multi-disciplinary flood mitigation plan and policy focused on reducing flood risk in the City of Miami Beach through a comprehensive and integrated approach to managing water resources. This project included updating the City's street raising policy to accommodate future sea levels while maintaining access to private properties, and development of a neighborhood project prioritization methodology that factored in numerous City infrastructure needs including improvements to critical services such as potable water distribution, sanitary sewer collection, stormwater management, transportation access, and environmental and social system improvements such as sidewalks, street trees and BGI for stormwater quality treatment. The process involved a robust public awareness and stakeholder engagement campaign to build public trust through an inclusive and transparent process. [2019-2020]

North Miami Beach Utility Masterplan, Florida.
As Resilience task lead, incorporate risk reduction, increased reliability, enhanced operational continuity and resilience to climate hazards into utility masterplan, minimum design criteria and CIP decision support framework with focus on existing and future climate hazards. Included review of Hurricane Irma impacts from 2017 storm season. [2017-2019]

Road Elevation Policy, City of Miami Beach, Florida
Resilience Task Lead. Developed adaptive and flexible road elevation policy for the City that included design criteria based on probability of flooding and by road classification, including options for road system hardening when desired elevation could not be met due to elevation of existing private properties adjacent to road system. Harmonization of roadway with private properties is included that ensures safe ADA, pedestrian and vehicular access is maintained for all residential and commercial properties, while managing stormwater to reduce flood risk. [2019-2021]

Nature Based Coastal Defense Alternatives Analysis, The Nature Conservancy, Miami Dade County, Florida.
Evaluated four select sites along Biscayne Bay coastline for level of protection against storm surge, provided by nature-based systems to determine ROI for investment focused on multiple benefits. Project included modelling multiple climate scenarios including sea level rise and surge events for 2040 and 2075 to understand system performance and perform alternatives cost benefit analysis for built and nature based coastal protection. [2018-2019]

Jacobs

Brett Rowan, PE
Structural Task Lead

Education
BS, Civil Engineering, University of Florida, Gainesville, FL, 2008

Registrations
Florida Professional Engineer (#77608)

Alabama Professional Engineer (#39367)

Years of Experience
17

Brett has more than 17 years of experience in a wide range of structural engineering and construction management projects. His projects have ranged from multistory office infrastructure, aviation projects, multifamily residential space, all the way to pedestrian bridges and interstate tolling infrastructure. As discipline director for Jacobs Orlando, Brett oversees all aspects of projects from start to finish. He has deep knowledge of steel, concrete, masonry, precast, prestressed, pre-engineered metal buildings, and post-tensions construction systems.

Relevant Project Experience

Northrop Grumman, Headquarter Buildings, Melbourne, FL; Structural Engineer of Record. This project was a three story, 200,000 square foot mixed use office space including a multitude of different secure rooms, auditoriums, break rooms, open and closed office space. Building was a steel structure with composite action beams, utilizing precast and storefront skin. Brett was the lead designer for the primary structural framing members and foundations. Brett managed contributing staff from across the US working on project.

Jacksonville Aviation Authority, Jacksonville International Airport Garage Structural Assessment, Jacksonville, FL; Structural Engineer of Record. This project entailed providing the structural assessment of existing precast concrete garage structure for a report on projected lifespan and possible repairs. Tasks included creating structural construction documents for strengthening and reinforcing as well as repairing the deteriorated structure and ensure waterproofing integrity to maximize the lifespan of the structure. Brett's responsibilities included providing structural observation and report writing, structural calculations and analysis, creation of construction documents, and construction administration duties.

Monroe County Depart of Aviation, Key West International Airport Expansion, Key west, FL; Lead Structural Engineer. The Scope entailed creating an RFP Package for the renovations and expansion to the existing structure. Brett's responsibilities involved providing the planning and preliminary design of approximately 50,000 sf expansion of the existing terminal modernizing the user experiences and increasing performance and efficiency of staff. Structural design focused on maximizing open area and resiliency of exposed structure.

Jacksonville Aviation Authority, Jacksonville International Airport Garage Canopy Rehab., Jacksonville, FL; Structural Engineer of Record. The Scope entailed planning and making modifications to the existing canopy and exterior aesthetic features of the airport. Brett's reviewed the existing conditions of exterior steel canopies and fabric coverings and recommended the repairs and modifications required to restore the structural integrity. Brett also worked with the airport to program repairs into fiscal year budgets as well as develop MOT and passenger diversion techniques to minimize the impact on all patrons.

Monroe County Department of Aviation, Marathon International Airport Hangar Building Modifications, Marathon, FL; Structural Engineer of Record. The Scope entailed completing the hurricane assessment of several hangars and other support buildings. Brett recommended and designed the structural repairs and upgrades to the site lighting elements. In addition, Brett oversaw a team of engineers who performed a rigorous review of the existing damage structures and designed appropriate repairs to restore functionality and operation. Brett also worked with an electrical engineer to modify the site lighting for enhanced nighttime visibility and functionality.

FDOT District 6, FIU Pedestrian Bridge, Miami, FL; Structural Peer Reviewer. Brett is responsible for the review of structural drawings submitted for the design phase submittals for the re-design of the FIU pedestrian bridge. With student housing and residential towers located on the north side of S.R. 90/SW 8 Street, the bridge will provide a safe and accessible crossing to pedestrians in this busy traffic area, to and from the Modesto A. Maidique Campus of FIU located on the south side of S.R. 90/SW8 just west of SW 107 Avenue. The aesthetics for the bridge will be coordinated between FDOT and FIU. The design of the bridge started early this year (2021) and is expected to last two years. Construction is anticipated to take approximately two years.

Jacobs

FDOT District 5, State Road 400 (I-4) Sandlake Road (Segment 2), Florida Department of Transportation, Orange County, FL; Structural Team Project Manager and Structural Engineer of Record. Brett was responsible for the structural design for six lit aesthetic vertical elements with planters along the Sandlake Road and I-4 interchange and managed the structural design coordination with the design team. In addition to the aesthetic landmarks being proposed, a 3.6-mile segment of I-4 is being reconstructed in Orange County to provide additional express lane capacity. This segment involves the reconstruction of the existing six-lane urban interstate to a ten-lane divided section, which includes two tolled express lanes in each direction, resulting in a total of ten lanes plus auxiliary lanes. The project also includes a systems-to-systems interchange and diverging diamond interchange and accommodates required stormwater treatment with proposed pond sites along the corridor. In addition, the arterial roads parallel and connected to I-4 will provide traffic relief on the local road network.

FDOT District 1, SunTrax Autonomous Vehicle Testing Facility, City of Auburndale, Polk County, FL; Structural Team Project Manager and Structural Engineer of Record. Jacobs provided program management and design services for this large-scale facility for testing connected and autonomous vehicles in controlled environments. SunTrax includes multiple outdoor testing circuits and over 100,000 SF of buildings. The Jacobs building team designed a signature Arrivals and Conferencing Center, Administration Building, Observation Tower, and Fueling, Charging, and support facilities. Brett's was the team Project manager on the Observation Tower and as well as Engineer of Record on the Arrivals and Conferencing, Administration, and Tower structures. Structural design included structural steel, concrete, and cold-formed steel to create custom and unique amorphic structures.

FDOT District 5, State Road 400 (I-4) (Segment 1), Florida Department of Transportation, Electronic Tolling Facilities and Aesthetic Improvements, Orange County, FL; Structural Team Project Manager and Structural Engineer of Record. Brett was responsible for the structural design of nine toll equipment buildings and several aesthetic improvements including the design of vertical elements and planters at several intersection locations throughout the corridor. Brett also interfaced with the civil designers, bridge designers, and geotechnical consultants for laying out locations and designing connections of all structures. The project also involved reconstructing SR 400 (I-4) from an existing 6-lane roadway to a 12-lane section that consists of 4 special use lanes and 6 general use lanes with auxiliary lanes from N. of Kennedy Blvd. to N. of Central Parkway. Access to the special use lanes will be provided by slip ramps North of Wymore Rd. and dedicated special use ramps from Central Parkway. The project also includes the I-4 interchanges with those roads. The project is being delivered as a Public Private Partnership (PPP).

Publix Regional Super Market Chain, Renovation and Self Development Program, Lakeland, FL; Structural Engineer of Record. Renovation and expansion of existing supermarkets, and the client's self-development program (which includes new stand-alone supermarkets, shopping center complexes, and district office renovations) throughout Florida, Georgia, Alabama, and South Carolina. Responsibilities included client management and range from initial scope of work development through complete contract documents and contract administration. All programs are treated as Design/Build with a partnering approach between the client, Jacobs, and a pre-qualified list of contractors.

Cumberland Farms, Various Stores Statewide, FL; Structural Engineer of Record. The scope entailed designing new convenience stores throughout the coast of Florida utilizing site specific design variations to implement program standards. Stores vary in construction type but typically utilize masonry walls with pre-engineered wood or metal trusses. Brett's responsibilities included providing the structural design and site adaptation, client management, specification writing, and construction administration duties.

Banyan Development Corporation, Banyan Court and Banyan Cove Apartment Complexes, FL; Structural Engineer of Record. The scope entailed designing a 175,000 square feet of multi-story multi-family residential complexes located on the east coast of Florida. Buildings consisted of masonry, concrete, and conventional wood framed design elements. Brett was the lead structural designer on the project and oversaw the production of all aspects of the project. Brett's also managed the internal team and interfaced with outside consultants to create effective and efficient design.

Jacobs

Kelvin Chang, PhD, PE, LEED AP BD+C

Mechanical Task Lead

Education

PhD, Mechanical Engineering, University of Florida

MS, Mechanical Engineering, University of Florida

BS, Mechanical Engineering, University of Florida

Registrations/Certifications

Professional Engineer: FL, No. 85410

Professional Engineer: KY, No. 37816

LEED AP BD+C & WELL AP

Years of experience

10

Kelvin is a sustainability-minded mechanical engineer with design experience in HVAC, hydronic piping, plumbing, and refrigeration design for commercial, public, DoD and retail facilities. His projects have ranged from supermarket renovation to LEED administration on large government facilities.

Relevant Project Experience

Amtrak Car Wash Renovation, Hialeah, FL | Mechanical/Plumbing Design. A renovation and expansion of existing car wash capabilities. Kelvin was responsible for scope of work as well as overseeing the assessment of existing systems, design, and construction document development for the car wash mechanical and plumbing systems. The work performed was site investigation and preparation of existing condition reports to help Amtrak identify the best course of action, including working with vendors to find a cost-effective solution. The design included hydraulic systems, domestic water, waste with neutralization, and a reverse osmosis water treatment system. Upgrades were also made to the collapsed waste mains in this project.

JAXEX Renovation at OPS Building, Jacksonville Executive at Craig Airport, FL | Plumbing Design. This project entailed the plumbing design for operations building at the Jacksonville Executive Airport. The building is approximately 6,000 sf and houses offices, conference rooms, and support workshop to support the JAA personnel. Kelvin's involvement included both the plumbing design and HVAC project management.

Army Aviation Support Facility (AASF), Virginia Army National Guard, Sandston Training Site, VA | Plumbing Design – Life-cycle Cost Analysis. This project entailed the plumbing design for the AASF at the Jacksonville Executive Airport. The building is approximately 6,500 sf of admin office and a 11,000 sf hangar with an optional addition. Kelvin's involvement included the plumbing design which included drainage and domestic water to support the hangar and admin spaces. The hangar utilizes emergency fixtures with tempered water and the admin area houses support spaces like offices, restrooms, and shops with common plumbing fixtures. The design included domestic booster pumps and gas boilers to support radiant slab heating, as well. Kelvin also created the studies comparing different design options in a life-cycle cost analysis – in the SD phase. The study compared different HVAC options, including DOAS with ERV and VRF systems with costing.

Service Plaza Renovations, Florida's Turnpike Enterprise (FTE), Various Locations, FL | LEED Energy Modeling. This project involved the renovation of service plazas for FTE. Each site incorporates differing sustainability solutions. Kelvin's impact was in the LEED certification process, working with reviewers to communicate sustainability features and shape the energy model to reflect the building's construction. The entire renovation / rebuild project is estimated at more than $120 million and resulted in multiple LEED awards.

SunTrax Autonomous Vehicle Campus, Florida's Turnpike Enterprise, Polk County, FL | Project Designer/Sustainability Lead. Kelvin designed the observation tower, which is the site's highest vantage point created to help observe vehicles throughout the facility. The tower will also hold delicate measurements and communication devices to help serve the site. Kelvin is also actively working to certify five buildings under the Florida Green Commercial Building Certification (FGBC). Scope includes design and sustainability compliance efforts for the design phases of SunTrax infield, a 200-acre area surrounded by a 2.2-mile test track.

St. Cloud Operations & Maintenance Center, Orlando Utilities Commission (OUC), St. Cloud, FL | Sustainability. Kelvin assisted in the sustainability approach, providing early analysis to help OUC decide its sustainability targets. Advanced energy modeling techniques were used to ensure buildings would meet performance targets. OUC foresees additional growth in the forthcoming years, making the need for this new facility pivotal in support of electrical operations. The initial phase includes a fleet maintenance facility, a fueling facility, a warehouse, offices, emergency operations support, and site improvements.

Jacobs

Regional Supermarket Chain Renovation and Self Development Program, Confidential Client, Lakeland, FL | Mechanical/Plumbing/Refrigeration Designer. Kelvin's responsibilities include client management and range from the initial scope of work development through complete contract documents and contract administration. All programs are treated as design-build with a partnering approach between the client, Jacobs, and a pre-qualified list of contractors. The program includes renovation and expansion of existing supermarkets, and the client's self-development program, which includes new standalone supermarkets, shopping center complexes, and liquor stores, throughout Florida, Georgia, and South Carolina.

Regional Training Institute (RTI), Army National Guard, Sea Girt, NJ | LEED Certification. Kelvin's developed energy models to demonstrate energy efficiency and worked with team members to create credit documentation. The buildings were awarded LEED Gold for new construction at the end of the project. It was awarded LEED Gold at the conclusion of the project. This project included certification of a new construction 49,000 SF administration/education building and 37,000 SF billeting building. The RTI buildings incorporated sustainable design practices, including efficient chilled water HVAC equipment, new variable speed pumps, reduced lighting loads, demand control ventilation, airside economizer, and solar domestic hot water panels.

Van Voohis Elementary School, U.S. Army, Ft. Knox, KY | Sustainability Lead/Plumbing Designer. Kelvin was a lead designer for plumbing and assisted in the LEED certification process, including the energy model. This two-story, 100,000 SF school will house 510 students and is pursuing LEED certification. The school is state-of-the-art and was designed with high-efficiency boilers and water-source heat pumps. The design includes an extensive sanitary system, full commercial kitchen to meet the needs of the students, and an active Radon relief piping system. At present, the project is approaching the beginning of construction and Kelvin will assist in construction administration.

Jacobs

Bemen Makaryous, PE
Electrical Task Lead

Education
Master of Business Administration, University of South Florida, St. Petersburg, Florida, 2022

Bachelor of Science in Electrical Engineering, Higher Technological Institute, Cairo, Egypt, ABET accredited program, 2010.

Registrations
Professional Engineering (PE) Certification, Florida, Kentucky, and Georgia Board of Professional Engineers.

Other Certification
Revit Autodesk Certified User.

Years of Experience
10

Bemen is an electrical engineer with over ten years of experience specializing in power and lighting systems design, including distribution, generation, transmission, and control. He holds Professional Engineering licenses in Florida, Georgia, and Kentucky. His portfolio includes commercial, industrial, grocery, and federal projects, where he has consistently delivered efficient and reliable solutions while ensuring compliance with industry standards. Bemen excels in understanding client needs, enabling him to develop comprehensive technical scopes that meet requirements and ensure project completion within budget and with exceptional quality.

Relevant Project Experience

ZPH Terminal and Hangars, Zephyrhills, FL, 2024 to Present, Electrical engineer Lead.
Scope/Description: The project involved the construction design of a Terminal building (9,144 SF) and a Hangar maintenance (6,237 SF).
Role and Responsibilities: Electrical design Lead, responsible for leading electrical design for the ZPH Hangar facility, including power distribution, lighting, communications, industrial controls, and lightning protection systems. Provide QC and review designs for compliance with Publix criteria and local electrical codes. Conduct electrical calculations for load and system performance. Provide ongoing construction support by responding to RFIs, reviewing submittals, and performing site visits as needed to ensure project accuracy and resolve issues.

Amtrak Projects, Hialeah, FL, 2024 to Present, Electrical engineer Lead.
Scope/Description: Renovation and expansion of existing Amtrak facilities with various sizes.
Role and Responsibilities: Electrical design Lead, responsible for leading electrical engineering design for both new construction and renovation of existing Amtrak facilities, covering power distribution and lighting systems. Develop design solutions to enhance energy efficiency and system reliability in both new and renovated transportation infrastructure. Provide quality control (QC) for all electrical designs, ensuring compliance with codes and project requirements. Conduct electrical calculations for load, voltage drop, and short circuit analysis to ensure system performance. Provide construction administration support, including responding to RFIs and submittals, and conducting site visits to verify installation and resolve technical issues.

Publix Store projects, Florida, 2024 to Present, Electrical engineer Lead.
Scope/Description: Renovation and expansion of existing Publix supermarkets with various sizes.
Role and Responsibilities: Electrical Design Lead, responsible for leading electrical design for Publix liquor store remodels and new construction, including power distribution, lighting, communications, and lighting control. Provide QC and reviewed designs for compliance with Publix criteria and local electrical codes. Conduct electrical calculations for load and system performance. Provide ongoing construction support by responding to RFIs, reviewing submittals, and performing site visits to ensure project accuracy and resolve issues.

P-1574 MRSB Operational Support Facility, Marine Corps Camp Lejeune, NC, Electrical Engineer, 2022.
Scope/Description: The project involved the construction design of an Operational Support Facility with a building size of 9,938 SF.
Role and Responsibilities: Electrical Engineer, responsible for performing construction designs for electrical distribution systems, lighting, one-line diagrams, arc flash studies, communications, industrial controls, and control systems in accordance with applicable codes. Performed electrical calculations for electrical loads, panel schedules, transformer, breaker sizing, conductor sizing, fault current, voltage drop, and lighting energy conversation, among others. Coordination with architecture, mechanical/plumbing, structural, and civil engineering disciplines. Reviewed shop drawings and responded to RFI's.

Jacobs

Ambulatory Care Center Addition Alteration, Naval Facilities Engineering Southwest - Miramar, California, 2021 to 2022.
Scope/Description: The project involved the construction design of an Ambulatory Care Center with a building size of 241,500 SF.
Role and Responsibilities: Electrical Engineer, responsible for performing construction designs for electrical distribution systems, lighting, one-line diagrams, arc flash studies, communications, industrial controls and control systems in accordance with applicable codes. Perform electrical calculations for electrical loads, panel schedules, transformer, breaker sizing, conductor sizing, fault current, voltage drop, lighting energy conversation, among others. Coordination with architecture, mechanical/plumbing, structural and civil engineering disciplines. Performed Quality Assurance/Quality Control process; Reviewed shop drawings; Responded to RFI's.

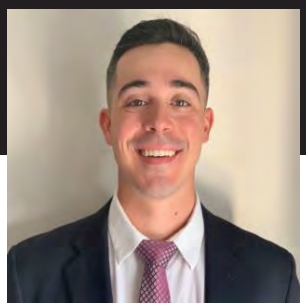
P-475 F35 Maintenance Hangar, Marine Corps Air Station Beaufort, SC, Electrical Engineer, 2020 to 2021
Scope/Description: The project involved the construction design of a Maintenance Hangar (108,154 SF), an Operational Support Facility (7,718 SF), and a Parking Facility (176,431 SF).
Role and Responsibilities: Electrical Engineer, responsible for performing construction designs for electrical distribution systems, lighting, one-line diagrams, arc flash studies, communications, industrial controls, and control systems in accordance with applicable codes. Performed electrical calculations for electrical loads, panel schedules, transformer, breaker sizing, conductor sizing, fault current, voltage drop, and lighting energy conversation, among others. Coordination with architecture, mechanical/plumbing, structural, and civil engineering disciplines. Reviewed shop drawings and responded to RFI's.

Travis Air Force Base, BLDG 791, Travis AFB, CA, Electrical Engineer, 2020.
Scope/Description: The project involved the construction design of a New Warehouse facility with a building size of 6,541 SF.
Role and Responsibilities: Electrical Engineer, responsible for performing construction designs for electrical distribution systems, lighting, one-line diagrams, arc flash studies, communications, industrial controls, and control systems in accordance with applicable codes. Performed electrical calculations for electrical loads, panel schedules, transformer, breaker sizing, conductor sizing, fault current, voltage drop, and lighting energy conversation, among others. Coordination with architecture, mechanical/plumbing, structural, and civil engineering disciplines. Reviewed shop drawings and responded to RFI's.

Regional Super Market Chain, Renovation and Self Development Program, Florida, Publix, Walmart and Target, Electrical Engineer, 2017 to 2020.
Scope/Description: Renovation and expansion of existing supermarkets, and the client's self-development program (which includes new stand-alone supermarkets, shopping center complexes, and district office renovations) throughout Florida, Georgia, and South Carolina.
Role and Responsibilities: Electrical Engineer, responsible for renovations and special projects (Liquor Stores, Pharmacies, Cooking, etc.) for large commercial supermarket accounts; Determined fees on a per-project basis. Performed Quality Assurance/Quality Control process; Reviewed shop drawings and responded to RFI's. Provided direction on all aspects of power distribution and lighting design for the renovation and expansion of existing supermarkets. Performed Complete power and light design, including lighting calculations, voltage drop calculations, short circuit calculations, and service size calculations on over 40 remodels.

Nicholas Bragaia PE, ENV SP

Coastal Engineer



Experience

6 years

Qualifications/Accreditations

- MS, Civil & Coastal Engineering, 2021
- BS, Ocean Engineering, 2018
- Envision Sustainability Professional, ENV SP
- Registered Professional Engineer in Florida

Relevant experience summary

Nick has over five years of professional experience working on a wide variety of interdisciplinary engineering projects. Nick's academic background is rooted in ocean engineering with an emphasis on coastal modeling investigations and coastal resiliency studies. He is versed in coastal processes and performing calculations related to determining metocean conditions, climate data investigations, and the design of coastal structures. He is experienced in technical documentation encompassing feasibility studies, design reviews and technical plan package submittals.

Project experience

Matheson Hammock Park Seawall Replacement

Coastal Engineer |
Miami-Dade County PROS | Miami, FL |
2021 - Ongoing |

This project comprised a replacement of 675 linear feet of sea wall on the upland side of a marina to mitigate sea level rise and sunny day flooding events that limit public enjoyment of this iconic Miami park. The project is step one by the client to ensure the protection of the 630-acre Matheson Hammock Park located along the western shoreline of Biscayne Bay, which has been open to the public since 1930. The historic park includes a 243 slip marina, restaurant, large wading lagoon and beach, mangrove trails, and numerous historic buildings and structures constructed of Miami's oolitic limestone. Critical challenges include conflicts with a historic building and utilities, planning accommodations for future park projects, and considering alternatives within grant funding limitations.

Seawall Assessment (Indian Creek)

Coastal Engineer |
Indian Creek Village | Indian Creek Village, FL |
2023 |

Indian Creek is a man-made island located north of Miami Beach and along the eastern extents of northern Biscayne Bay. The island encompasses ~250 acres, a private golf club, residential homes, and ~13,800 LF of mixed shorelines (the majority of which are seawalls). The Indian Creek police station is situated on the Miami Beach barrier island and contains ~375 LF of shoreline (seawall). Nick provided a review of the top of wall requirements for the surrounding local municipalities and counties. Afterwards, Nick estimated the extreme water surface elevations around the island and calculated the freeboard of several seawall elevations when compared to various storm return intervals considering sea level rise. GHD used Nick's research to make a recommendation for a the top of wall elevation that would provide protection to the upland properties.

Mid-Town Seawall Replacement

Coastal Engineer |
Town of Palm Beach | Palm Beach, FL |
2020 - Ongoing |

Nick is supporting the design, permitting, and bid phase services associated with the replacement of an aging section of an existing seawall fronting the Atlantic Ocean. The project aims to provide storm protection for Ocean Boulevard, which serves as the hurricane evacuation route for this segment of the Island. The project comprises approximately 2,700 linear feet of seawall protecting Ocean Boulevard along a very popular public beach in the heart of Palm Beach. Nick provides coastal engineering services along with scour and vulnerability assessments to support the design of the new seawall.

FDEP – Curry Hammock State Park Tidal Connections Restoration

Coastal Engineer |
Gresham Smith | Marathon Key, FL | 2023 |

Curry Hammock State Park is located along U.S. Highway 1/Overseas Highway (U.S. 1), Marathon, Monroe County, Florida. Curry Hammock State Park is

T +1 561.293.8463 | **E** nick.bragaia@ghd.com

Nicholas Bragaia | Coastal Engineer

located between Florida Bay to the north and the Atlantic Ocean to the south. During the development of this area and the construction of U.S. 1 during the last century (early 1900s), the historical tidal connections between the Florida Bay and the Atlantic Ocean were filled in. The tidal restoration project aims to restore the historical tidal connections at the two sites by re-establishing circulation between the surface waters of the Atlantic and Florida Bay. Nick provided coastal modeling and engineering services to design the tidal restoration structure and quantify the benefits to the water quality of the park. Nick also provided calculations to inform the sizing of rock armor protection for the adjacent shorelines.

Village of Indian Creek Seawall Assessment
Coastal Engineer |
Village of Indian Creek | Indian Creek, FL | 2023 |
The Village is a man-made island located north of Miami Beach and along the eastern extents of northern Biscayne Bay. The island encompasses ~250 acres, a private golf club, residential homes, and ~13,800 LF of mixed shorelines (the majority of which are seawalls). The Village Police station is situated on the Miami Beach barrier island and contains ~375 LF of shoreline (seawall). Nick provided a review of the top of wall requirements for the surrounding local municipalities and counties. Following this, Nick estimated the extreme water surface elevations around the island and calculated the freeboard of several seawall elevations when compared to various storm return intervals considering sea level rise. A recommendation on the top of wall elevation was made that would provide protection to the upland properties.

Miami-Dade County Coastal Erosion Hotspots: Modeling, Planning & Design Services
Coastal Engineer |
Miami-Dade County | Miami-Dade County, FL | 2020 - 2021
The Miami-Dade County Division of Environmental Resources Management (DERM), Department of Regulatory and Economic Resources (RER) retained GHD to provide coastal modelling, planning, permitting, and design services to identify and mitigate coastal erosion hotspots along approximately 13 miles of the Miami-Dade County shoreline. The shoreline of interest extends from Florida Department of Environmental Protection (FDEP) reference monuments R-7 to R-74 and comprises beach shorelines extending from a northern boundary of Sunny Isles to the Government Cut north jetty. Nick provided hydrodynamic, wave, and sediment transport modelling support using the MIKE21 suite to optimize the design of a series of offshore detached breakwaters.

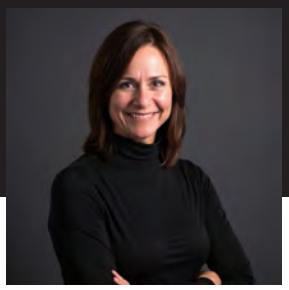
Hurricanes Matthew & Irma FEMA Berm Restoration
Engineer |
St. Johns County | St. Johns County, FL | 2021 – Ongoing |
The passing of Hurricane Matthew in 2016, along with Hurricane Irma in 2017, caused significant coastal erosion throughout segments of shoreline in St. John's County. The county obtained FEMA funding to construct a beach fill project to recover the sand losses sustained throughout these storm events. Nick provided coastal engineering services, including the analysis of 20 years of historic shoreline positional data to quantify shoreline movement trends throughout the 20.2-mile Project Area. He also provided an analysis on the sediment samples obtained throughout the foreshore and nearshore zones to visualize typical grain size distributions along each shoreline reach. Additionally, Nick assisted in the formation of a joint coastal permit (JCP) application, providing input on how the design of the beach fill project will not alter the coastal processes or navigational practices native to the project.

Colonel Ward Water Treatment Facility Coastal Modeling
Coastal Engineer |
City of Buffalo | Buffalo, NY | 2021 |
Col. Ward Water Treatment Facility is located on the shoreline of Lake Erie in the City of Buffalo in Northern NY state. The location of the facility exposes it to extreme wind and water level events that occur on Lake Erie. Nick was responsible for the statistical evaluation of historical records and numerical modeling of design events. Nick constructed a 2D hydrodynamic and wave model of the project area. Two design events derived from extreme value analysis (EVA) of the historical data were modeled to formulate estimates of wave height and water level at the facility. This information was used as inputs into runup and overtopping discharge calculations for a proposed berm. This information was used to inform the berm crest level and frontal slope design.

Garapan Fishing Base Shoreline Stabilization Design
Coastal Engineer |
Western Pacific Regional Fisheries Management Council | Saipan, Commonwealth of the Northern Mariana Islands | 2020 |
WESTPAC retained GHD to provide engineering design services for improvements to the Garapan Fishing Base Facility in Saipan. The facility is a popular dock for commercial and recreational boaters. The dock is located in an open public space used for large events. One project component involved stabilizing the existing shoreline from erosion events from passing typhoons. Nick provided engineering calculations to estimate median stable rock sizes for the proposed rock revetment along with designs of typical revetment cross-sections.

Anne E. Shoffner

Coastal and Marine



Experience

26 years

Qualifications/Accreditations

– Master of Science, Marine Environmental Science, Nova Southeastern University, Ft Lauderdale, FL 2004
– Bachelor of Science, Biology, Organismal and Systems, University of Tennessee, Knoxville, TN 1994

Key technical skills

– Marine and coastal restoration and mitigation
– Habitat assessments, characterization, monitoring, and documentation
– Natural resource management
– Advanced SCUBA Diver, and boat handling skills

Memberships

– Florida Association of Environmental Professionals
– Jupiter Environmental Task Force, Member
– American Association of Underwater Scientists
– Women of WEDA (Western Dredging Association)

Relevant experience summary

Ms. Shoffner has over 25 years of experience working in private consulting and for government organizations working in coastal, marine, freshwater, and estuarine environments. Her experience includes business development, project scoping and cost estimations, technical proposal development, NEPA documentation support, and field-based services using remote and in situ equipment for benthic habitat characterization data collection and monitoring surveys. As a project manager, she has conducted contract negotiations, directed project staff and subconsultants, performed risk management, successfully implemented conflict resolution, managed project timelines and budgets, maintained positive and responsive relationships with clients, drafted project updates and technical reports, administered invoicing and subconsultant payments, and applied adaptability and critical thinking during challenging situations. She served as project manager and/or lead scientist on beach nourishment, port dredging, infrastructure construction, offshore energy, and linear projects. She has extensive experience in coral reef restoration and relocation, and seagrass mitigation projects. She has worked in numerous countries and oceans worldwide.

Project experience

Beach Truck Haul Nourishment - Miami

Project Manager |

Client: Miami-Dade County |
2023 - 2024

Conducted a side-scan sonar (SSS) survey to identify the nearshore hardbottom reef edge along 14 miles of linear shoreline adjacent to the Miami-Dade County coastline as part of a proposed beach nourishment project within the Federal Shoreline Protection Project limits. Potential hardbottom areas identified from the SSS survey were verified in the field on SCUBA, habitats were characterized and Threatened or Endangered (T&E) species were documented. The results were provided the Florida Department of Environmental Protection (FDEP) who confirmed no resources were within 150 meters of the Equilibrium to of Fill (ETOF). FDEP confirmed that a Biological Monitoring Plan (BMP) was not required due to lack of sensitive resources.

Port Everglades and Lake Worth Inlet Jetty Rehabilitation - Miami and Fort Lauderdale

Project Manager/Marine Scientist |

US Army Corps of Engineers (USACE) |
2020 - 2021

Provided environmental support for rehabilitation of two USACE jetties at Port Everglades and the Port of Palm Beach (Lake Worth Inlet). On both projects, conducted benthic surveys within the construction areas, relocated coral colonies, and performed post-relocation monitoring. Worked closely with the Florida Fish and Wildlife Conservation Commission to facility the removal and donation of several coral colonies for conservation and research purposes.

Higgs Beach Nourishment Project - Key West

Project Manager/Marine Scientist |

Monroe County |
2019 - 2024

Work closely with the FDEP, Monroe County, and client on the sand replenishment project at Higgs

T +1 786.431.2866 | **M** +1 772.486.8530 | **E** Anne.Shoffner@ghd.com **www.ghd.com**

Anne E. Shoffner | Coastal and Marine

Beach, City of Key West to monitor potential impacts to hardbottom and SAV communities, and assess the condition of individual coral colonies, including threatened species prior to and for two years following nourishment of the popular beach.

PortMiami Deepening Project - Coral Relocation and Seagrass Mitigation and Monitoring - Miami

Project Manager/Marine Scientist |

USACE |
2013 - 2015

Project Manager and Chief Scientist for the relocation of coral colonies from the channel to natural habitat and artificial reef and creation of over 14 acres of seagrass habitat using specialized techniques and perform immediate post-restoration seagrass monitoring at fixed transects and stations within a filled dredge hole. Assisted in UMAM analysis for project permitting.

Benthic Habitat Characterization Naval Air Station - Key West

Senior Marine Scientist |

US Navy |
2013

Lead scientist for benthic habitat mapping within five maritime areas owned and operated by Naval Air Station Key West (NASKW). Video transects and quantitative sampling of submerged aquatic vegetations were conducted across each area and included a seagrass assessment.

Village of Key Biscayne Seagrass Mitigation and Monitoring Program - Key Biscayne

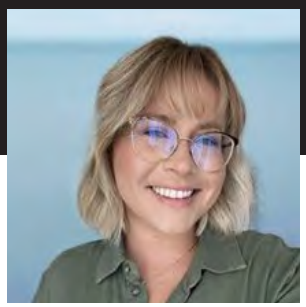
Project Manager/Marine Scientist |

Village of Key Biscayne |
2008 - 2012

Project Manager and Chief Scientist for a large-scale, long-term (7 years) seagrass mitigation and monitoring program for the Village of Key Biscayne, FL. The program was unique in that the seagrass included mixed species over a wide geographic range and multiple jurisdictional and watershed areas. The program including pre-mitigation mapping, mitigation planning, negotiation with state and local agencies, seagrass transplantation, and monitoring across fixed transects and stations over a period of 7 years.

Jessica R. Rakich, PE

Coastal Engineer



Experience

6 years

Qualifications/Accreditations

- ME, Coastal and Oceanographic Engineering, 2020
- BS, Civil Engineering, 2019
- Licensed Professional Engineer: FL
- NAUI Open Water Diver
- PADI Enriched Air (Nitrox) Diver

Key technical skills

- Coastal data analysis
- Coastal structure inspection
- Construction oversight

Memberships

- American Society of Civil Engineers
- American Water Resources Association

Relevant experience summary

Jessica is a Coastal Engineer with over five years of analytical and design experience. Her projects include a variety of public and private projects throughout the United States, the Caribbean, and the Pacific. She has an understanding of regulatory environmental permitting at the local, state, and federal levels. Her projects have involved coastal analysis and design, marina planning and design, construction administration, numerical modeling, and construction document development.

Project experience

Ascension St. Vincent's Riverside Hospital FEMA

Coastal Engineer/Deputy Project Manager | Gresham Smith | Jacksonville, FL | 2023 – Ongoing |

GHD was hired by Gresham Smith to provide engineering services for the analysis and design of a 3,100 linear foot floodwall with various pedestrian and vehicular flood gates to protect a hospital on the St. Johns River in Jacksonville, FL. The purpose of this Project is to protect Ascension St. Vincent's Riverside from flooding, due to overtopping of the shoreline. Although not a specific design objective for the floodwall, the large-scale Project additionally considers rainfall runoff from the watershed that includes the campus. The Project (FLJAC30613 Riverside FEMA Phase 1 Envelope and Flood Mitigation Ascension – St. Vincent's Riverside) is funded through the Hazard Mitigation Grant Program as approved by the Florida Division of Emergency Management (FDEM) and the Federal Emergency Management Agency (FEMA). As part of the Project, a wind retrofit and flood control mitigation assessment is needed to determine, design, and permit protection of the Project site during storm events. Challenges included designing to a 500-year storm event, limited as-built information for campus utilities, coordination with various permitting agencies, and integration of a robust flood wall into the existing features and architecture of the campus buildings. Jessica is responsible for assisting the Project Manager, analysis of coastal data, and construction of the Basis of Design documentation.

Little River Pocket Park

Coastal Engineer | City of Miami | Miami, FL | 2023 – Ongoing |

The City of Miami obtained GHD to review another consultant's seawall design. To mitigate against future sea level rise, the newly designed seawall must extend across the park's entire shoreline. The design also includes drainage improvements to accommodate a future pump station and upsized outfalls. The project contains development of construction plans and specifications for a new seawall, kayak launch, and mangrove shoreline along the Little River. Jessica is responsible for the in-water assessment of the existing seawall, design documentation, and assisting the Project Manager.

T +1 571.325.5052 | **M** +1 239.784.2274 | **E** jessica.rakich@ghd.com **ghd.com**

Jessica R. Rakich | Coastal Engineer

City of Key West Boat Lift

Coastal Engineer |
City of Key West | Key West, FL |
2023 |

Coastal engineer responsible for permitting documentation and assisting in benthic resource survey. The City of Key West desired to obtain permitting support to fulfill a FEMA grant requirement for the installation of two boat lifts at Fire Station #1. The City authorized GHD to commence development of separate permit application packages for submittal to each of the agencies with regulatory jurisdiction (FDEP and USACE) over this project. A topographic and bathymetric survey of the Project limits and Garrison Bight basin, sufficient to satisfy agency permitting requirements, as well as map and characterize the nearshore marine/estuarine benthic habitats located within the Project limits was completed. An ERP exemption was issued by SFWMD on behalf of FDEP and USACE.

Legion Park Seawall

Coastal Engineer |
City of Miami | Miami, FL |
2022 – Ongoing |

Coastal engineer responsible for assessment of existing seawall construction, design of temporary upland stabilization, construction oversight, and redesign of the project. The City of Miami hired a contractor to construct the Legion Park Seawall & Non-Motorized Vessel Ramp. The contractor encountered unforeseen construction debris and installed concrete piles utilizing a 'trench box' method that excavated/removed the debris and limestone rock to a depth of 4-5 feet above the pile tip elevation. The City authorized GHD to perform a structural evaluation of the stability of the piles in December 2022 and to perform a regulatory & agency review to determine what steps would be necessary to secure the site while the City considered overall project direction. A drone aerial and topographic survey and a stabilization plan for the excavated area was authorized by the City in February 2023. Assistance with permit closeout is ongoing.

West Lake Park – Segment 4

Coastal Engineer/Deputy Project Manager |
Continental Heavy Civil Corp | Hollywood Beach, FL | 2023

Coastal engineer responsible for assisting the Project Manager, culvert inspections, and developing the Environmental Protection Plan and Stormwater Pollution Prevention Plan. West Lake Park is a ±1,500-acre park located in Hollywood Beach, FL. Mitigation at the Park has been successfully conducted in years past to improve the ecosystem by removing exotic vegetation, planting native vegetation, regrading soil to create tidal zones, and protecting the shoreline with riprap cribs along the Intracoastal Waterway. Continental Heavy Civil Corp. (CHC) was selected to construct the next phase of the mitigation project, West Lake Park – Segment 4. GHD was hired by CHC to provide assistance during the pre-construction and construction phases of the project.

Indian Creek Village Seawall

Coastal Engineer |
Indian Creek Village | Indian Creek Village, FL |
2022 – Ongoing |

Jessica was the coastal engineer responsible for assisting in the top of seawall elevation study. Indian Creek Village is a man-made island that sits east of Biscayne Bay. The island encompasses ~250 acres, a private golf club, residential homes, and ~ 13,800 LF of mixed shorelines. The Village Police station contains ~375 LF of shoreline. Majority of the shorelines throughout the Village are seawalls. GHD was retained to analyze existing coastal data and provide a recommendation of a top of wall elevation. Future work may include policy review and assessment of alternatives.

Port of Alaska Terminal 1 Replacement

Coastal Engineer |
Port of Alaska, Municipality of Anchorage, AK |
Anchorage, AK |
2022 – Ongoing |

Jessica is the coastal engineer for the $10M joint-venture investigation and design of the Terminal 1 Replacement at the Port of Alaska. The redesign and replacement are part of an ongoing 5-part Port of Alaska modernization project, which aims to improve port operations, safety and efficiency, accommodate today's modern shipping operations, and improve resiliency to earthquakes and other natural disasters. The Port is an integral part of the community by providing key transportation of necessary goods into Alaska, making it an extremely complex and high-profile project. Jessica is responsible for the analysis of waves, currents, and tides at the project site, and assisting the project manager with meeting project submittal deadlines.

T +1 571.325.5052 | **M** +1 239.784.2274 | **E** jessica.rakich@ghd.com

Jesse W. Davis PE, ENV SP

Coastal & Marine

Experience

19 years

Qualifications/Accreditations

– M.S., Ocean Engineering, Florida Institute of Technology; B.S., Ocean Engineering, Florida Institute of Technology

Memberships

– Licensed Professional Engineer: FL
– Envision sustainability professional (attained in 2018).

Relevant experience summary

Jesse has 19 years of experience in coastal engineering and has provided design, permitting, environmental field assessments, and construction phase services for projects located throughout the United States (East coast, West coast, & Great Lakes Region), the Caribbean, and South America. Career highlights include playing a key role (from conception to construction) for the permitting, design, and construction of a nature-based island storm protection system in Fort Pierce, Florida that was the recipient of the 2016 ASCE-COPRI Project Excellence Award for large projects; the construction of an 11.6 acre artificial reef off the Port of Miami; and the design/construction engineering services for a 1,500 foot shoreline stabilization project on Whidbey Island in Puget Sound, WA that was recognized in NAVFAC's Environmental Restoration News as a success story.

Additional project experience includes living shorelines, marinas, boat ramps, dredging, shoreline stabilization, seawalls, propeller wash modeling, vessel berthing & mooring calculations, disaster response, design of fall protection for water control structures, inspection of breakwaters and water control structures, water quality sampling, hazwaste & drycleaner site sampling and contaminated soils removal oversight.

Project Experience

Legion Park: Seawall to Living Shoreline Conversion

Project Manager |
City of Miami | Miami, FL |
2022 - Ongoing

The City authorized GHD to perform a structural evaluation of the stability of the piles in December 2022 and to perform a regulatory and agency review to determine what steps would be necessary to secure the site while the City considered overall Project direction. A drone aerial and 4D topographic survey was completed to aide in the stabilization plan for the previously excavated area. Design of the temporary structure included stable stone sizing and underlayment (foundation). Rock tonnage and backfill quantity estimates were calculated based on the design approved by the City. GHD corresponded with regulatory agencies to obtain authorization for the temporary design. The City hired GHD to provide construction oversight while the Contractor stabilized the site.

South Bayshore Lane Pump Station Project

Project Manager |
ADA Engineering/City of Miami, Miami, FL |
2021 – 2022

The City of Miami is upsizing an existing drainage outfall that is located within a 15-foot wide easement between two condominium buildings. The outfall terminates into Biscayne Bay through a seawall that was constructed in 1965. The record drawings obtained from the City did not match field conditions. Thus, GHD performed a GPR survey to determine whether any upland conflicts existed (e.g. tie-backs) and the approximate location of reinforcing, thickness of wall, and concrete cover. GHD provided expedited geophysical field investigations and construction plans & specifications.

Little River Mini Pocket Park Seawall

Project Manager |
City of Miami | Miami, FL |
2023 – Ongoing |

The City of Miami engaged GHD in October 2023 to review another consultant's seawall design, extend the seawall to provide flood protection across the entire Park shoreline, and design drainage improvements to

M +1 786 447-7972 | **E** jesse.davis@ghd.com

Jesse W. Davis | Coastal & Marine

accommodate a future pump station and upsized outfalls. The site contains historic mangroves and weak subsurface soil conditions to 30ft below existing grade; including a highly organic and compressible peat layer within the upper 10 feet. GHD mobilized our in-house drill rig to confirm that the weak subsurface conditions extended along the entire proposed seawall alignment. We re-designed the seawall to provide greater overall stability constructability. In addition, our efforts resulted in a smaller overwater footprint to streamline regulatory reviews.

Miami Beach Storm Protection: Planning, Modeling, Permitting and Design Services

Project Manager |
Miami-Dade County RER-DERM | Miami-Dade County |
2020 - Ongoing |

Miami-Dade County beaches are known worldwide as a prime tourist destination and are important to the local economy. The County's beaches also provide resiliency and storm protection for billions of dollars in beachfront infrastructure and create habitat for protected animal species, including sea turtles. As part of the County's Sea Level Rise Strategy, GHD developed a coastal modeling tool (hydrodynamic, wave, and sediment transport) to aid in identifying and developing cost effective mitigation and adaptation strategies to maintain a resilient coastline, both now and into the future. GHD is now assisting the County with obtaining a permit modification to streamline truck haul beach nourishments along 13 miles of beach shoreline and developing a preliminary breakwater design to mitigate an erosion hotspot located on Miami Beach. Mr. Davis is the project manager.

Morningside & Shorecrest Seawall Improvement Projects

Project Manager |
ADA Engineering - City of Miami | Miami, FL |
$190,000 | 2024 – Ongoing |

This project is funded through state resiliency grants and aims to raise or replace six (6) seawalls totaling 750+ LF that have top of cap elevations less than +3.5ft NAVD-88. The project also includes providing a design that accommodates upsized drainage outfalls and new baywalks along the public right-of-way. GHD is providing structural inspections/assessments along two design alternatives and an opinion of probable construction cost for each of the six shorelines.

Matheson Hammock Park Seawall Replacement and Repairs

Project Manager |
Miami-Dade County RER-DERM | Miami, FL |
2021 – Ongoing |

Project Manager responsible for the replacement of 675 linear feet of sea wall on the upland side of a marina to mitigate sea level rise and sunny day flooding events that limit public enjoyment of this iconic Miami park. This is the first step of a larger coastal protection master plan to ensure protection of the 630 acre Matheson Hammock Park located along the western shoreline of Biscayne Bay that has been open to the public since 1930. The historic park includes a 243 slip marina, restaurant, large wading lagoon and beach, mangrove trails, and numerous historic buildings and structures constructed of Miami's politic limestone. Critical challenges include conflicts with a historic building and utilities, planning accommodations for future park projects, and considering alternatives within FEMA Hazard Mitigation Grant funding limitations.

Top of Seawall Study

Project Manager |
Indian Creek Village | Indian Creek Village, FL |
2022 |

The Village is a man-made island located north of Miami Beach and along the eastern extents of northern Biscayne Bay. The island encompasses ~250 acres, a private golf club, residential homes, and ~13,800 LF of mixed shorelines (the majority of which are seawalls). The Village Police station is situated on the Miami Beach barrier island and contains ~375 LF of shoreline (seawall). Nick provided a review of the top of wall requirements for the surrounding local municipalities and counties.

Mid-Town Seawall Replacement Design, Permitting and Construction Management

Deputy Project Manager and Senior Coastal Engineer |
Town of Palm Beach | Palm Beach, FL |
2020 – Ongoing |

Mr. Davis is serving as the Deputy Project Manager and Senior Coastal Engineer for this multidisciplinary data collection, planning, design, and permitting project associated with replacement of approximately 2,700 linear feet of aging seawall that protects North Ocean Boulevard and upland properties from storm impacts. The project area is along the Town's Mid-Town shoreline, which has a managed and maintained beach project providing storm protection and recreational benefits to residents and visitors. Both cantilevered and tie-back wall alignments will be evaluated, followed by a permit application submittal to the Florida Department of Environmental Protection. The GHD Team will finalize the design in 2021 and assist the Town with bid phase services.

Historic Turtle Kraals & C Dock Assessment

Project Manager |
City of Key West | Key West, FL |
2021 – Ongoing |

GHD was contracted by the City of Key West to perform a visual condition assessment, develop restoration recommendations and determine the level of effort required to permit and construct an historically accurate restoration of the concrete pile pens that define the Historic Turtle Kraals within the Key West Bight Marina at the Historic Seaport.

FREDERICK THOMPSON, CGC

Bidding Assistance

YEARS EXPERIENCE

30+

EDUCATION

BS, Civil Engineering, Manhattan College, Riverdale, NY

Diploma in Structural Engineering, C.A.S.T., Jamaica, WI

Certificate in Construction Studies and Quantity Surveying C.A.S.T., Jamaica, WI

G2 Certificate in Construction Technology, ULCI, London England

REGISTRATIONS, CERTIFICATIONS & TRAINING

Florida Certified General Contractor #CGC150966

TWIC – Federal Clearance to Work in High Security Areas – Exp. 30-April-22

FDOT Final Estimate Certification

OSHA – 30-Hour Certificate in Construction Safety

US Patent – US 6,393,410 B1 – System for listing construction information over a computer network

PROFESSIONAL AFFILIATIONS

Association for the Advancement of Cost Engineers, Member

US Green Building Council, Member

American Society of Professional Estimators, Member

Mr. Frederick Thompson has over 30 years of construction-related experience including serving as VP of Pre-construction and as a Chief Estimator for major national and international construction companies in Florida and New York. He is a proven visionary and strategic leader who translates business strategies into maximum profits commensurate with the best interest of company, customers, employees, and the public. Frederick has worked on projects ranging from $1 million to over $1 billion, encompassing a vast array of projects including transportation, heavy construction housing development, condominium, education, and healthcare. He is a State-Certified General Contractor in the State of Florida and the holder of US patent (US 6,393,410 B1) for online bidding and quantity take-off for the construction industry.

Software includes:

- MS Office Advanced
- MS Visio Advanced
- MS Project Advanced
- Bluebeam Revu 2018 Advanced
- Adobe Acrobat Professional Extended Advanced
- Primavera – Suretrak Advanced
- Primavera P3 Advanced
- Primavera P6 Moderate
- Onscreen Take-off (By Oncenter) Advanced
- Quick Bid (By Oncenter) Advanced
- Pro-Contractor MX Earthwork – Viewpoint Advanced
- HCSS – Heavy Bid Moderate
- Cabinet Vision Moderate
- Smartbidnet.com – Bid Management Advanced
- ISQFT – Bid Management Moderate
- AutoCAD – Revit BIM Beginner
- Quick books

Experience includes:

President of Quantities, Inc., Lauderhill, FL: Responsible for the overall operations of the Company, New Business Development, Pre-construction support services, construction technology integration, Initiate and maintain liaison with client and A/E contacts.

Director of Pre-construction at Pirtle Construction, Davie, FL: Overall operation of the Pre-Construction Department. Initiated and maintained liaison with client and A/E contacts to facilitate successful pre-construction process. This included attending client-initiated meetings and ceremonial events, an active role in the Personal Performance Management (PPM) process to develop and mentor subordinates toward a successful career with the company.

Chief Estimator at OHL-USA, Inc., Davie, FL: Previously responsible for the administration and daily operation of the estimating staff, including hand-off to operations and business development. Developed new bidding strategy and risk assessment applications for all types and sizes of projects.

Chief Estimator at Jobco Incorporated, Great Neck, NY: Oversaw Estimating Department in preparation of detail cost estimates, bids, negotiated and prepared contracts.

VP, Chief Estimator at Santa Fe Construction, New York, NY: Oversaw Estimating Department in preparation of detail cost estimates, bids, the negotiation and preparation contracts. Liaised between Business Development, Finance and Operation Departments.

Chief Estimator at Jobco Incorporated, Great Neck, NY: Oversaw Estimating Department in preparation of detail cost estimates, hard bids, negotiated and prepared contracts.

Curriculum Vitae

Jacobs

Susanne M. Torriente

GLOBAL PRINCIPAL, CITY RESILIENCE

- Experienced in breaking down complex issues into manageable solutions, fostering collaboration and integrating resilience and climate adaptation into interdisciplinary teams, polices and projects.
- Focused on leveraging Jacobs' broad base resilience skills to deliver integrated climate and resilience solutions to client communities.
- Served as assistant city manager in Fort Lauderdale and Miami Beach, leading a portfolio of departments including sustainable development (building, planning, zoning, economic development, community development), transportation and mobility, environment and sustainability, public works and capital improvement, housing, and parks).
- More than 30 years of experience, with last 15 years specializing in sustainability, climate adaptation and resilience integrated planning.

EDUCATION/QUALIFICATIONS

MPA, Public Administration, University of Miami

BA, English, University of Miami

MEMBERSHIPS AND AFFILIATIONS

Orange County Florida Sustainability Advisory Board, Chair

American Society for Adaptation Professionals (ASAP) Board, Treasurer (2021-2024)

Relevant Project Experience

East Central Florida Regional Planning Council & NE Florida RPC Military Installation Resilience Review (MIRR), Project Director

Emerald Coast Regional Planning Council Military Installation (MIRR) Resilience Review, Senior Resilience Advisor

South Florida Regional Planning Council Military Installation Resilience Review (MIRR), Project Manager

Miami Dade County Resilience Hubs Network Strategy & Guidebook, Project Director

Miami-Dade County Downtown Redevelopment Project, Resilience and Sustainability Lead

Miami Dade Water & Sewer Department South Wastewater Treatment Plant Emergency Operations Center Design, Resilience Lead

Recovery Assistance to FEMA Office of Response and Recovery, Resilience Advisor (Florida and Hawaii)

Relevant Project Experience (cont.)

Oklahoma City Utilities Department Emergency Response Plan (ERP) & Business Continuity Plan (BCP), Resilience SME

Tyndall Air Force Base Hurricane Michael Recovery & Coastal Resilience, Panama City Beach, FL, Stakeholder strategy lead & funding strategy support

Seattle Public Utilities (SPU) Seattle Public Utilities, Seattle, WA, Resilience subject matter expert (SME)

Brevard County St. John WWTP Feasibility Study, Advisor and Municipal Liaison

Other Career Highlights - Public Service - Resilience

- Eight years as Miami Dade County assistant county manager for public safety and emergency management
- First Miami Dade County Sustainability Director
- First Miami Beach Chief Resilience Officer
- Founding member of the Southeast Florida Regional Climate Compact that includes Broward, Miami Dade, Monroe, and Palm Beach Counties; served as a County representative and city representative.
- Resilient 305, Greater Miami & the Beaches (GM&B), Miami, FL
- Miami Beach Strategic Plan, Miami Beach, FL.
- *Fast Forward Fort Lauderdale: Our City, Our Vision, 2035*, City of Fort Lauderdale, FL
- Urban Land Institute of the Miami Beach Stormwater Program, City of Miami Beach, Miami Beach, FL

Kira T. Zender, AICP
Environmental Permitting Specialist

Education

Master in Urban and Regional Planning, Michigan State University, 1994
Bachelor of Arts, Urban Studies, New College of the University of South Florida, 1991

Professional Registrations

American Institute of Certified Planners, #083522

Distinguishing Qualifications

Over 20 years of experience in environmental planning.
Siting and Environmental Permitting
Comprehensive and Land Use Planning
Community Planning
NEPA Compliance/Environmental Assessments
Resilience and Adaptation

Relevant Experience

Kira Zender is an experienced planner and project manager, with over 25 years' experience conducting and managing environmental planning projects. She serves as the Engineering with Nature Program Manager for Jacobs and manages over 15M of natural infrastructure work for the Department of Defense. She has prepared numerous facility siting, NEPA environmental documents and technical studies for federal, state, and county and private sector clients. She has led large NEPA efforts for USACE Mobile and Kansas City Districts and other federal agencies such as National Science Foundation and Customs and Border Protection. Early in her career she conducted numerous environmental planning, siting and permitting studies for utility and linear infrastructure projects in the southeast to include FL, TN, AL, MS, NC, SC and GA. Prior to joining, Jacobs she worked in community development planning focusing on comprehensive land use master planning, transportation planning, socioeconomic analysis, environmental justice, and public involvement.

Member: American Planning Association; American Institute of Certified Planners, National Association of Environmental Professionals, Society of Military Engineers.

January 2023- present, Jacobs, Climate Action and Resilience Lead, Federal and Environmental (F&ES) Market Solutions
Responsible for convening working group of Climate Action subject matter experts to define our market, establish priorities, and ensure a more synchronized approach for developing Climate Resilience strategy for business group. Role includes defining key priorities to drive growth across the business group and leverage existing activities, gain approval for strategy and priority recommendations from management team, organize the team and identify investment requirements. Other tasks include establishing deliverables, key performance metrics, chartering team, refining and roles and responsibilities and reporting requirements, refining and publishing climate resilience collateral for the sales and growth teams and establishing and executing engagement strategy(internal and external).

December 2021-December 2022, Federal Planning Solutions Director, F&ES Solutions and Technology Lead
September 2019-December 2021 Integrated Installation Planning Lead, F&ES Solutions and Technology Lead
In this role Kira served and an integrator between installation planning and environmental permitting for federal customers. Cross trained in NEPA and military master planning, Kira worked to collaborate across disciplines facilitating dialogue among subject matter experts to streamline the planning and NEPA processes. In this role Kira focused on early

identification of client issues, translation to needs identification and funding requirements, creation of facility solutions and project development to include 1391, NEPA compliance and concept development as one un-siloed service area.

2018 - Present, Air Force Reserve Command (AFRC) Program Manager
Oversaw portfolio of 17 task orders for the amount of 23.7 M. Responsibilities include new proposal development and negotiations, project management and technical oversight, staffing, quality assurance (QA), and health and safety (H&S) support. Ensured that projects were properly staffed and met AFRC customer expectations. Supported project teams to adjust schedules or staffing to ensure course correction.

2008 - Present, USACE Mobile Program Manager
Program Manager, USACE Mobile District NEPA Contracts Program manager for eight USACE Mobile District A/E contracts 95 NEPA TOs, valued at over 20 M over the last 19 years. Oversaw annual contract recompetes, proposal development and negotiations, project management and technical oversight, staffing, quality assurance (QA), and health and safety (H&S) support. Ensured that projects were properly staffed and met Mobile District and District customer expectations. Supported project teams to adjust schedules or staffing to ensure course correction. ***All projects were successfully completed with full compliance of client requirements, resulting in repeat business through additional task order (TO) awards.***

Engineering with Nature Projects:

2023 - Present, EWN, Increasing the Resilience of US Marine Corps Resources at Marine Corps Air Station (MCAS) Beaufort and Marine Corps Base Hawaii (MCBH) ERDC, BAA, subcontractor to EA Engineering, ($1,466,282), Project Manager. This project includes a living shoreline, erosion mitigation project at MCAS Beaufort ($712,153) and wave analysis a 15% conceptual design for beach protection at the Pu'uloa Range Training Facility (PRTF) at MCBH ($786,175).

2023 - Present, Conceptual Design for Erosion Mitigation using EWN Solutions at Mākaha Ridge, Pacific Missile Range Facility, Kaua'i, Hawai'I, ESEC/NAVFAC EXWC ($1M), Project Manager. This project includes stormwater and erosion control mitigation measures at Makaha Ridge. This important communications facility is experiencing severe erosion due to climatic conditions. Kira manages the EWN team which is preparing a 15% concept design and draft 1391 for implementing EWN stormwater solutions.

2021 – Present, EWN for DoD Facility Adaptation Planning Task Order, ERDC BAA, (1.5 M) Project Manager,
Project Manager for the EWN for DoD Facility Adaptation Planning task order for USACE ERDC which has addressed climate resilience 11 U.S. Navy installations. Led team organizing workshops in the desert Southwest, Southeast and Hawaii for 11 Navy and USMC installations. Managing all deliverables, project budget and weekly client interface. The current task order supports DoD and DoN in implementing their visions for future climate resilience and mission readiness, as laid out in the DoD's Climate Risk Analysis (2021) and the DoN's Climate Action 2030 guidebook (2022). The end result of this work is anticipated to be a catalog of ecosystem-appropriate, nature-based solutions that will include pilot projects, policy recommendations, and full-scale programs that promote the "triple bottom line" of reducing climate impacts on people, military assets, and budgets.

South Florida Regional Planning Council Military Installation Resilience Review, DoD Liason. 2022-2023.
The South Florida MIRR spans three counties and four key installations, including Naval Air Station Key West, Homestead Air Reserve Base, US Southern Command, and the South Florida Ocean Measurement Facility. The purpose of the MIRR was to identify the risks, hazards, and vulnerabilities of concern related to the ability of the military to carry out its missions on the installation that could be mitigated through investments and solutions outside the fence line in the community. Planning horizons of 2040 and 2070 were used for projections and forecasted climate vulnerabilities to each installation. The MIRR identifed projects that will ensure the military installations and surrounding communities survive, recover, adapt and thrive in the face of any climate related event.

Lyndsey Lopez | Jacobs

SOLID WASTE & RECYCLING PROGRAM EVALUATION, PLANNING, & IMPLEMENTATION

Lyndsey is a senior technical consultant with more than 19 years of experience working on solid waste, sustainable materials management, and net-zero waste projects. On these projects, she has participated in stakeholder engagement, strategy development, grant application preparation, solid waste and sustainable materials management planning, alternative evaluation, facility design, procurement assistance, and program implementation. She has prepared engineering evaluation and cost analysis documents, feasibility studies, permit reviews, grant applications, conceptual designs (e.g., site and facility layout), procurement documents and evaluation tools, waste projections and market assessments, waste characterization documents, surveys and interviews, literature and data review, client and stakeholder presentations, and integrated solid waste management plans.

Through her experience in solid waste, recycling, and organics waste projects throughout United States, Canada, and beyond, she has gained a thorough understanding of changing regulatory trends, and the various strategies that have been tried as well as the associated challenges and successes.

Education

B.S., Chemical Engineering, Colorado School of Mines

Registrations/Certificates

- Compost Facility Operator Training (Washington Organics Recycling Council)
- Master Recycler Certification (OR)
- Professional Engineer-In-Training (CO)

Memberships / affiliations

- Solid Waste Association of North America (SWANA)

Relevant Project Experience

Metro Garbage & Recycling System Facilities Plan | Metro | Portland, OR | August 2022 to Present | Senior Solid Waste Planning Consultant.

Lyndsey is helping Metro to prepare a Garbage and Recycling System Facilities Plan which will serve as the companion document to the 2030 Regional Waste Plan (RWP). The Garbage and Recycling System Facilities Plan will identify the infrastructure investments that are needed to meet the 2030 RWP vision. As part of this project, the team will assess how the current garbage and recycling system is working, existing gaps and opportunities related to facilities, capital improvement strategies to address the gaps and modernize the system, and financing strategies (including potential grants) for system improvements.

Wasatch Integrated Waste Management (WIWMD) LFGTE Procurement Assistance, Curbside Recycling Implementation Study, and Compost Facility Evaluation | WIWMD | Layton, UT | February 2023 to September 2024 | Senior Solid Waste Planning Consultant.

Lyndsey was the Project Manager and Senior Solid Waste Planning consultant assisting WIWMD with a variety of waste complex and district waste management assessments. for the recycling implementation study for WIWMD. Lyndsey is helping to evaluate options for WIWMD to provide consistent recycling across the district. The project includes background data review, option preparation and evaluation, and stakeholder engagement.

City of Great Falls Long-term Solid Waste Management Study | City of Great Falls | Great Falls, MT | April 2022 to Present | Project Manager and Senior Solid Waste Planning Consultant.

Lyndsey is leading the team that is helping the city identify and evaluate the best long-term solid waste management and disposal options for the City of Great Falls for the next 30 years. The evaluation includes preparation of long-term population projections and development of conceptual designs for a range of alternatives including a new self-haul transfer station, a new commercial transfer station, and a new landfill.

Various Public Clients for Support in their EPA Solid Waste Infrastructure for Recycling (SWIFR) and Recycling Education and Outreach (REO) Grant Applications| Multiple | Multiple | 2023 | Senior Technical Reviewer.

Lyndsey has supported several teams in the preparation of their grant applications for solid waste and recycling infrastructure and outreach projects under the EPA SWIFR and REO grant programs.

Orange County Sustainable Materials Management/Solid Waste Master Plan | Orange County | Orlando, FL | May 2022 to Present | Project Manager and Senior Solid Waste Planning Consultant.

Lyndsey is working with the County to evaluate the existing solid waste programs and infrastructure, determining gaps and needs, and considering options for providing near-term and long-term reduction, diversion, transport, and processing of end-of-life materials in the county. The plan will include innovative and forward-looking solid waste and materials management and will set an example for others in Florida.

Cobb County Solid Waste & Recycling Program Evaluation & Ordinance Support | Cobb County | Marietta, GA | 2021 to Present | Senior Solid Waste Planning Consultant.

Lyndsey is providing technical support with the review of existing solid waste and recycling programs, comparison with surrounding jurisdictions and preparation of a draft ordinance that incoporates a consistent requirements for a residential solid waste collection program (with recycling service options) for unicorporated Cobb County.

Clayton County Mandatory Curbside Collection Support | Clayton County | Jonesboro, GA | 2021 to Present | Senior Solid Waste Planning Consultant.

Lyndsey is providing techncial support with the preparation of an RFQ and RFP that are being used to solicit information from haulers as the County evaluates transitioning to a franchised collection model that includes four collection districts, minimum service of weekly trash collection , biweekly single stream recycling, and on-demand yard debris and bulky waste pickup.

Renewable Placer Facility Master Planning | Western Placer Waste Management Authority (WPWMA) | Roseville, CA | 2016 to 2022 | Deputy Project Manager and Senior Solid Waste Planning Consultant.

Lyndsey provided project management and solid waste facility master planning for the WPWMA's multi-purpose solid waste facility that considers the changes needed to take the existing complex into the future and the associated phasing needed to support continuous operation and future compatibility. This complex includes a landfill, compost facility, material recovery facility, public drop-off facility, C&D facility, household hazardous waste facility, and compatible manufacturing and a pilot-study areas. Lyndsey was involved in development of the concept designs, stakeholder engagement materials, and technical analyses. She completed a multi-objective decision analysis and assisted with the preparation of a financial forecast for the three options that were initially evaluated as part of this project. She also recently assisted the team that conducted the necessary environmental review consistent with the California Environmental Quality Act (CEQA).

Organics Processing Service Contract Procurement Support | City of Tacoma | Tacoma, WA | 2021 to 2022.

Lyndsey managed this project which provided the City with assistance identifying and evaluating different options for procuring organics processing services and then developing the associated RFQ and RFP to procure those services. Lyndsey participated in the strategy discussions, development and review of procurement documents, proposal evaluation, and contract negotiation support.

Metro Transfer Station Operations Consulting and Procurement Assistance | Metro | Portland, OR | 2018 to 2019 | Assistant Project Manager.

Phase I of this project included research and benchmarking of contracting and operations at several high-performing transfer stations. Research topics included a variety of topics spanning from diversity, equity, and inclusion to pricing and recovery. This research informed procurement documents prepared to replace previous Metro transfer station operations contracts expiring in 2019. Lyndsey provided assistance during the research and benchmarking phase, the development of the RFP, during the evaluation phase.

Zero Waste Plan and Sustainable Materials Management Programs | Guam EPA | Guam | 2019 to Present | Senior Solid Waste Planner and Technical Reviewer.

Providing technical support to design, plan, develop, and implement Guam's Zero Waste Plan and other sustainable materials management programs. Reviewed the existing solid waste program against new legislative requirements, identified gaps, and made program recommendations to meet the new regulatory requirements. Assisting the client to prioritize, implement, and evaluate zero-waste initiatives. Developed a guidance document on how to assess food wastes in small island communities, conducted an assessment for Guam following guidance, and prioritized food waste demonstration projects and other follow -on actions.

County of Kauai Integrated Solid Waste Management Plan (ISWMP) | County of Kauai | Kauai, HI | 2019 to 2021 | Senior Solid Waste Planning Consultant.

Lyndsey guided the overall project team in this effort and led the research and preparation of several sections of this plan. She led the preparation for and facilitation of multiple Solid Waste Advisory Committee meetings, meetings with the Mayor, the Public Hearing, and presentations to County Council. The ISWMP update was prepared pursuant to the Hawaii Revised Statutes (HRS) Chapter 342G.

City and County of Honolulu Integrated Solid Waste Management Plan (ISWMP) | City and County of Honolulu | Honolulu, HI | 2017 to 2019 | Senior Solid Waste Planning Consultant.

Lyndsey guided the overall project team in this effort and led the research and preparation of several sections of this plan including the Source Reduction, Recycling and Bioconversion, Public Education and Outreach, and Marketing sections. Sections included: a review of current practices, future strategies. Lyndsey was also responsible for presenting materials and gathering feedback from the Solid Waste Advisory Committee and interested members of the public. The ISWMP update was prepared pursuant to the Hawaii Revised Statutes (HRS) Chapter 342G.

Metro Transport and Disposal Evaluation & Procurement Assistance | Metro | Portland, OR | 2017 to 2019 | Assistant Project Manager.

Phase I of this project included research and evaluation of multiple transport (truck, barge, and rail) and disposal options (various landfill types and the nearby energy from waste facility) for the solid waste generated in the Metro Region, to prepare for the prior contract's expiration in 2019. This information was used to develop the procurement strategy for Phase II, which included sharing information with decision makers and providing technical assistance with procurement document preparation and proposal evaluation. Lyndsey assisted with research, evaluation, site tours, interviews, preparation of procurement documents, participation in proposal evaluation.

HAROLD L. BOOKER JR., PMP, CSM

PMIS Specialist

YEARS OF EXPERIENCE

10

EDUCATION

BA, International Studies with concentration in Business and Economics, Morehouse College

CERTIFICATIONS

Project Management Professional (PMP) #2159172, 2018

Certified Scrum Master (CSM)- Certificate #844780, 2018

Lean Six Sigma, Yellow Belt, 2019

Generative AI Overview for Project Managers, PMI, 2023

PROFESSIONAL AFFILIATIONS

National Urban League Young Professionals, VP of Membership and Finance Committee

Morehouse Alumni Association, Baltimore Chapter Secretary

Project Management Institute (PMI)

With over a decade of experience as a subject matter expert and implementation consultant in financial and project management software, Mr. Harold L. Booker Jr. has supported customers through the entire Software Development Life Cycle (SDLC), from requirements gathering to operations and support. His expertise encompasses cloud and on-premise software, Software as a Service (SaaS), custom application development, project management information systems (PMIS), capital project controls, loan syndication, and construction program management (e.g., e-Builder). Harold has successfully served over 40 clients globally, providing upgrades, integration add-ons, and full end-to-end implementations across sectors including state and city government, banking, education, transportation, and non-profit. Proficient in tools like Microsoft Suite, Slack, OpenAir, Confluence, Salesforce, JIRA, ADP, Monday, and HubSpot, he utilizes methodologies such as SDLC, Scrum, Agile, and Lean Six Sigma to maximize efficiency. He is also well-versed in financial and enterprise resource planning (ERP) systems including Munis, Oracle, SAP, and PeopleSoft.

Experience includes:

OnIndus, Senior Tech Lead: Harold led system analysis for perspective project controls and construction project management systems. He provided reports on current state/existing GAPs analysis; managed teams ranging from two (2) to six (6) Business Systems Analysts; and directed full scale PMIS implementations (i.e., discovery, design, testing), integrations, software customizations, change management, training campaigns, and post go-live support efforts. Relevant projects include the Illinois Capital Development Board e-builder Implementation and the Massachusetts Bay Transit Authority's e-Builder Implementation, Phase 4.

e-Builder, Senior Project Manager: In this role, Harold managed the design, development, and implementation of projects, including defining project/scope requirements, identifying project staffing requirements and forming project teams. He conducted project kickoff meetings, communicating individual roles and expectations to all project members and ensuring they each have the tools and training required to perform their roles safely and effectively. Harold developed detailed project plans and schedules using Microsoft Project and NetSuite OpenAir. He also defined objectives, identified metrics to assess progress/success, and closely monitored project milestones to identify critical dates and any potential risks to the project schedule. Relevant projects include the City of Miami's e-Builder Implementation, City of Edmonton e-Builder Implementation, and the Massachusetts Bay Transit Authority's e-Builder Implementation, Phases 2 & 3.

e-Builder, Project Manager: Harold managed over 15 projects through the full project life-cycle, including business scoping, project plan development, requirement refinement and change control, configuration, and quality assurance. Responsibilities included simultaneously managing three (3) to five (5) project teams each consisting of two (2) to six (6) Business Systems Analysts across various functions; negotiations; providing regular project status updates and communications to project stakeholders; risk management assessments; resolutions facilitation; and initiation of daily standups, estimating and planning, and project status meetings with each project team. Waterfall, agile, or hybrid approaches were utilized based on scope, client need, and budget. Relevant projects include the City of Santa Clara e-Builder Implementation and the Chicago Department of Aviation's e-Builder Implementation.

e-Builder, Business Solutions Manager: In this role, Harold defined and wrote software requirements, user stories, testing plans, training documentation, and go-live deployment activities for SAAS applications; he facilitated bidding/procurement, budgeting, funding, contract management, business process mapping, and change management; supported training activities for groups of 20 or more; and provided helpdesk support services using Salesforce CRM and Jira to assist customers from intake through resolution. He brings extensive knowledge of contract management activities including IDIQ, blanket agreements, requisitioning, purchase orders and change order management. Relevant projects include the Virginia Railway Express' e-Builder Implementation and Metro Gold Line's e-Builder Implementation.

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.5 Approach to Scope of Work

4.2.5 Approach to Scope of Work

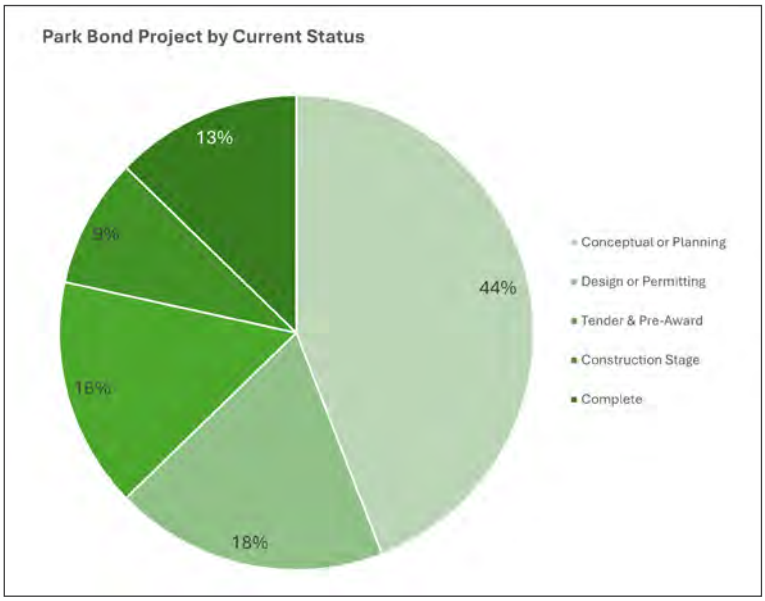
Overview

The Parks Bond Program, initiated following the Fort Lauderdale City Commission's 2016 approval of a comprehensive Parks and Recreation System Master Plan developed with extensive community input, aims to address prioritized park improvements across the City. The Parks and Recreation System Master Plan outlines a comprehensive strategy for the development and enhancement of parks and recreation facilities, with the majority of work planned for completion over a 10-year period. Our review has surfaced the following key components:

- **Acreage and Facility Level of Service (LOS):** The plan aims to maintain an LOS of 5.43 acres per 1,000 residents, requiring the addition of 177 acres by 2040.
- **Facility Improvements:** Prioritizes upgrades to existing facilities, development of new trails, and enhancement of security.
- **Community Involvement:** Emphasizes the importance of community input in shaping priorities.
- **Funding and Phasing:** Estimated cost of $176M in 2016 dollars for complete implementation, with funding sources including grants, park impact fees, and bonds.

Since then, City residents approved a bond measure in 2018, which authorizes $200M to fund upgrades at over 90 parks across the city. Implementation commenced in the Fall of 2020. The City's prioritization efforts led to selecting four signature parks and 39 additional parks for inclusion in Phase 1 of the Parks Bond program. In March 2021, the Parks, Recreation, and Beaches Advisory Board approved the advancement of Phase 1 parks, which the City Commission subsequently endorsed in May 2021. In December 2021, the Parks, Recreation, and Beaches Advisory Board approved the progression of 33 parks into Phase 2 of the Parks Bond program.

While significant progress has been achieved toward realizing these enhancements, our analysis indicates that much work remains to be done. Approximately 13% of the 98 parks in the City's current portfolio are complete, with another 9% presently in construction and another 16% either in purchasing or awaiting Notice-to-Proceed (NTP). The City would, therefore, benefit from a Program Manager with the ability to aggressively expedite the remaining 62% of projects that are still in the planning and design stages while actively managing the flow of projects into the construction stage.



Our approach to the program, therefore, begins with a thorough review and refinement of the existing Master Plan, incorporating valuable feedback from city officials and project stakeholders, with the objective of finding ways to expedite each project in balance with the City's processing capacity. This collaborative process ensures that the final plan aligns seamlessly with the vision and expectations of all stakeholders.

We also have the strength in numbers and expertise to fully perform the program scope internally. Drawing on the extensive experience of our dedicated team in successfully managing programs and projects of a similar scale and complexity, we are organized to bring a high level of expertise and adaptability to tackle the unique challenges to getting the program back on track.

That's why our design team is organized into **Landscape/Hardscape design teams and Vertical Facilities design teams**. This approach not only helps to immediately begin expediting design work, but it is also informed by **design professionals who have the local experience and cultural acumen to understand the importance of expediting the program while enhancing the aesthetics of parks at the project level and constructing to ensure safe spaces for users to enjoy the amenities.**

Moreover, in addition to expediting design performance of this program, our design teams are committed to engaging in bioclimatic architecture and climate-responsive design to drive down cost and schedule while enhancing aesthetic value to the community. We strive to integrate natural elements and local climate conditions into our designs to create energy-efficient, comfortable, and environmentally friendly spaces. **Innovation is central to our methodology, as we focus on developing creative solutions tailored to the dynamics of Florida's climate, ensuring that the design remains functional and resilient.**

The core of our team is our Project Management and Construction Management professionals, who not only manage projects and solve problems 24/7, but who also enhance efficiency and transparency by working with CES's advanced technology systems to centralize project data. This includes utilizing dynamic **Project Management Information Systems (PMIS)** and integrating their data into real-time dashboard-style Key Performance Indicator (KPI) analytics platforms, thereby allowing for continuous performance monitoring and data-informed decision-making throughout the program's lifecycle. **Our approach ensures forward-thinking and impactful outcomes to benefit the residents of the City by combining strategic planning, technical proficiency, transparent performance and innovative thinking.**

Experience of the Team on Projects with Similar Scopes

As the local, hometown team, CES team members have had the privilege of supporting other cities in the region with the development of a wide range of impactful park projects, including many in the City of Doral and the City of Miami, which have been similarly funded through bond initiatives, state and federal grants, and other sources of municipal funding. These projects have allowed us to contribute to the enhancement of community spaces, promote wellness, and improve the quality of life for residents across South Florida.

As part of our Program Management services, we have provided comprehensive project and construction management services for both new developments as well as renovations. From the expansion of the Dr. Armando Badia Senior Center at Flagami Park to the creation of vibrant aquatic facilities at Elizabeth Virrick Park and West End Park, our work has focused on delivering inclusive, accessible, and engaging environments for all age groups. Our efforts have also included the transformation of neighborhood parks like Fairlawn and Shenandoah, where we oversaw the addition of playgrounds and sports courts.

In addition to helping our clients with their construction management needs, we have also played a key role in the 40- and 50-year recertification of park structures, ensuring safety and compliance with updated building codes. This includes work at historic sites such as Virginia Key Beach Park and Charles Torrey Simpson Memorial Park.

Likewise, our involvement in large-scale, transformative projects like the I-395 Underdeck and the Bay of Pigs Memorial Park also reflects our commitment to creating spaces that honor history, foster community pride, and support urban revitalization.

Through each project, we have remained dedicated to excellence in planning, coordination, and execution, working closely with municipal owners to bring these visions to life.

Innovative Design Solutions

Innovative solutions are redefining how parks serve communities—enhancing sustainability, accessibility, and user experience through forward-thinking methods. Our proposed Program Manager, **James (Jim) P. Wille, CGC**, and our proposed Deputy Program Manager, **Eugene Collings-Bonfill, PE, PSM, PMP**, worked on the City of Doral's General Obligation Parks Bond Program, a $200M program with a complex scope. Jim's and Eugene's collaborative efforts on the City of Doral program resulted in a range of innovative and practical enhancements aimed at improving the overall experience for residents and visitors alike. Among the notable solutions were the following:

Green Infrastructure

» Incorporate rain gardens and urban tree canopies for improved environmental benefits.

Smart Technology and Data Integration

» Utilize smart lighting systems, such as motion-activated or solar-powered lights, to enhance safety and energy efficiency.

» Install environmental sensors to monitor air quality, temperature, and noise levels.

Inclusive and Intergenerational Design

» Create universal playgrounds equipped with ADA-compliant and sensory-rich equipment suitable for all ages and abilities.

Community and Cultural Expression

» Feature art installations, including murals created by local artists, to reflect community identity.

Connectivity and Mobility

» Ensure the park is accessible through public transportation, aligning with bus and trolley routes to promote equity and reach.

Proposed Vision & Design Challenges

Proposed Vision

Design and construct sustainable, climate-resilient parks by incorporating energy-efficient systems, water conservation, and adaptive infrastructure. These parks will feature Florida-friendly landscaping, support biodiversity, mitigate urban heat, and include resilient features such as stormwater management, elevated structures, and infrastructure ready for renewable energy and electric vehicle integration, ensuring long-term environmental and community well-being.

Should the City need us to expedite design work, we have organized our Program Team's design group into Landscape/Hardscape design teams and Vertical Facilities design teams. Both design teams are dedicated to bioclimatic architecture and climate-responsive design. During the preparation of this proposal, team members brainstormed principles we would like to incorporate into our designs.

» **Site-Specific Design:** Topography, soil, and hydrology are studied to shape the layout. Natural landforms are preserved or enhanced to manage water flow and erosion.

» **Climate-Responsive Planning:** Sun and shade, trees, pergolas, and landforms are placed to provide shade in hot climates and allow sun in cooler seasons. Vegetation and structures are used to channel breezes or block harsh winds.

» **Water Management:** Rain gardens, bioswales, and permeable surfaces should manage stormwater naturally. Native or drought-tolerant plants to reduce irrigation needs.

» **Native and Adaptive Planting:** Plants will be chosen based on local climate and ecology, supporting biodiversity and reducing maintenance. This also helps create resilient ecosystems that thrive with minimal intervention.

» **Microclimate Creation:** Trees, water features, and terrain will be considered in our design to create a cooler microclimate in hot areas. This will improve visitors' comfort and support diverse plant and animal life.

» **Sustainability and Regeneration:** The use of recycled materials, solar lighting, and natural drainage systems. Our design aims to restore degraded landscapes or reconnect fragmented habitats.

» **Cultural and Ecological Integration:** This principle incorporates local cultural practices and indigenous knowledge about the land and weather. We want to enhance the sense of place and community connection to nature.

Design Challenges

Designing parks and landscapes in Fort Lauderdale presents unique challenges due to our climate, geography, urban density, and environmental regulations. Some key challenges and our strategies to overcome them include the following:

Climate and Weather Extremes

- **Challenge:** Fort Lauderdale's hot, humid climate and frequent storms (including hurricanes) can stress plant life and damage infrastructure.
- **Potential Solutions:** Use native and Florida-friendly landscaping plants that are drought- and salt-tolerant. Design with storm-resilient trees (e.g., live oaks) and deep root systems to reduce windthrow. Incorporate permeable surfaces and bioswales to manage heavy rainfall and reduce flooding.

Flooding and Sea-Level Rise

- **Challenge:** Fort Lauderdale is highly vulnerable to flooding and sea-level rise as a coastal city.
- **Potential Solutions:** Elevate park features and use green stormwater infrastructure like rain gardens and retention ponds. Integrate living shorelines and mangrove buffers in waterfront parks. Follow floodplain management regulations and consult the City's Flood Hazard Mitigation Plan.

Tree Preservation and Urban Heat

- **Challenge:** Balancing development with tree preservation and mitigating the urban heat island effect.
- **Potential Solutions:** Adhere to the City's Tree Preservation Ordinance and landscape codes. Increase canopy coverage with shade trees and use Silva Cells or similar systems to support root growth in urban areas. Design shaded walkways and seating areas to improve comfort.

Limited Space in Urban Areas

- **Challenge:** High-density development limits available space for green areas.
- **Potential Solutions:** Use vertical gardens, green roofs, and pocket parks in tight urban spaces. Convert underutilized lots or rooftops into community green spaces. Promote multi-use spaces that serve both recreational and ecological functions.

Community Needs and Equity

- **Challenge:** Ensuring equitable access to green spaces across diverse neighborhoods.
- **Potential Solutions:** Engage communities in planning to reflect local needs and culture. Prioritize park development in underserved areas. Include universal design principles for accessibility.

Sustainability and Climate Adaptation/Resiliency

CES has been at the forefront of developing sustainable, resilient facilities that respond both to concerns about the potential impacts of sea-level rise on coastal communities and about the need to control the costs of energy use and future maintenance of the constructed environment. **CES has been involved in planning and designing of projects with sustainable protocols**, including energy-efficient motors for pump stations and other operating equipment; variable speed drives for equipment motors; grass swales in urban areas to reduce stormwater runoff and improve water quality; streetscape designs that incorporate less concrete paved surfaces and sustainable landscape plantings; energy-efficient lighting for public spaces and roadways; development of water reuse facilities and pipelines; cost of service structure for utilities that promote conservative use by customers; expansion of public transportation; improvement in bicycle and pedestrian access to local business and parks; permeable pavement for stormwater management; low water irrigation, drought-tolerant landscaping; reduction in fertilizer usage to improve surface water quality; and retrofit of facilities and residences with water-efficient fixtures.

Jacobs, a CES team member, has provided planning, design, construction management and environmental services to the National Park Service (NPS) for more than 52 years. As a trusted designer, they work with the NPS to strengthen and protect America's awe-inspiring and historically significant cultural and ecological resources. Through sustainable solutions, Jacobs aims to strengthen today's parks and prepare them for the future. **As an active participant in the National Parks Conservation Association, they have worked to advocate for more than 4,000 landscapes, seashores and cultural and historical places.** Their professionals assess the entire landscape of the park—from facilities and infrastructure to natural and cultural resources—and consider how they can create resilient solutions that will have minimal impact on day-to-day operations.

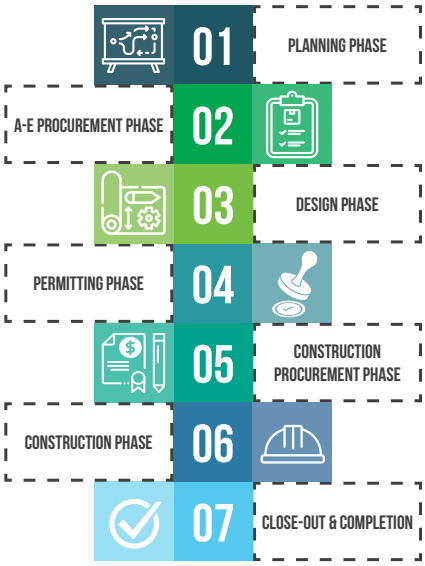
As leaders in sustainable practices, Jacobs plays a pivotal role in addressing urgent environmental and climate change challenges impacting the parks. Using their knowledge of the Comprehensive Environmental Response Conservation and Liability Act (CERCLA), their teams deeply understand each park's complex ecosystem while continually considering the visitor experience and protection of these valuable natural assets. Similarly, Jacobs' understanding and application of evolving National Environmental Policy Act (NEPA) practices help them understand the carbon footprint of each project and, conversely, how the changing environment can affect proposed projects. Their teams use this expertise to identify ways to include sustainable designs and incorporate resilient practices into many park projects across the country.

Additionally, **Susanne M. Torriente**, who will provide Climate Adaptation/Resiliency services, is experienced in breaking down complex issues into manageable solutions, fostering collaboration and integrating resilience and climate adaptation into interdisciplinary teams, policies and projects. Susanne's career highlights include the following:

- Served as Assistant City Manager in Fort Lauderdale and Miami Beach, leading a portfolio of departments including sustainable development (building, planning, zoning, economic development, community development), transportation and mobility, environment and sustainability, public works and capital improvement, housing, and parks).
- **More than 30 years of experience, with the last 15 years specializing in sustainability, climate adaptation and resilience integrated planning.**
- Eight years as Miami-Dade County Assistant County Manager for Public Safety and Emergency Management.
- **First Miami-Dade County Sustainability Director.**
- **First Miami Beach Chief Resilience Officer.**
- **Founding member of the Southeast Florida Regional Climate Compact that includes Broward, Miami-Dade, Monroe, and Palm Beach Counties; served as a County representative and City representative.**

PM/CM: Management & Oversight

Vision: A Consistent Methodology for Managing Each Project and Ensuring Accountability from NTP to Final Completion/Close-Out



Over our nearly quarter-century helping public agencies manage their infrastructure programs, CES has learned that successful construction demands intentional front-end planning and disciplined execution throughout every phase—from concept to completion. Over the years, CES has honed a structured, reliable project and program management process that emphasizes control over scope, schedule, and budget to ensure facilities are delivered with confidence, predictability, and long-term value.

Should we have the honor of being selected to serve you, the City can rely on CES to apply the same rigor, foresight, and leadership we bring to every Capital Improvement Program. The following methodology describes what you can expect from CES at each stage of the program management process. Although we recognize the City has already completed 13% of planned projects, we believe it is worthwhile revisiting what you can expect from CES for the remaining 87% of projects, irrespective of what stage we are involved at.

Phased Program Management Methodology

CES usually begins by facilitating stakeholder workshops to define project goals, desired outcomes, and municipal system integration strategies. We establish alignment among City leadership and the community regarding project vision, preliminary schedule, and performance benchmarks—setting the foundation for informed decisions throughout the project lifecycle.

CES works with the City to determine whether contracting external design consultants or performing the designs in-house is most advantageous to planned program outcomes. Should the City wish to contract externally, CES can help develop procurement strategies and contract documentation to support the selection of design partners. We can prepare RFQs using City templates and provide them to the Purchasing Department to relieve production pressures on the City's Purchasing Department in alignment with the program's schedule. Our team can assist with due diligence, interview coordination, technical assessments, and contract negotiations to secure the best team for each project.

If the City determines that it is most advantageous to perform the design in-house, CES will still develop scope and work order documentation to subcontract our specialized partners to expedite the design.

CES Project Managers work closely with each design team to ensure City intent, community priorities, constructability, and sustainability goals are reflected in the design. We guide each design milestone—schematic, design development, and construction documents—through structured reviews for constructability, code compliance, cost validation, and stakeholder input.

CES oversees permitting coordination with local agencies by holding the designer, and later the contractor, accountable for securing all required permits on a timely basis. We support this process by reviewing plans for compliance, facilitating pre-submittal meetings, tracking long-lead items, and integrating permitting milestones into the overall program schedule to streamline approvals and minimize delays.

CES can assist the City with various procurement strategies to expedite the program. We can also help alleviate pressure on the City's Purchasing Department by utilizing the City's front-end contract documentation and the A-E's design plans and specifications to support the selection of qualified and capable construction partners. Our team can also assist the City with logistics coordination, technical assessments and contract negotiations to secure the best team for successful project delivery.

CES's Construction Managers and Inspectors provide vigilant oversight throughout the construction phase to ensure each project is delivered within budget while adhering to the approved design intent. We arrange and help the City conduct Owner-Architect-Contractor (OAC) coordination meetings, manage the flow of communication between all parties, and monitor progress against key milestones. CES will review contractor submittals, RFIs, change order requests, and pay applications to maintain quality control and fiscal discipline. Our role includes tracking adherence to safety standards, mitigating construction risks, and ensuring all work is executed with minimal disruption to the community. Through proactive engagement and construction phase leadership, CES helps deliver a high-quality, on-schedule, and cost-controlled project—consistent with the collaborative CMAR model.

As each project nears substantial completion, CES's Construction Management team oversees punch list completion and system commissioning (if any). We help manage the transition to operations, schedule final inspections, and ensure staff training is completed—facilitating a seamless operational launch.

CES drives project completion with comprehensive project reconciliation, including financial audits, as-built documentation, warranty protocols, and contract closeout. We ensure all deliverables are complete, lessons learned are documented, and long-term maintenance and warranty procedures are clearly communicated—providing the City with full confidence in the quality and completeness of its new parks and park facilities.

Staffing & Workload

To ensure adequate staffing availability and effectively meet the demands of the project workload, CES has dedicated key personnel to focus exclusively on the program. CES, in collaboration with our strategic multi-disciplinary partner Jacobs, leverages a robust pool of professionals ready to scale up or scale down as needed to help expedite this program. By engaging in proactive front-end planning, CES mitigates unforeseen challenges and creates precise staffing forecasts tailored to project needs.

The CES Team has the capacity to support the City throughout the life of the contract. Our current workload and available staff resources allow us to handle multiple tasks concurrently. CES holds weekly operational meetings to discuss staffing for our current and future workload based on the Project Management, Backlog, and Look Ahead reports generated by our Acumatica software, which keep us constantly updated on our current and future staffing needs. Throughout the life of this contract, we will manage the required human resources to complete the work for the City. The CES Team will be fully available and committed to the City to ensure successful implementation and delivery of any task order assigned. The CES Team will be highly responsive and accessible and will communicate proactively to keep projects moving, to avoid surprises, and to mitigate delivery risks.

Program Controls, Budget Management, Cost Control & Scheduling Methodology

Analytics-Driven Program Management Approach

Effective programs require careful front-end planning, which starts with a comprehensive understanding of the owner's needs, goals, and priorities. The CES Team has developed a structured front-end planning process distinctly within the local program management industry. Our approach stands out for several reasons. Unlike most program management methods that jump into design and construction without fully appreciating the connection between Project Analytics, Scheduling, and Cost Control, our approach allows the project stakeholders to identify, manage, and maintain cost and schedule certainty before construction begins.

Our methodology combines real-time data analytics and performance tracking to support data-driven decisions, ensuring the program is delivered on time and within budget. Our approach emphasizes two key concepts: the "Baseline Estimate Approach" and "Real-Time Analytics."

Baseline Estimate Approach requires that what is designed, procured, and/or constructed is in strict accordance with the estimate, schedule, and approved changes. This process brings discipline and accountability to the cost and delivery of services and materials throughout each project by:

» Establishing a detailed and accurate schedule and estimate at the start of the project. The level of detail for the schedule and estimate will be developed using the AACE Estimate and Schedule Level Classification System.

Description	AACE Estimate Class	% Design	Schedule Level	Recommended contingency
Detailed	Class 1	75-100%	Level 1 – Management Level Level 2 – Program/Project Level Level 3 – Control Level	3-5%
Definitive	Class 2	40-75%		5-15%
Preliminary	Class 3	15-40%		10-30%
Conceptual	Class 4	2-15%		15-50%
Order of Magnitude	Class 5	0-2%		25-100%

» Continuously monitoring each project activity and decision in relation to the functions, scope, cost, and schedule outlined in the estimate.

» Reviewing the current project scope, quantities, costs, and schedule against the estimate at key milestones or defined phases throughout the project.

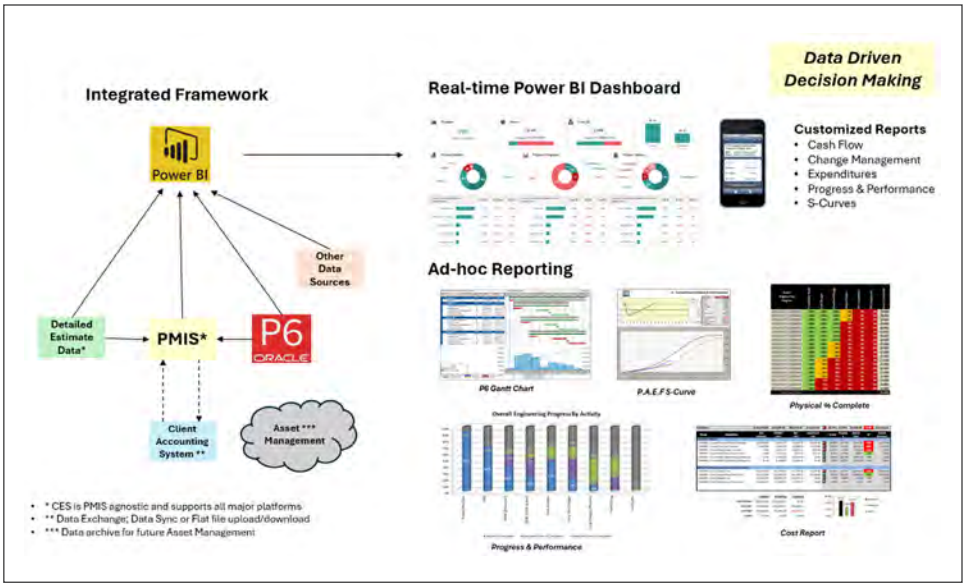
» Implementing a proactive change management process to accommodate any approved exceptions to the estimate.

Project stakeholders, along with input from the client and other subject matter experts, will contribute to creating the scope, schedule, and estimate, which will serve as the project baseline for monitoring throughout Planning, Design Development, Procurement, and Construction. This approach accelerates scope definition and project alignment, establishing the cost and schedule certainty framework.

Real-Time Analytics requires that all project information be centralized or integrated to facilitate real-time reporting. Rather than waiting for a monthly progress report, our dashboards allow the City representative to brief commissioners in real time, showing how the program and projects are trending relative to budget, milestones, grant captures, and strategic outcomes.

At the program's kickoff meeting, we will collaborate with City staff to define key performance indicators (KPIs) with a focus on cost control, funding, delivery speed, sustainability, equity, and any other metrics necessary to not only maintain tight control over the program and its projects, but also demonstrate City achievement of its intended outcomes. Additionally, we can develop the various dashboards the City needs to serve different audiences. For example, we anticipate creating an internal dashboard for daily project decision-making and a public dashboard to keep City officials and their constituents informed.

A Project Management Information System (PMIS) offers significant advantages to our clients by simplifying and streamlining project data, providing a single source of truth for decision-making. A PMIS is the key component for Real-Time Analytics. CES is agnostic to software platforms, allowing us to maximize the use of any PMIS or deploy a secure cloud-based solution, hosted externally, to integrate various data sources into our dashboards.



To ensure complete alignment of our program controls methodology, upon award, the CES Team intends to:

- Facilitate a working session with key stakeholders to determine:
  - Requirements to enhance the Master Plan.
  - Obtain the status of the Parks Bond projects.
  - Feedback on key issues and pain points to avoid.
  - List of other key stakeholders.
  - Discuss KPIs.
- Analyze systems of records and provide recommendations on how to centralize project information to achieve real-time reporting.
- Review, revise, or create an integrated master schedule with all projects identified on the Master Plan.
  - CES will engage in rolling wave planning, an iterative planning method in which the work to be accomplished in the near term is planned in detail, while the work in the future is planned at a higher level.
- Reassess the budget of individual projects based on their design percent completeness, per the AACEI Estimate and Schedule Classification System.
- Review, revise, or create the project execution plan and project procedure manual [SOPs].
- Create project baseline documents.
  - Integrated Master Schedule.
  - Integrated Master Estimate.
- Create and deploy project dashboards.

CES's fully integrated team enhances the Parks Bond Program by providing real-time information, ensuring cost certainty, and anticipating necessary schedule changes. This enables projects to be delivered within their defined scope, budget, and timeline, as we can compare actual project performance against our plans. More importantly, our approach ensures that the program-level costs presented at the approval stage are consistently monitored and controlled, helping to avoid unexpected issues. This reflects our commitment to careful and structured planning.

Available Facilities

CES is a local firm with offices in South Florida, including one in Broward County, which allows us to quickly mobilize to a job site at any phase of a task.

Technological Capabilities and Other Available Resources

Please see the following page.

Technology and Integration Services

CES offers a comprehensive suite of services tailored to meet the diverse needs of our public-sector clients. Our Technology and Integration Team has a focus on innovation, efficiency, and stakeholder engagement. We are committed to delivering transformative solutions that drive sustainable growth and success. Technology and integration services available include:

ADVISORY SERVICES

Strategic guidance and insights to support informed decision-making and maximize organizational effectiveness.

DATA MIGRATION

Secure and efficient transfer of data between systems, ensuring data integrity and minimizing disruption to operations.

STRATEGIC PLANNING & IMPLEMENTATION

Development and execution of strategic plans and initiatives aligned with organizational goals and objectives.

SYSTEM INTEGRATIONS

Seamless integration of disparate systems to ensure data consistency, enhanced functionality, and interoperability.

FULL-CYCLE IMPLEMENTATION SERVICES

End-to-end support throughout the implementation lifecycle, from planning and design to deployment and optimization.

GEOSPATIAL SERVICES

Utilization of geographic information systems (GIS) to analyze spatial data, inform decision-making, and optimize resource allocation.

PROCUREMENT & OWNER REPRESENTATIVE SERVICES

Expert support throughout the procurement process and representation of client interests as an owner's rep.

CONTINUED PMO OPERATIONS SUPPORT

Seamless, continued support for project management office (PMO) operations to maintain project momentum and alignment with strategic objectives.

CHANGE MANAGEMENT SERVICES

Proactive management of organizational change minimizing resistance and ensuring successful adoption of new processes and/or technologies.

REPORTING & DASHBOARDS

Customized reporting solutions and interactive dashboards providing actionable insights to support data-driven decision-making.

IT PROJECT MANAGEMENT SERVICES

Comprehensive project management services ensuring successful delivery of IT initiatives on time and within budget.

END USER TRAINING

Customized training programs to empower users and maximize the utilization of technology solutions.

PROCESS DOCUMENTATION & MAPPING

Thorough documentation and visualization of processes enhancing understanding, transparency, and efficiency.

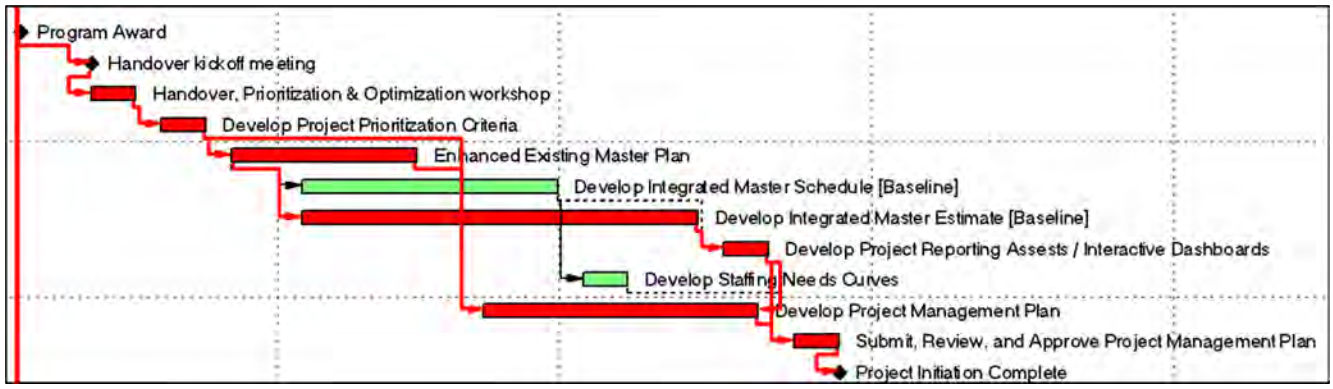
CONTINUOUS IMPROVEMENTS

Ongoing evaluation and enhancement of processes and systems to drive efficiency and effectiveness.

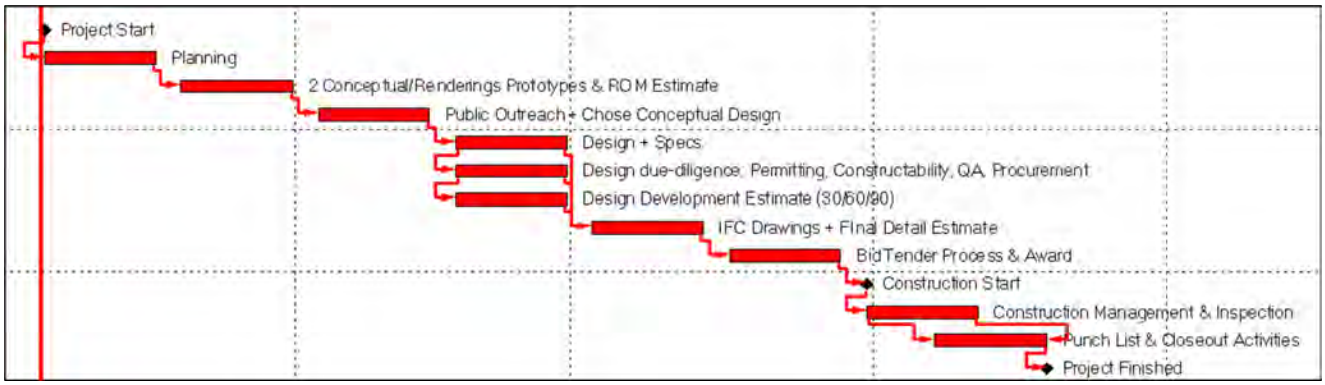
Schedule/Timeline

The schedules below are for illustration purposes only and do not include durations or additional activities required.

Sample Fast-Start Project Initiation Activities



Sample Project Fragnet



4.2.5.1 Project Management

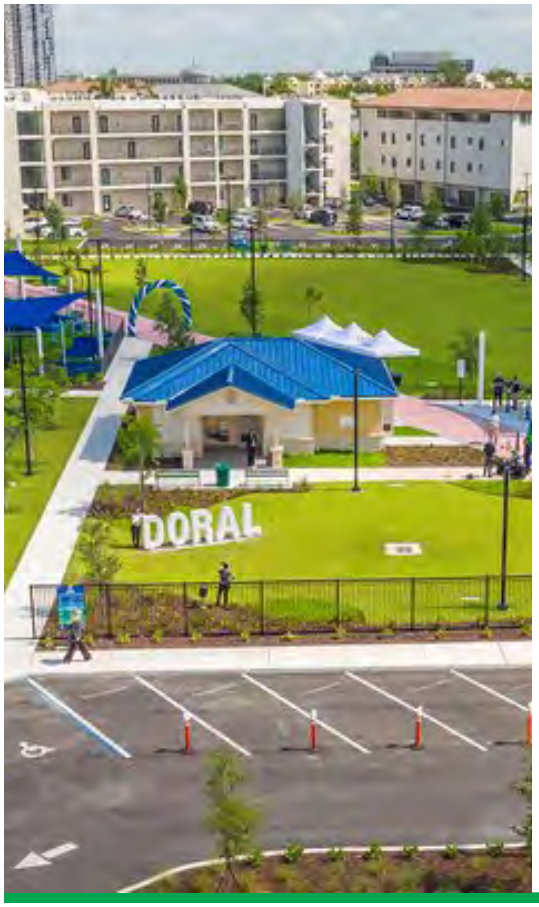
As demonstrated in the table below and on the following pages, over the past five years, our team has successfully planned, implemented, and managed a wide range of park, community building, and cultural center projects of comparable scope and complexity to the City's Parks Bond Program. Key examples include serving as a Program Manager for the City of Miami's expansion of the Dr. Armando Badia Senior Center at Flagami Park, delivering inclusive aquatic facilities at West End Park, and overseeing neighborhood park transformations such as Fairlawn and Shenandoah Parks.

Whether managing the program, planning, design or construction, our professionals have maintained strict control over scope, schedule, and budget. Our proposed Deputy Program Manager, **Eugene Collings-Bonfill, PE, PSM, PMP**, will serve in a supervisory capacity over our entire planning, design and construction teams, directly accountable for assigning projects and tasks to our Project Managers and Construction Managers and for mentoring the program team. Eugene's and **James (Jim) P. Wille, CGC's,** our proposed Program Manager, experience includes managing the Doral Cultural Arts Center project, a 9,000-SF pavilion with galleries and multi-purpose spaces, as well as complex facility remodels at Morgan Levy Park and Doral Meadow Park, all completed within the last five years. Eugene's **Project Management Professional (PMP) credentials**, coupled with CES's proven phased program management methodology, ensures that every project component will be delivered on time, with transparent reporting and rigorous quality control, to meet the City's objectives and timeline for this program. Additional details on Jim's and Eugene's qualifications and experience are included after the table.

Project Name and Location	Project Scope and Key Features	Completion Year
Optimist Park Redevelopment, Miami Lakes, FL	Managed planning and cost estimating services for redevelopment, including new 5,000-SF multipurpose building, baseball fields, Airnasium, courts, parking, landscaping, trails	2023
New Riverfront Plaza, Jacksonville, FL	Managed cost estimating of redevelopment with café/beer garden pavilion, restroom, landscaped roof, greenspace	2024
West End Park Improvements, Miami, FL	Managed cost estimating of new public park with community center, solar trees, playground, courts, pool, splash pad, trails	2021
Everglades Holiday Park Water Main Extension, Broward County, FL	Managed cost estimating of water main extension for park facilities	In progress
Shenandoah Park Improvements, Miami, FL	Managed planning, design and construction of park with Olympic pool, artificial turf sports fields, courts, community center	2025
West End Park Aquatic Facility, Miami, FL	Managed construction of pool, turf fields, courts, and community center	2025
Fairlawn Community Park, Miami, FL	Managed construction of dog park, outdoor exercise equipment, trails	2024 (Phase 1)
Badia Senior Center, Miami, FL	Managed planning and construction of improvements to senior center with adjacent park/landscaped areas	In progress
Doral Central Park, Doral, FL	Program management and management of design and construction of 78-acre park with aquatic center, community center, amphitheater, skate park, playgrounds, trails, courts, boardwalk, parking	2025

Project Name and Location	Project Scope and Key Features	Completion Year
Doral Meadow Park Improvements, Doral, FL	Program management and management of design and construction of expansion of indoor recreation spaces, high-tech conference room, kitchenette, façade treatments, green walls, indoor trophy case	2021
Doral White Course Park, Doral, FL	Program management and management of design and construction of putting green, picnic shelters, seating areas, outdoor fitness, off-leash dog areas, public restrooms	2022
Morgan Levy Park Renovation, Doral, FL	Program management and management of design and construction of 350-SF building addition, office expansion, new break room, security camera poles, kitchenette grease trap, landscaping	2021
Doral Cultural Arts Center, Doral, FL	Program management and management of design and construction of 9,000-SF cultural arts pavilion with gallery, multi-purpose room, courtyards, catering area, drop-off, restrooms	2024
Sunrise Sportsplex, Sunrise, FL	Managed design of baseball/softball fields, soccer fields, pavilions, playgrounds, lighting, concessions, parking	2020
Caporella Park Enhancements, Tamarac, FL	Managed design of playground, splash pad, boat launch, restrooms, parking, trails, fitness station, native landscaping	2023
Bluesten Park, Hallandale Beach, FL	Managed design of recreation center, pool, soccer field, baseball fields, basketball and tennis courts, ADA playground, trails, streetscape	2021
Veterans Memorial Park, Sunrise, FL	Managed design of memorial monuments, ADA playground, future obstacle course, landscaping	2024
Jaco Pastorius Park Expansion, Oakland Park, FL	Managed design of park expansion, gateway and fountain, community garden, festival site, grass parking, fencing, signage	2019
Mailman Segal Center Playground, Davie, FL	Managed design of nature-themed playground, interactive stream bed, educational garden areas	2023
Vista View Park Splash Pad, Broward County, FL	Managed design of splash pad for recreational water play	2021
Stunson Nature Trail Viewing Platform, Oakland Park, FL	Managed design of wooden viewing platform, boardwalk, native landscape restoration	2022
Indian Creek Greenway, Miami Beach, FL	Managed design of restoration of landscape buffers, pedestrian connectivity, native vegetation	2022

Project Name and Location	Project Scope and Key Features	Completion Year
Monarch Lakes Park Phase II, Miramar, FL	Managed design of custom splash pad, picnic shelter, parking lot expansion	2024
Sunset Strip Passive Park, Sunrise, FL	Managed planning and design of passive park with playground, open play fields, walking path, picnic areas, restrooms	2023
Belafonte Tacolcy Park 40-Year Recertification, Miami, FL	Provided construction management services for the structures at the 3.5-acre Belafonte Tacolcy Park	2025
Ronald Reagan Park, Miami, FL	Contract closeout oversight and coordination of 6-acre park (formerly named the PBA/Fern Isle Redevelopment project)	2024
Hadley Park Turf & Park Improvements, Miami, FL	Contract closeout oversight and coordination of 5.38-acre park, including a multi-purpose athletic field layout, fencing, fitness stations trail, pedestrian walkways, grading, site amenities, an ADA-accessible ramp, sodding and irrigation	2024
Bay of Pigs Memorial Park, Miami, FL	Project management for significant improvements to Bay of Pigs Memorial Park to better serve the community	2023
Douglas Park Dog Run and Walkways, Miami, FL	Project management and construction management of the new Dog Run and Walkways Enhancement and Replacement Projects	2025
STOF Skate Park Upgrades, Brighton Reservation, FL	CEI of Seminole Tribe of Florida project to refinish and recondition existing skate ramps; expand existing skate park concrete slab; new chain link fence and gates; new bleachers; new overhead Airnasium; plus, all associated MEP and civil/site work	2024
Garrett Wall Park, Warren County, NJ	Designed upgrades to historic park, including designs to replace all sidewalks, install decorative street lights, as well as improve stone paths within the park grounds	2021
Warren County Community College Recreation Trail, Washington & Franklin Townships, NJ	Designed the development of a 1.1± mile porous asphalt recreation trail to meet ADA accessibility standards, ensuring that the facility was usable by all people	2021
River Oaks Storm Basin Park Project, San Jose, CA	Designed 5.2-acre park to convert an existing facility to provide stormwater biotreatment via bioretention prior to discharge to the Guadalupe River	2025
Perez Biofiltration Park, Costa Mesa, CA	Planned, designed and managed construction of conversion of a vacant house lot into a children's park that doubles as stormwater biofiltration to reduce neighborhood flooding	2021
Greynolds Park Sea Level Rise Flood Mitigation Strategy, Miami, FL	Evaluated 23 park facilities and developed flood mitigation strategy against 2040 & 2070 100-year storm events and 2100 king tide sea-level rise projections	2021
Parks & Recreation Sports Field Lighting Replacement, Palm Beach County, FL	Program and construction management of multi-phase replacement of over 3,500 existing metal halide light fixtures with 1,650 LED fixtures on 460 existing poles at 159 venues located in 17 parks throughout Palm Beach County	2024
Esther Mae Armbrister Park, Miami, FL	Subsurface exploration and geotechnical engineering services for a 4.4-acre park, demolition of existing community center and construction of a new 10,000-SF two-story facility with an outdoor pavilion	2023



James (Jim) P. Wille, CGC
Program Manager

Jim is a seasoned construction executive with **40 years of experience overseeing large-scale commercial, institutional, and government infrastructure projects.** He brings a proven track record of leading complex, high-value programs, ensuring seamless execution from planning through project completion. Jim has managed multibillion-dollar construction programs across aviation, healthcare, education, justice, and public assembly sectors. **His leadership has been instrumental in the successful delivery of major infrastructure projects,** including municipal upgrades, large-scale medical facilities, sports venues, and corporate headquarters. With a deep understanding of public-private partnerships and capital improvement programs, Jim excels in navigating regulatory requirements, risk management, and operational logistics to drive project success.

Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities for the City of Doral's General Obligation Parks Bond Program, a $200M program with a complex scope. He managed the program to a successful outcome, with projected savings of more than $9.8M as of March 2025 and completing projects on time and under budget.

Eugene Collings-Bonfill, PE, PSM, PMP
Deputy Program Manager

Eugene brings **26 years of comprehensive experience** in the engineering and construction industry, with expertise spanning surveying, engineering design, program and project management, and construction oversight. His career has been largely focused on municipal infrastructure, with a strong emphasis on parks and public spaces. **Notably, Eugene was assigned under the Doral City Manager as Project Representative to oversee the City's General Obligation Parks Bond Program for Doral, which included the design and construction of various projects citywide for the enhancement of the City's parks.** Eugene was responsible for the day-to-day planning, coordination, and execution of multiple park improvement projects under the bond initiative. **His proven ability to manage complex, multi-stakeholder projects within a public agency framework makes him qualified to support the City of Fort Lauderdale's Parks Bond Program. He understands the importance of aligning project delivery with bond compliance, community expectations, and City objectives—ensuring transparency, fiscal responsibility, and timely execution across all phases of program implementation.**


Project Management Institute.

THIS IS TO CERTIFY THAT

Eugene Collings-Bonfill

HAS BEEN FORMALLY EVALUATED FOR DEMONSTRATED EXPERIENCE, KNOWLEDGE AND PERFORMANCE IN ACHIEVING AN ORGANIZATIONAL OBJECTIVE THROUGH DEFINING AND OVERSEEING PROJECTS AND RESOURCES AND IS HEREBY BESTOWED THE GLOBAL PROFESSIONAL CERTIFICATION

Project Management Professional (PMP)®

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE

Ike Nwankwo, PMP® | Chair, Board of Directors

Pierre Le Manh | President & CEO

Certification Number: 1620706 Original Grant Date: 22 June 2013 Expiration Date: 22 June 2018

4.2.5.2 Public Engagement Plan

Purpose and Goals of Public Outreach

The City's Parks Bond Program is an investment that touches every neighborhood and visitor experience across Fort Lauderdale. A focused public outreach strategy will keep this transformation rooted in community priorities—by maintaining clear lines of communication, capturing up-to-date local insights that inform creative placemaking, reinforcing local identity, and integrating sustainability and climate resilience goals. This approach will also show exactly how bond dollars translate to better, more vibrant, and enduring spaces for all communities and demographics across the City.

At project kick-off, our team will deliver a Public Engagement Plan that details stakeholders, anticipated issues, communication methods, and progress-tracking tools. This living document will anchor program outreach from Day One, ensuring every voice is heard and every milestone is shared.

Guiding Principles

Effective public engagement is built upon foundational principles that foster trust, inclusivity, and meaningful participation. These values guide every interaction, ensuring the Bond Program remains transparent, accessible, and responsive to the community's needs.

- **Clarity:** Communicate in plain language—free of jargon—with visuals and consistent branding to ensure broad understanding of how projects will enhance community spaces.
- **Inclusion and Accessibility:** Engage every voice by providing multilingual materials (English, Spanish, Haitian Creole), ADA-compliant platforms, and culturally sensitive outreach to underrepresented groups.
- **Convenience:** Meet residents where they are—physically and digitally—through pop-up events, community gatherings, and mobile-friendly tools, reducing barriers to participation.
- **Transparency and Accountability:** Share real-time updates via public dashboards, document all feedback, and demonstrate how community input directly influences the future growth and identity of their neighborhoods.

Engagement Framework

A four-phase sequence will keep outreach activities tightly aligned with the design and construction timeline while giving residents multiple, convenient chances to shape outcomes and track progress. Targeted and interactive engagement will confirm desired park identities and gather perspectives on integrating potential sustainability and resilience features.

Garth Solutions, Inc. (GSI)

Garth Solutions
Thinking beyond the box

GSI will lead our team's Public Engagement efforts. GSI has spent over two decades building a legacy of excellence in the public sector. **They have 20 years of public outreach experience across South Florida.**

GSI's in-house talent of web designers, graphic designers, copywriters, and public outreach coordinators enables them to positively impact projects for municipalities. **Notably, for the City of Fort Lauderdale, they provided comprehensive community outreach services for both the Las Olas Beach Park Project and Pompey Park.**

GSI plays an integral role as the lead public outreach consultant on project engagements throughout Broward and Miami-Dade Counties. For many of these projects, they often execute communication and outreach with both internal and external stakeholders, including local communities, HOAs and citizen groups, local businesses, governmental agencies, and planning boards. **Over the years, this exposure and experience has enabled them to build strong relationships throughout South Florida, with an understanding of municipal and community dynamics across the region.**

> *"I have worked with GSI for over 15 years on several projects, including the Las Olas Beach Park Project, Hollywood Police Department GO Bond, Hollywood Boulevard Landscaping, and so many more. As an expert in Public Outreach, GSI was extremely helpful in connecting with the community while taking on other projects' complex communication strategies.*
>
> *Yvonne Garth and her team are reliable, trustworthy, and extremely effective at creating both strategic and tactical plans that yield positive results for the clients they serve. Their knowledge of public perception, communications, and public sector demands gives them a unique edge in every project they undertake."*
>
> – Jose Cortes, Director of Design & Construction Management
>
> CITY OF Hollywood FLORIDA

Phase	Objective	Core Tactics	Key Outputs
1 Discovery	Re-establish baseline sentiment and priorities	» Assess previous public outreach efforts for the Parks and Recreation System Master Plan (PRSMP) and Parks Bond Program » Intercept surveys and QR-code polls in high-use parks » Stakeholder interviews	» Issues map » Refined Public Engagement Plan
2 Re-Engage Project Stakeholders	Review project options and priorities	» Neighborhood park presentations » Pop-up charrettes » Interactive boards on website » Infographic explainer videos	» Comment matrix linked to each concept » Preliminary option prioritization
3 Confirm Project Prioritization	Build consensus around preferred options	» Open houses » Targeted mailers » Real-time polling during events	» Final preference report » Public response log
4 Construction and Activation	Keep community informed and celebrate milestones	» Bond-progress dashboards » Site visit drone views and photos » Progress videos » SMS/email construction alerts	» Monthly KPI dashboard » End-of-phase fact sheet

This phased engagement framework will be supplemented by the most effective outreach methods for specific stakeholders and communities impacted by each project.

Outreach Toolbox

Communication efforts identified in the Public Engagement Plan will blend traditional methods with digital techniques, accommodating a diverse variety of preferences and accessibility.

Traditional Methods

- **Pop-Up Booths:** Branded, mobile stations that can be set up at festivals, park events, and school functions—complete with portable displays, quick-poll tablets, and fact sheets.
- **Targeted Outreach to Underserved Communities:** SMS text campaigns and community ambassador involvement will ensure outreach to underserved and marginalized communities.
- **Intercept Tablets:** Staffed devices at parks to gather feedback without slowing foot traffic.
- **Neighborhood Presentations:** Short, visual briefings at community centers and HOA meetings.
- **Infographics and Renderings:** Jargon-free visuals that translate technical schematics and blueprints into intuitive graphics—ideal for social feeds and open-house boards.
- **Site Tours and Milestone Celebrations:** Groundbreaking events, local press walkthroughs, and ribbon-cutting ceremonies that turn construction progress into community pride.

Digital Methods

- **Bond Program Website:** Individual project pages with real-time information and visual updates, interactive progress dashboards, and Q&A forms. Featured stories highlighting how community input is shaping a recognizable brand identity and advancing sustainability and resilience efforts across the City. Can be built from the ground up or through enhancements to preexisting City platforms like ftlparksprojects.com and parksrecreation.app.
- **Social Media Toolkit:** Pre-built post templates, brand guides, and engagement protocols, published directly or provided to the City's Public Information Office (PIO).
- **Short-Form Videos:** Thirty-second clips that spotlight benefits, showcase progress, and humanize the project team; all captioned and sized for multiple platforms.
- **Email Updates:** Email newsletters will provide regular updates, insights, and invitations to upcoming events.
- **QR-Code Quick Polls:** Signs and handouts that drive visitors to two-minute microsurveys to capture sentiment while it is fresh.
- **SMS/Email Alerts:** Opt-in messages that push construction updates, road closures, and event invites straight to residents' phones.

Inclusion and Accessibility Measures

Utilizing extensive experience implementing compliant outreach programs, we will make sure that no language, mobility, and/or scheduling barriers prevent inclusive involvement.

- **Multilingual Materials:** Recognizing Fort Lauderdale's diverse linguistic landscape, all communication materials will be available in multiple languages.
- **Accessible Venues and Media:** Wheelchair-accessible meeting sites, captioned videos, screen-reader-ready PDFs, and high-contrast graphics will ensure compliance with ADA standards.
- **Mobile-First Design:** Website, surveys, and dashboards optimized for smartphones, recognizing that for many residents a phone is the primary internet gateway.
- **Hybrid Meetings and Events:** Meetings, workshops, and events will include virtual options offered for anyone unable to attend in person.

By embedding these measures into every touchpoint, the program guarantees that voices across age, ability, and language remain involved in shaping the spaces in their communities.

Program Deliverables

Our team will produce a clear, traceable set of work products that document every step of public engagement and keep the City—and its residents—fully informed.

Deliverable	Purpose	Timing
Comprehensive Public Engagement Plan	Defines stakeholders, tactics, schedule, and success metrics; serves as the master playbook for all outreach activity, with specific strategies to creatively engage the community in co-creating identifiable benefits such as unique placemaking, a strong park system identity, and tangible sustainability and climate resilience outcomes	At project kick-off and updated as needed
Project Website (mobile-first, WCAG compliant)	Central hub for projects, with real-time information and visual updates, interactive dashboards, and Q&A forms	Live within 60 days of NTP and updated continuously
Meeting Agendas and Summaries	Capture attendance, questions, sentiment data, and action items; feeds into the public comment log	Issued within five business days of each event
Public Comment Log	Tracks inquiries, assigns proper respondent, and records all communications	Real-time with target turnaround of 48 hours
Visual Asset Library	Repository of infographics, renderings, videos, and social media templates available for City reuse	As assets are created
Project Completion Fact Sheets	Used to share information with the surrounding community on the various enhancements made	Upon project close-out
Project Insight Reports	Documents outreach successes, challenges, and transferable best practices for future Bond projects	Upon project close-out

Delivering Community-Driven Value

GSI brings deep expertise in strategic public outreach and stakeholder engagement, with a proven track record in Fort Lauderdale and across South Florida. Known for reliable and impactful engagement, GSI combines local knowledge, strong stakeholder relationships, and innovative strategies to ensure meaningful community participation.

GSI's in-house team specializes in:

- **Community Relations and Grassroots Outreach:** Building trust and fostering collaboration.
- **Innovative Engagement Strategies:** Using creative tools to maximize participation.
- **Multimedia Content Creation:** Effectively communicating project benefits.
- **Stakeholder Coordination:** Aligning diverse voices toward shared goals.

With these strengths, Fort Lauderdale can create a park system truly shaped by its residents—one that fosters lasting pride and connection well beyond the ribbon-cutting.

4.2.5.3 Grant Plan

The CES Team's Grant Plan is to research funding opportunities weekly to produce a database of potential funders. Santicola & Company, which will lead our team's Grant Plan efforts, uses a variety of free and subscription resources to research grants, such as Grants.gov, Grants Alert, Foundation Directory online, GrantStation, and federal websites.

For the City, our team will customize the research to key terms for the City's specific funding needs. An Excel list of potential funders will be shared with the City on a weekly basis, and the key words for research will be refined as needed. Once a grant opportunity is identified and agreed upon by the City, our team will meet weekly with key members of the City's team to gather information to develop the grant proposal and all attachments. Once the proposal is completed with budget and supporting documentation, our team will email all documents to the City for upload into the grants portal. Our team can help submit the grant applications if the City allows us access to its portal.

In summary, our team can conduct prospect research weekly; facilitate fund development meetings/webinars with key leaders and departments; design and develop fundable projects to align with current opportunities and priorities; identify regional and national partners to increase funding opportunities; develop and submit proposals for funding in collaboration with internal staff; host and facilitate grant planning meetings via Zoom or Microsoft Teams; meet face to face as needed to assure timely exchange of information for grants; and provide grant resources and tools to promote self-sufficiency in fund development. Our team also offers strategic planning services and capacity building services that can be paid out of grants won to increase future funding for projects.

Santicola & Company

Santicola & Company will lead our team's Grant Plan efforts. Santicola & Company was established in 2001 and over the past 24 years has worked in multiple communities across the United States, including Native American reservations. Santicola & Company helps communities reach economic, health and social equity by providing grant writing, capacity building, project facilitation and strategic planning services. They have helped generate grant funding for community development, including arts, broadband, culture, economic development, education, healthcare, housing, justice, language, open spaces, transportation, victim services and more. By teaming up with a group of highly successful entrepreneurs and experts in their respective fields, the Santicola & Company team has individually and collectively generated over $1B in grants in 20+ years and won numerous awards for excellence in leadership. In 2010 and 2014, Beverly Santicola, the company's President and majority owner, was selected out of 1,600 national nominations as a Purpose Prize Fellow by Encore.org. In 2015, Santicola & Company designed and implemented the first-ever Native National Partnership Retreat that recruited over 40 funding agencies to participate in a three-day event for just one client that resulted in the generation of $166M in new grant funding. **Their track record of success is 95%, in comparison to the national standard of 65%.**

Additionally, Santicola & Company worked with CES over 12 months to identify grants for the Miccosukee Tribe in Miami, Florida on a septic-to-sewer project. The Tribe had its own internal grant writer, but Santicola & Company worked to identify and co-develop applications due to its long-term, well-established relationships with federal funding partners.

Deep Understanding of Funding Mechanisms and Reporting Requirements

CES possesses expertise in managing governmental projects with funding and reporting compliance requirements, including federal and state grants, loans, and other financial assistance programs. Our deep understanding of funding mechanisms and reporting requirements ensures smooth project execution and compliance, minimizing risk and maximizing accountability. Below is a selection of projects that demonstrates required rigorous compliance with funding agency guidelines, including documentation, reporting, and audit readiness.

Miccosukee Tribe of Indians of Florida

- **Septic-to-Sewer Program:** Grant supported, including compliance with federal procurement, environmental review, and tribal reporting protocols.

City of Miami

- **I-395 Open Space & Mobility Connector & I-395 Underdeck:** Funded in part through FDOT and FHWA programs, requiring NEPA compliance and ongoing financial reporting. Developed and secured the Reconnecting Communities Grant from FDOT, FHWA and HUD.
- **Dinner Key Marina Breakwaters Mitigation:** Supported by FEMA Hazard Mitigation Grant Program (HMGP), with quarterly reporting and reimbursement protocols.
- **Flagler Street Beautification:** CDBG-funded, requiring Davis-Bacon compliance, MWBE participation tracking, and HUD reporting.

City of Miami Beach

- **West Avenue North & South Neighborhood Utility & Resiliency Improvements DB:** FDEP Resilient Florida Grant-funded requiring quarterly progress reports.
- **First Street Neighborhood Utility & Resiliency Improvement:** FDEP Resilient Florida Grant-funded requiring quarterly progress reports.

Miami-Dade Water and Sewer Department

- **Ocean Outfall Legislation (OOL) Program:** Partially funded by EPA Water Infrastructure Finance and Innovation Act (WIFIA) loan requiring detailed financial reporting, progress tracking, and adherence to federal procurement standards.
- **MDWASD Pump Station Improvement Program:** Resilient Florida Grant-funded, with full grant compliance documentation.

South Florida Water Management District

- **Comprehensive Everglades Restoration Plan (CERP) Projects:** Multi-agency funded (federal/state), with complex interagency reporting obligations.

Miami International Airport

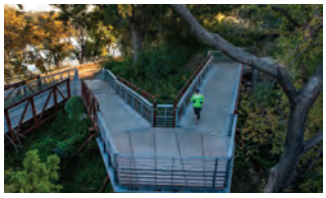
- **South & Central Terminals CBIS/CBRA/BHS Program:** TSA-funded with milestone reporting and cost allocation audits.

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.6 Examples of Completed Projects

4.2.6 Examples of Completed Projects

The CES Team has extensive parks experience, as well as the ability to satisfy the needs of the City of Fort Lauderdale's initiative. This section includes a sampling of the CES Team's relevant project experience. Additional relevant experience is included in the Appendix.

The CES Team's experience includes the following parks: *(Please note this list is not comprehensive.)*

1. 12th Street Park, Sunrise, FL
2. Amelia Earhart Park, Hialeah, FL
3. Bay of Pigs Memorial Park, Miami, FL
4. Belafonte Tacolcy Park, Miami, FL
5. Bluesten Park, Hallandale Beach, FL
6. Bryce Canyon National Park, UT
7. Canyon District Park, Boynton Beach, FL
8. Caporella Park, Tamarac, FL
9. Catoctin Mountain Park, Thurmont, MD
10. Central Broward Regional Park, Lauderhill, FL
11. Cypress Preserve Park, Sunrise, FL
12. David Park, Margate, FL
13. Doral Central Park, Doral, FL
14. Doral Meadow Park, Doral, FL
15. Doral White Course Park, Doral, FL
16. Douglas Park, Miami, FL
17. Elizabeth Virrick Park, Miami, FL
18. Esther Mae Armbrister Park, Miami, FL
19. Fairlawn Community Park, Miami, FL
20. Flagami Park, Miami, FL
21. Frontier Park, Prosper, TX
22. Garrett Wall Park, Warren County, NJ
23. Grand Canyon National Park, Phoenix, AZ
24. Greynolds Park, Miami, FL
25. Hadley Park, Miami, FL
26. Indian Trace Park, Weston, FL
27. Jaco Pastorius Park, Oakland Park, FL
28. Kiest Park, Dallas, TX
29. Lake Lytal Park, West Palm Beach, FL
30. Las Olas Beach Park, Fort Lauderdale, FL
31. Legion Park, Miami, FL
32. Lopatcong Township Park, Warren County, NJ
33. Mack Bernard Park, West Palm Beach, FL
34. Maria Berman Giulanti Park, Hollywood, FL
35. Matheson Hammock Park, Miami, FL
36. Monarch Lakes Park, Miramar, FL
37. Morgan Levy Park, Doral, FL
38. Morningside Park, Miami, FL
39. Nob Hill Soccer Park, Sunrise, FL
40. Oak Hammock Park, Sunrise, FL
41. Ronald Reagan Park (formerly PBA Fern Isle Park), Miami, FL
42. Royal Palm Beach Commons, West Palm Beach, FL
43. Shenandoah Park, Miami, FL
44. Southridge Park, Miami, FL
45. Sullivan Park, Deerfield Beach, FL
46. Sunset Strip Passive Park, Sunrise, FL
47. Tobie Wilson Park, Medley, FL
48. Triangle Park, Doral, FL
49. Truman Waterfront Park, Key West, FL
50. Urban Art Park, Oakland Park, FL
51. Veterans Memorial Park, Sunrise, FL
52. West End Park, Miami, FL
53. Westend Firefighter Park, Davie, FL
54. White Rock Lake Dog Park, Dallas, TX
55. Yosemite National Park, CA

Innovative Solutions

Innovative solutions are redefining how parks serve communities—enhancing sustainability, accessibility, and user experience through forward-thinking methods. Our proposed Program Manager, **James (Jim) P. Wille, CGC**, and our proposed Deputy Program Manager, **Eugene Collings-Bonfill, PE, PSM, PMP**, worked on the **City of Doral's General Obligation Parks Bond Program**, a $200M program with a complex scope. Jim's and Eugene's collaborative efforts on the City of Doral program resulted in a range of innovative and practical enhancements aimed at improving the overall experience for residents and visitors alike. Among the notable solutions were the following:

Green Infrastructure

» Incorporate rain gardens and urban tree canopies for improved environmental benefits.

Smart Technology and Data Integration

» Utilize smart lighting systems, such as motion-activated or solar-powered lights, to enhance safety and energy efficiency.

» Install environmental sensors to monitor air quality, temperature, and noise levels.

Inclusive and Intergenerational Design

» Create universal playgrounds equipped with ADA-compliant and sensory-rich equipment suitable for all ages and abilities.

Community and Cultural Expression

» Feature art installations, including murals created by local artists, to reflect community identity.

Connectivity and Mobility

» Ensure the park is accessible through public transportation, aligning with bus and trolley routes to promote equity and reach.

Another example of how innovative materials and sustainable design approaches are transforming how park systems are developed include two City of Sunrise projects, where a **creative technique was used to minimize environmental impact while improving park functionality**. To minimize the impact of the proposed trail system at Cypress Preserve Park and Oak Hammock Park, Craven Thompson & Associates, a CES team member, implemented a **permeable bonded aggregate material with recycled rubber to help with drainage** and provide more pervious area for the parks. For both parks, Craven Thompson & Associates was the prime consultant responsible for the park design as well as the survey, preparation of the Open Space Park Management Plan, the design workshops, conceptual site design, construction documents and construction management for the City of Sunrise.

Fairlawn Community Park, Phases I & II

Miami, FL

Owner: City of Miami

Completion Year:
2024 (Phase I);
2025 (Phase II)

Project management oversight and coordination for this ±$1.6M project. The newly constructed park includes new playground areas for toddlers ages 2–5 and one for children ages 5–9, walkways/pathways around the park, an abundance of trees, water stations, bike racks, and a dog run area with a pet waste station. Roadway improvements around the park were also part of the scope.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

West End Park Pool & Enhancements

Miami, FL

Owner: City of Miami

Completion Year: 2025

Project management oversight and coordination for this $16.8M City Bond-funded project. New and improved proposed elements of the park include a new multi-use sports field, a walking trail with exercise equipment stations, two tennis courts, two basketball courts, a landscaped shaded plaza with sitting areas, a children's splash pad with spray features, dumping buckets, climbable waterplay, waterfall wall, a new pool building with a new swimming pool for recreational swimming and lessons, including a wellness lap pool component, a new entry plaza with service entrance and a paved walkway, a lightning warning system, and Art in Public Places components.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Shenandoah Park Improvements & Pool Enhancements

Miami, FL

Project management oversight and coordination for this ±$9M City Bond-funded project that includes planning, design and construction services for general park enhancements. New and improved elements of the park included a new swimming pool facility, two new basketball courts, a new soccer field, fitness equipment, a library plaza, and ball field improvements.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Owner: City of Miami

Completion Year: 2025

Belafonte Tacolcy Park 40-Year Recertification

Miami, FL

Owner: City of Miami

Completion Year: 2025

The City recertifies structures 40 years or older to ensure they are safe for use and occupancy, as per the Miami-Dade County Code. New guidelines and requirements for building recertifications have been put in place since 2022. Provided construction management services for the structures at the 3.5-acre Belafonte Tacolcy Park. Services and responsibilities included: administrative and program management support; reviews and risk assessment reviews; project initiation, monitoring, controlling, and reporting; construction management of projects throughout the bidding, construction, closeout, warranty, and related services phases; assisting in the procurement of architecture, engineering, and construction services under the direction of the City's Department of Procurement, and in accordance with governing state law and City ordinances and policies; coordinating with outside agencies and construction authorities having jurisdiction for inspection; and conducting value engineering analyses and constructability reviews.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

40-50-Year Recertifications, Citywide Parks & Projects

Miami, FL

Owner: City of Miami

Completion Year: 2025

The City recertifies structures 40 years or older to ensure they are safe for use and occupancy, as per the Miami-Dade County Code. New guidelines and requirements for building recertifications have been put in place since 2022. Provided project management oversight and coordination and construction management services for multiple, concurrent Citywide projects. Services and responsibilities included: administrative and program management support; reviews and risk assessment reviews; project initiation, monitoring, controlling, and reporting; project management and construction management of projects throughout the planning, design, bidding, construction, closeout, warranty, and related services phases; assisting in the procurement of architecture, engineering, and construction services under the direction of the City's Department of Procurement, and in accordance with governing state law and City ordinances and policies; coordinating with outside agencies and construction authorities having jurisdiction for inspection; and conducting value engineering analyses and constructability reviews. Parks include the Historic Virginia Key Beach Park Carousel and Bathhouse and the Historical Charles Torrey Simpson Memorial Park and Gardens.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Ronald Reagan Park (formerly PBA Fern Isle Park) Redevelopment

Miami, FL

Contract closeout oversight and coordination to assure the contract closeout met all the terms of a contract and all administrative actions were completed, all disputes settled, and final payment was made for the PBA/ Fern Isle Redevelopment project. New and improved elements for the newly renamed, 6-acre Ronald Reagan Park include a parking lot with drop-off area, a metal picket fence with vehicular and pedestrian gates, a monument sign on 14th Street, a new concrete Perimeter Walking Path and a River Walk Path with LED lighting, river bioswales for a cleaner environment, a new picnic table area underneath abundant mature trees for shade and comfort, two large, 40'x40' pavilions with BBQ grills, an outdoor fitness station, a multi-use, open play field, wayfinding and historic bridge signage, drinking water fountains, pet stations, trash receptacles, sitting benches, a new bathroom building with a breezeway pass through, beautiful and abundant landscaping with irrigation system, and Art in Public Places elements within the park.

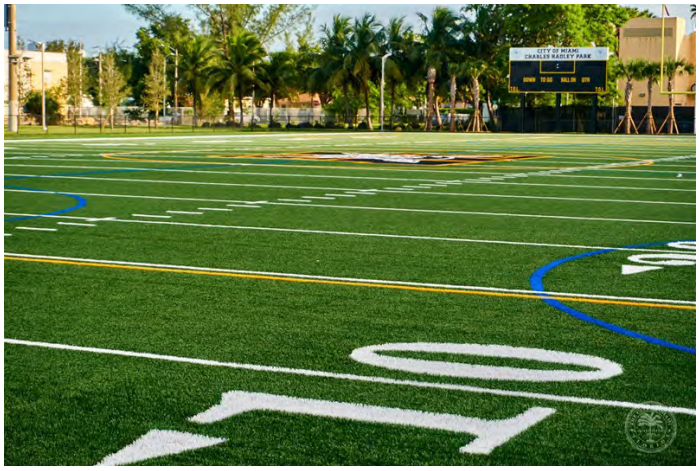
This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Owner: City of Miami

Completion Year: 2024

Hadley Park Multi-Purpose Synthetic Turf & Park Improvements

Miami, FL



Contract closeout oversight and coordination to assure the contract closeout met all the terms of a contract and all administrative actions were completed, all disputes settled, and final payment was made for the 5.38-acre Hadley Park Multi-Purpose Synthetic Turf and Park Improvements project. Improvements included a multi-purpose athletic field layout, fencing, fitness stations trail, pedestrian walkways, grading, site amenities, an ADA-accessible ramp, sodding and irrigation.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Owner: City of Miami

Completion Year: 2024

Bay of Pigs Memorial Park

Miami, FL

Project management oversight and coordination for significant improvements to Bay of Pigs Memorial Park to better serve the community. The City's investment included new outdoor fitness equipment, a children's playground, a walking path, a drinking fountain, lighting, on-street parking, drainage, sidewalk improvements, and new landscaping to provide a green enjoyable outdoor space for the community. The park includes a unique monument designed by renowned sculptor Nilda Comas, featuring a soldier with the Cuban flag, symbolizing hope and resilience. Additionally, permanent bronze plaques depicting the history of the Bay of Pigs Invasion have been installed.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Owner: City of Miami

Completion Year: 2023

Douglas Park Dog Run and Walkways

Miami, FL

Project management oversight and coordination, as well as construction management, for the new Dog Run and Walkways Enhancement and Replacement Projects. The new Dog Run elements include a designated, synthetic turf, kidney-shaped area for dog exercise within the existing park, connected through a concrete new sidewalk to the existing pathway; a 5-foot-tall chain-link fence enclosure of the dog area on all sides, complete with a double gate for convenient and controlled access and egress; a multi-level drinking fountain; play equipment specifically for dogs; benches and litter receptacle; and landscaping, irrigation and new lighting.

The Walkways Enhancement and Replacement Projects include replacement of the existing asphalt walkways with new 6-foot-wide colored concrete paths; replacement of existing benches with new furniture and litter receptacles; and a new sidewalk to connect the new dog run park to the existing pathway.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Owner: City of Miami

Completion Year: 2025

Seminole Tribe of Florida (STOF) Skate Park Upgrades

STOF Brighton Reservation, FL

Owner: STOF

Completion Year: 2024

This project included remodeling/repurposing the existing restroom building; refinishing and reconditioning existing skate ramps; refinishing and expanding existing skate park concrete slab; adding new chain link fence and gates; installing new bleachers; a new overhead Airnasium; plus, all associated MEP and civil/site work.

This project is part of CES's STOF Tribalwide Construction Engineering Inspection (CEI) Continuing Services Contract in which CES is providing Construction Contract Administration and CEI services to STOF.

Doral Central Park

Doral, FL

Owner: City of Doral

Completion Year: 2025

A new 78-acre park in the heart of Doral featuring an aquatic center with a 50-meter Olympic-standard competition pool, diving platforms, a slide and a leisure area; an 80,000-SF community center, which will offer basketball courts that can convert into volleyball courts, gym with weightlifting area and cardio sections, meeting rooms, a cafe, demo kitchen, gaming areas and locker rooms; an amphitheater; skate park and pump track; new playgrounds; outdoor fitness stations; pavilions; scenic walking and jogging trails surrounded by lush greenery; beach volleyball, basketball and tennis courts; boardwalk; and approximately 1,000 parking spaces.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Doral Cultural Arts Center

Doral, FL

New $10M Cultural Center in Downtown Doral. This approximately 14,000-SF facility features a large art gallery space, visible from both inside and outside the building; a flexible multi-purpose room; outdoor courtyard; catering area; dedicated vehicular drop-off area; public restrooms; accessible rooftop plaza; additional multi-purpose greenspace; public art; and additional seating areas.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Owner: City of Doral

Completion Year: 2024

Doral Meadow Park

Doral, FL

The project included enclosing existing outdoor patio space to provide 800 SF of indoor recreation area with a new HVAC system. Additionally, the existing building renovation included a high-tech conference room, kitchenette, façade treatments, an indoor trophy case, modernized bathrooms and a multi-purpose outdoor plaza.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Owner: City of Doral

Completion Year: 2021

Doral White Course Park

Doral, FL

This new park includes a shaded playground, a waterfront event plaza, outdoor fitness stations, a multi-purpose green space area, putting green, fenced-off dog area, picnic shelters, restrooms, and a parking lot. The park will have limited landscape lighting with general overhead and walkway lighting and security cameras. A new boardwalk connects this park to Downtown Doral.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Owner: City of Doral

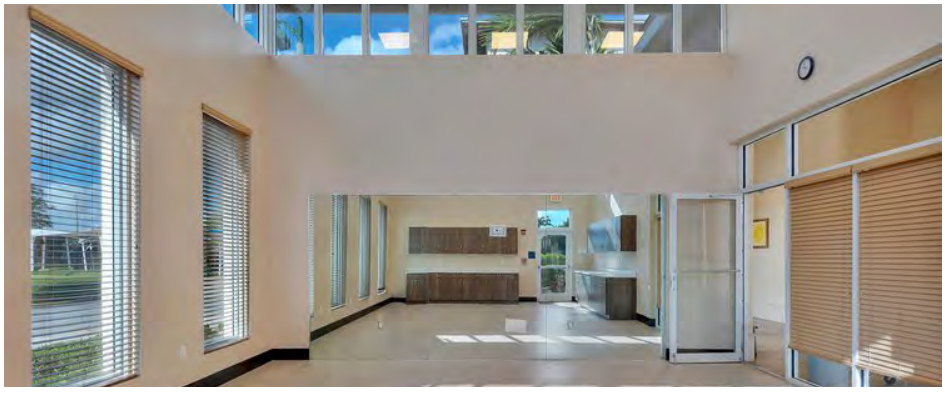
Completion Year: 2022

Morgan Levy Park

Doral, FL

This project involved the removal and replacement of existing flooring in multi-purpose rooms, new millwork in multi-purpose rooms and concession area, painting, expansion of office spaces for facility operations, and addition of a grease interceptor. Also included the addition of ADA-accessible routes to the picnic areas, and transitioning to high-efficiency LED fixtures in the parking area, as well as adding and enhancing security cameras. The building footprint was increased by ±300 SF for the addition of a new staff break room and dedicated IT room.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.



Owner: City of Doral

Completion Year: 2021

Central Broward Regional Park & Stadium Design-Build

Lauderhill, FL

Central Broward Regional Park & Stadium, located at the corner of US 441 and Sunrise Boulevard, is a premier 110-acre multi-purpose sports and recreation complex. The park is home to the first International Cricket Council (ICC)-certified cricket stadium in the United States. Its main event field features a 167-yard (153-meter) circular grass pitch surrounded by a 5,000-seat stadium and berms that can accommodate an additional 15,000 spectators, bringing total capacity to 20,000 seated spectators. Since its opening, the stadium has hosted several significant international cricket events.

Beyond cricket, the park offers a wide variety of amenities designed to serve the broader community. These include four lighted football/soccer fields, two cricket fields, netball courts, basketball and tennis courts, nature trails, picnic areas, a special event space, and public art installations. It is also equipped with biking, jogging, and walking paths, making it a year-round destination for sports, recreation, and cultural events. The park also features an aquatics complex, called the "Tropical Splash," which includes water playgrounds, an instructional pool, and boat rentals. This park stands as a landmark facility, supporting both local engagement and international recognition in the world of sports.

Award: 2008 National Association of County Park & Recreation Officials (NACPRO), Class II Award for Park & Recreation Areas & Facilities

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager for the design and construction of this multi-purpose sports and recreation complex and stadium.

Owner: Broward County

Completion Year: 2007

Morningside Park – City of Miami Miscellaneous Surveying and Mapping Services Contract

Miami, FL

Under this miscellaneous surveying and mapping services contract, scope performed for boundary and topographic survey with elevations for various City parks. This project includes the preparation of a topographic survey with elevations of the tennis courts, basketball court, athletic field area and pertinent site features such as parking area, buildings, trees, fences, sprinkler heads, and light poles located near the intersection of NE 7th Avenue and NE 55th Terrace. The survey area encompasses approximately 7.5 acres of the overall park, and though a boundary survey was not performed, the project site served as boundary points in the vicinity of the project site. The following scope of services was completed:

- Locating project site in relation to property boundaries
- All interior improvements and improvements in the adjoining half rights-of-way
- Locating all trees within the property boundaries
- Locating all buildings within the survey area; providing building corners, perimeter dimensions, setback distances, top of parapet elevations, and finished floor elevations
- Taking elevation shots at 50-foot intervals; collecting all visible terrain deviation such as low and high points
- Collecting invert elevation, pipe size, and pipe type of all accessible existing inlets and manholes
- Locating all overhead utility lines and poles within the survey area
- Showing existing easements as shown on the face of the plat
- Setting two onsite benchmarks with state plane coordinate and elevation, these points are to be used as control points during construction
- Deliver ten signed and sealed copies of the resulting map of survey, along with a CD containing digital version of the resulting map of survey in PDF and DWG formats

Colliers Engineering & Design

Owner: City of Miami

Completion Year: 2015

Garrett Wall Park
Warren County, NJ

Garrett Wall Park was created in 1824 and is Warren County's first park. Garrett Wall Park is located adjacent to the historic Warren County Courthouse and contains mature trees and picturesque grounds that allow visitors an opportunity to walk and picnic in the center of the Town of Belvidere's Historic District.

In an effort to improve the park and the streetscape adjacent to the park on South Street, Third Street, Mansfield Street and Hardwick Street, the County of Warren retained Colliers Engineering & Design (CED) to prepare plans for the replacement of all sidewalks including curb ramps and the installation of decorative street lights along the perimeter of the park, as well as improvements to stone paths within the park grounds. The primary purpose of the project was to enhance the aesthetics along the park's perimeter and improve safety by better illuminating the sidewalk areas along the park perimeter.

Because the park is situated within the Town's Historic District, CED filed an application with the State Historic Preservation Office (SHPO) for approval to construct the various improvements. The plans prepared by CED that were submitted to SHPO featured sidewalks that were tinted to match sidewalks that were constructed at various locations in the Historic District on previous projects.

CED prepared construction plans, technical specifications, bid documents, cost estimates, and permit applications and observed and administered construction of the improvements on the project. The project was completed in August 2021.

Subsequent to the completion of the project in 2021, CED was retained to prepare plans for a gazebo that was later installed on the park grounds.

Colliers Engineering & Design

Owner: Warren County

Completion Year: 2021

Warren County Community College Recreation Trail

Townships of Washington and Franklin, Warren County, NJ

CED was responsible for preparing comprehensive construction plans, technical specifications, and bid documents for the development of a 1.1± mile porous asphalt recreation trail on the main campus of Warren County Community College. The design and construction of the trail were specifically tailored to meet the accessibility standards outlined in the Americans with Disabilities Act (ADA), ensuring that the facility was usable by people of all abilities. This involved careful planning to ensure smooth transitions, proper signage, and appropriate surface treatments to accommodate individuals with mobility challenges.

In addition to the design work, CED provided construction observation and administration services throughout the project's construction phase. These services included overseeing the construction process, ensuring that the trail was built according to the approved plans and specifications, and addressing any issues that arose during construction. CED's team worked closely with contractors and other stakeholders to ensure that the project remained on schedule, within budget, and met all required quality standards.

The trail, designed to provide both recreational and practical benefits to the college community, was completed in the fall of 2021. It now offers a safe, accessible, and environmentally friendly pathway for students, faculty, and visitors to enjoy while promoting physical activity and outdoor engagement on the college campus. The porous asphalt material used for the trail also promotes better stormwater management, making the project both sustainable and in line with modern best practices for environmental impact.

Colliers Engineering & Design

Owner: Warren County

Completion Year: 2021

Bluesten Park

Hallandale Beach, FL

Bluesten Park includes a 42,000-square-foot Gold LEED-certified recreation center with pool and splash play area, soccer multi-use field, three baseball fields, three basketball courts, two tennis courts, two racquetball courts, boundless ADA-inclusive playground, walking trails and pavilions, and full promenade streetscape design for surrounding streets for pedestrian-friendly corridors and parallel parking. Craven Thompson & Associates provided landscape architecture, surveying, civil engineering, and CEI services for the project.

Owner: City of Hallandale Beach

Completion Year: 2020

Jaco Pastorius Park – Gateway Plaza & Fountain

Oakland Park, FL

This project involved the design of the entrance to the park, providing an important connection from the City of Oakland Park Mainstreet development to Jaco Pastorius Park. Services included the design of the custom arch, plaza and jetted fountain along with close coordination with the City, FDOT and CSX railroad. The custom, lit fountain includes numerous fountain jets providing a welcoming arch of water, as well as constantly changing colors. Craven Thompson & Associates provided surveying, park planning, civil engineering, landscape architecture, and CEI services.

Owner: City of Oakland Park

Completion Year: 2019

Stunson Nature Trail and Platform

Oakland Park, FL

The City of Oakland Park recently converted an underutilized piece of land used primarily for the storage of stormwater runoff into a park, demonstrating the region's various ecological zones with the use of plant selection and educational signage. The site continues to support stormwater runoff, but now connects a string of County and City parks, further providing open space and natural habitats for the community. Stunson Nature Trail is located in the Royal Palm Acres neighborhood in the City of Oakland Park. Craven Thompson & Associates provided surveying, civil engineering, and landscape architectural services. Park improvements included:

- Creation of an educational experience along a walking trail that emphasizes the primary environmental zones.
- Enhanced wetland area.
- New landscaping and irrigation.
- Creation of earthen berms.
- Decorative fence with landscape buffer along NE 38th Street.

Owner: City of Oakland Park

Completion Year: 2022

Sunrise Sportsplex

Sunrise, FL

Craven Thompson & Associates was selected by the City of Sunrise as the prime consultant to oversee all professional services including professional surveying, landscape architectural, civil engineering, architectural and geotechnical services for the proposed 16.5-acre (bond-funded) athletic complex located at Pine Island Road and NW 50th Street.

In general, the project included:

- Four baseball/softball fields.
- One multi-use soccer/football field.
- Hard-covered dugouts.
- Bleachers with cantilevered shade canopies.
- Centralized two-story concession, restroom, meeting space and scorer's building.
- One restroom/maintenance building for the soccer fields.
- Two playgrounds with shade structures.
- Sports lighting for all fields.
- Batting cages.
- Two parking lots with entry signage.
- Southbound right-turn lane on Pine Island Road.
- Pedestrian connections to West Pine Middle School for shared-use facilities agreement.

Owner: City of Sunrise

Completion Year: 2020

Veterans Memorial Park

Sunrise, FL

In a series of new or renovated passive parks in the City of Sunrise, Veterans Memorial Park stands resolute in distinction. Anchoring the park at its center is a large hand-carved Pennsylvania granite monument. Circulating the park are companion monuments, one for each branch of the U.S. Military. In addition, there is an iconic 14,000-square-foot playground and plans to expand the park with an obstacle course similar to those used in military training. Following concept design and project bidding, became responsible for construction administration and observation. Craven Thompson & Associates performed landscape architectural and civil engineering services for the project.

Owner: City of Sunrise

Completion Year: 2024 (Construction Completion)

Caporella Park Enhancement Project

Tamarac, FL

Craven Thompson & Associates has teamed with Walters Zackria Architect to provide civil engineering, landscape architectural, and construction administrative services. This project is located at 5200 Prospect Road in the City of Tamarac, Florida. The site is approximately a 9.3-acre lot (3.73 acres surface area and 5.57 lakes). The project enhancements included:

- Native landscaping on at least 30% of the site.
- An 8-foot multi-use concrete path with one central fitness station (ten pieces of equipment).
- A 1,000-SF restroom/storage facility.
- A 4,000-SF playground including safety surface and shade structure.
- One large picnic shelter.
- Benches, grills, water fountains.
- Non-motorized boat launch with floating boat dock.
- 2,500-SF splash pad.
- Expansion of onsite parking area, irrigation and landscape improvements, lighting, video and security system, and a fiber network infrastructure.

The City of Tamarac was awarded a $50,000 Florida Recreation Development Assistance Program Grant for this project.

Owner: City of Tamarac

Completion Year: 2023

Oak Hammock Park

Sunrise, Florida

Oak Hammock Park was an 11.17-acre vacant site located on the south side of NW 44th Street, approximately 1,500 feet west of Pine Island Road. Funding for the acquisition of this site was provided through the Broward County Land Preservation Bond Program. Located adjacent to a canal opposite single-family homes and next to commercial development, this park site is a perfect natural buffer between the two uses. The location of this park next to a canal provided a wonderful opportunity to bring the water element into the park setting with a canoe trail encircling a "bird island." A meandering boardwalk through the newly constructed wetlands is a serene and educational experience for all of the park's visitors. The site plan was designed to preserve and enhance all of the existing natural upland resources while providing a beautiful, safe and functional passive park for the residents. The park contains a walking/jogging trail utilizing pervious materials, multiple custom-designed picnic pavilions, pervious parking, expansive open play areas, a large playground that includes rock climbing, and two custom-designed restroom facilities, as well as environmental educational materials along the boardwalk and at the entrance.

The park is also 75% planted utilizing native species and utilizes recycled materials in all site furnishings. Craven Thompson & Associates was the prime consultant responsible for the park design, as well as the survey, preparation of the Open Space Park Management Plan, the design workshops, conceptual site design, construction documents and construction management for the City of Sunrise.

Owner: City of Sunrise

Completion Year: 2015

Cypress Preserve Park

Sunrise, FL

Cypress Preserve Park is a 7.93-acre park located on the east side of NW 90th Terrace, between Oakland Park Boulevard and NW 38th Street. Funding for the acquisition of this site was provided through the Broward County Land Preservation Bond Program. Located amongst several multi-family developments, this natural oasis provides a tranquil setting for relaxation and passive recreation. Existing on this site is a small Cypress Stand and wetland, as well as several large specimen live oak trees. The site plan was designed to preserve and enhance all of the existing natural resources while providing a beautiful, safe and functional passive park for the residents. The park contains a walking/jogging trail with exercise stations, an elaborately themed Splash Pad/"Sprayground," pervious parking area, a nine-hole disc golf course, multiple custom picnic pavilions and a custom restroom facility, as well as environmental educational materials. As you enter the park, a recycled glass river guides the visitors to the "Sunrise Swamp" Splash Pad, and there, amongst the lush native vegetation, the alligators are there to spray you with water.

Craven Thompson & Associates was the prime consultant responsible for the park design, as well as the survey, preparation of the Open Space Park Management Plan, the design workshops, conceptual site design, construction documents and construction management for the City of Sunrise.

Owner: City of Sunrise

Completion Year: 2016

Las Olas Beach Park Project

Fort Lauderdale, FL

The City of Fort Lauderdale initiated the Las Olas Beach Park Project to revitalize a key waterfront corridor and improve public access to its beaches. The $51M investment included two new waterfront parks, a modern parking facility, a tree-lined promenade, and major streetscape improvements. Garth Solutions, Inc. (GSI) was brought on to lead public outreach and communications, ensuring stakeholders remained informed, engaged, and supportive throughout the planning and construction process.

Public Communications Strategy

GSI developed and executed a citywide communications plan that included newsletters, alerts, and timely updates on project milestones. These materials were designed to be visually engaging and easy to understand, ensuring the public could track progress without confusion or speculation.

Stakeholder Engagement & Feedback Loops

The team conducted outreach to businesses, residents, and stakeholder groups through community meetings and direct communication. By creating space for dialogue and delivering responsive follow-ups, GSI helped mitigate concerns and build goodwill with affected audiences.

Visual & Digital Communication Tools

GSI produced collateral that visually communicated design features, timelines, and construction phases. Updates were distributed across digital and print formats to ensure broad accessibility. Materials included renderings, infographics, and visual summaries to clarify the project's benefits and evolution.

Administrative Support & Reporting

In addition to public-facing work, GSI provided behind-the-scenes support including document control, stakeholder correspondence tracking, and reporting to City staff and project partners. This helped keep communication channels aligned and responsive throughout.

Key Results

- Established an effective line of communication between the construction management team and stakeholders.
- Enhanced community trust and transparency through consistent updates and proactive outreach.
- Supported the successful completion of the project on time and within budget.

Garth Solutions
Thinking beyond the box

Owner: City of Fort Lauderdale

Completion Year: 2019

River Oaks Storm Basin Park Project

San Jose, CA

The 5.2-acre project site is located in North San José between Riverview Parkway and the Guadalupe River, San José, California. The project will convert an existing facility to provide stormwater treatment via bioretention prior to discharge to the Guadalupe River, by allowing for low flow water to be routed into a redesigned detention basin after trash capture and sedimentation deposition in a newly created forebay. Water would then flow through the bioretention basin to receive bio-treatment.

The project landscape architectural elements include the development of an integrated park to provide recreational, aesthetic, and educational benefits for the community. Park features include a walking trail around the basin, a boardwalk and viewing platform over the detention basin, two deck overlooks with seating, a pocket park plaza with exercise and play equipment, interpretive signage (both mounted adjacent to the trail and rail mounted along the boardwalk and overlooks), a demonstration bioretention planter, and public art installations (coordinated with local artist to include decorative fence panels and potential for future installations). The basin planting design makes a nod to the silicon valley, deconstructing a circuit board layout concept using different plant materials. The area surrounding the detention basin is planted with new trees, native grasses, and a pollinator garden. Additionally, the park facilities are designed to meet ADA accessibility standards.

GHD

Owner: City of San Jose Department of Public Works

Completion Year: 2023 (Design); 2025 (Construction)

Perez Park and Biofiltration at Santa Ana Avenue and University Drive

Costa Mesa, CA

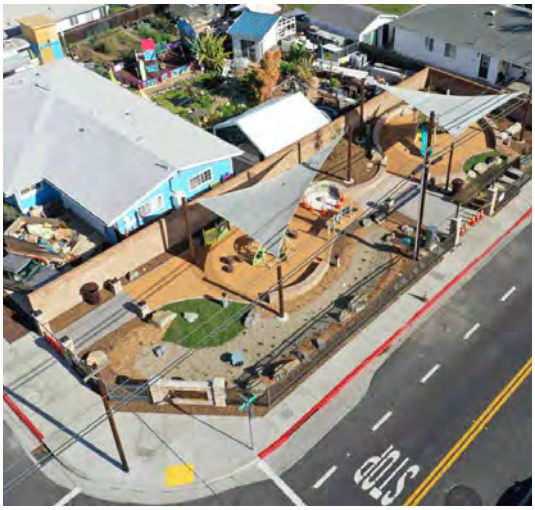
GHD led this work from conceptual ideation to 60-strong plus public workshops, through to hands-on construction observation and assistance.

The Challenge

Transform a vacant house lot in the residential area of Costa Mesa with the custom design of a children's tot-lot park that doubles as stormwater infrastructure addressing a neighborhood-sized drainage and access issue in surrounding streets.

GHD Response

The park innovatively integrates the design of a neighborhood tot-lot, stormwater bioretention, several blocks of surrounding pedestrian safety and accessibility improvements, and extensive roadway repaving and restriping. GHD developed and presented four design alternatives (eco-park, tot-lot, dog park and community garden) for voting in public workshops with over 60 community members participating.



The Impact

The park has become an inspiring and thriving location that enables children to play in a safe environment, while also encouraging parents and caregivers to gather and create friendships. In addition to the play areas, the behavioral patterns of drivers and park users were considered to maximize safety and safety elements including security lighting and a traffic buffer with red lines painted around the park for clear line of sight for drivers. An additional and important aspect of this project was to provide water resiliency with stormwater collection and a treatment area, together with a drainage basin on the outer perimeter of the park. Utilizing multidisciplinary skills from across GHD, this park provides a beloved place for the local community that is used day in and day out and brings joy to everyone who uses it.

GHD's emphasis on novel stormwater infrastructure, attention to native plantings, custom design elements, and the level of partnership with the community garnered the project American Society of Civil Engineers Orange County's 2022 Outstanding Small Project Award.

Owner: Orange County Public Works

Completion Year: 2021

Mansfield Road Street Enhancements

Cedar Hill, TX

As part of a joint effort between the City of Cedar Hill and Dallas County, the Jacobs team redesigned the narrow Mansfield Road to create a grand boulevard effect that included the establishment of separated sidewalks and bike lines in a complete street model. As part of this effort, they designed for the widening of the existing road and added sidewalks and bike lanes to accommodate the heavy use of bikers and new routes for pedestrians to walk between the neighborhood communities.

The study area, approximately two miles in length, begins at Beltline Road on the east and extends west to the bridge at Joe Pool Lake. This area presents several unique characteristics, including adjacency to Cedar Hill State Park, residential frontage, commercial frontage and direct connections to the downtown district of Cedar Hill. Mansfield Road winds through a hilly canyon and is a major connector between the cities of Grand Prairie and Cedar Hill.

The team addressed these challenges by designing features that include changing the elevations of the road from east to west bound with separated lanes of roadway to create landscape medians down the middle; separate walking and biking trails for safety; enhanced pedestrian crosswalks across the highway; and context-sensitive drainage solutions.

They coordinated with Cedar Hill and Dallas County during the early design phase, during which they led two design charrettes with stakeholders and agencies to bring consensus to the design.

Jacobs

Owner: City of Cedar Hill

Completion Year: 2018

Kiest Park Loop Trail

Dallas, TX

After completing the Kiest Park Master Plan, Jacobs designed for the rehabilitation of the Kiest Park Loop Trail. The trail has historically been one of the most used trail circuits in the City of Dallas. The trail updates, along with alignment changes and neighborhood connections, created more than two-and-a-half miles of newly paved 12-foot-wide concrete trail for the community. The Kiest Loop also connects to the larger network of regional Dallas County trails. The design included a trailhead at Kiest Boulevard and Hampton, as well as shade structures, exercise stations and site furnishings.

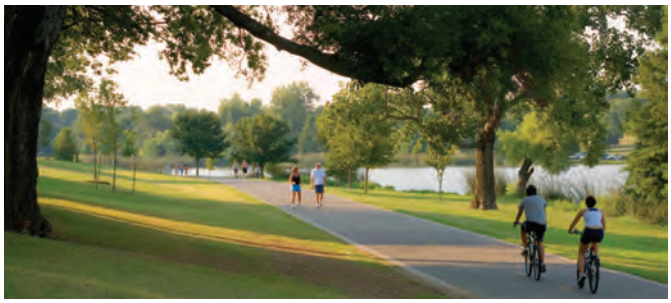
Jacobs

Owner: City of Dallas

Completion Year: 2016

White Rock Lake Trail Improvements

Dallas, TX



Considered the passive recreational "Crown Jewel" of the Dallas Park System, the Jacobs team was responsible for master planning this 2,011-acre regional urban park for the City of Dallas. They were additionally responsible for the final design of both the west and east sections of the Lawther Trail system looping around the lake and within the park.

The White Rock Lake Park Loop Trail is a part of the City of Dallas trails system. This loop trail is one of Dallas' most popular trails and receives heavy use. The trail follows the shoreline of White Rock Lake and connects to many features and amenities within the park. This trail also connects to the Union Pacific Trail, Santa Fe Trail, Katy Spur Trail and White Rock Creek Trail.

They also helped to develop a solution for restoring and enhancing approximately a one-half-mile segment of shoreline along the east side of the lake due to deterioration of the shoreline from construction activities. They produced to the City a set of guidelines to construct the reclaimed and environmentally sensitive lake edge. The team will begin agency permitting and assist in writing a Wetlands Protection Development Grant Program Application for the proposed improvements.

Jacobs

Owner: City of Dallas

Completion Year: 2015

Boardwalk Trail at Lady Bird Lake

Austin, TX

Up to 15,000 people walk, run or bike along Lady Bird Lake in Austin every day. Prior to the final construction of the Boardwalk Trail at Lady Bird Lake, trail users faced an obstacle: a 1.2-mile gap on the south side of the lake from a point east of the Congress Avenue Bridge, extending under Interstate 35 and ending at Lakeshore Park. The trail runs along both sides of the lake and is connected by several bridges, but it was impossible to jog a complete loop without leaving the trail for narrow sidewalks along busy roads.

Jacobs helped develop the Boardwalk Trail at Lady Bird Lake, which unified the trail system. The Boardwalk Trail not only completed the loop around Austin's urban lake, but also helped preserve and enhance the lakeshore environment.

Lady Bird Lake began life in 1960 as a water reservoir and remained an unimproved and polluted eyesore for more than a decade. But in 1971, former first Lady Bird Johnson headed up an initiative to clean and beautify the lake. Scenic corridors combining trails and landscaping were constructed on both sides of the lake and achieved immediate popularity, despite the 1.2-mile gap along the south bank.

Residents talked about completing the trail system over the years, and the project moved ahead in 2008 when the City of Austin made the trail a priority. The city then turned to the team for help with design and engineering, counting on their expertise with innovative park projects. The Boardwalk Trail is now used by thousands of Austin residents each week.

Jacobs

Owner: City of Austin

Completion Year: 2014

San Antonio River Historic Mission Reach

San Antonio, TX

The Mission Reach segment of the San Antonio River is a large-scale restoration of an eight-mile river segment that was previously channelized by USACE in the 1960s. The original channelization project resulted in efficient flood conveyance; however, it left the residents of San Antonio with a straight, steep-banked, Bermuda grass-lined channel that was stripped of its natural habitat and stream function. The multi-objective project of geomorphic-based river restoration balanced the key components of environmental restoration, habitat enhancement, public space and recreation development, historical education and flood protection.

Jacobs has been connected to this project for more than a decade. Beginning in 2002, they provided design services from preliminary design to the San Antonio River Authority (SARA), subsequently working with USACE for the Ecosystem Restoration and Recreation Project. Following this, they worked with SARA for the Locally Funded Upgrades Project, followed by construction administration and inspection in 2013.

Components of the design included habitat in the form of normal water depth and velocity, vegetation, rock riffles, embayments, restored river remnants and channel diversity. Their design also addressed the river's pattern by creating new meanders for the river to follow along its path. They moved 3.5 million cubic yards of earth to give the river back to San Antonio while maintaining its flood control function.

Restoring the project's ecological function was a major task. The reforestation effort consisted of 41 native tree and shrub species in combination with hundreds of grasses and forb species based upon observations of nearby communities. Over 23,000 trees were planted over the total 334 acres of riparian habitat. Ultimately, the Mission Reach incorporated numerous ecological improvements, low-impact developments and conservation techniques into the design.

Jacobs

Owner: San Antonio River Authority

Completion Year: 2013

Greynolds Park Sea Level Rise Flood Mitigation Strategy

Miami, FL

Neighborhood and regional parks are already a trusted community partner and natural gathering space. Often these same parks are points of flood distribution after hurricanes and extreme weather events. Jacobs performed the vulnerability assessment within the broader context of Miami-Dade County's resilience philosophy and strategy; and quite simply, because parks are for people.

Miami-Dade County manages more than 13,500 acres and more than 280 parks, facilities and greenways. Many of these recreational assets, enjoyed by residents and visitors alike, are vulnerable to flooding and sea level rise. Jacobs studied the park infrastructure and operational vulnerabilities to sea level rise and developed flood mitigation strategies and a project implementation roadmap to inform planning and budgeting over time. These projects are intended to reduce flood risk, asset by asset, in a targeted manner.

Jacobs began the project with a project kickoff and goal-setting meeting with staff and a site visit to perform a condition assessment of the parks in April 2020. They evaluated 23 park facilities against a series of current and future flood scenarios to determine facility flood vulnerability and to inform flood mitigation strategies and project ranking, including:

» The 100-year storm events in 2020, 2040 and 2070
» King tide event, including sea level rise projections by decade through 2100

Facility flood vulnerability was assessed based on a facility's exposure and sensitivity to flooding.

They then conducted a flood risk analysis to calculate flood risk for park facilities in dollar terms, by determining the probable cost of restoration and repair to those facilities resulting from temporary flood inundation associated with select current and future flood scenarios. Once they quantified the flood risk for each facility, they developed flood mitigation strategies and evaluated the estimated construction costs against the flood risk at each facility, considering flood depth and anticipated asset service life, to select the appropriate flood mitigation measures for each facility.

Given that the flood mitigation projects will take place inside a community park, where residents and visitors enjoy recreational and passive use, they recommended that the improvements be designed and built with community benefits and values in mind, including improving accessibility for all residents and the enhancement of aesthetics and environmental stewardship.

To support these environmental and social stewardship goals, they recommended a multi-pronged approach to implementing the flood mitigation projects:

» **Resilience design standards** based on future flood risk using an integrated project approach that enhances economic, environmental and social co-benefits for each project.
» **Traditional gray infrastructure interventions, such as hardening and elevating, and flood-proofing.** They developed the flood mitigation strategies using their knowledge of park facilities and operations.

Jacobs

Continued on the next page

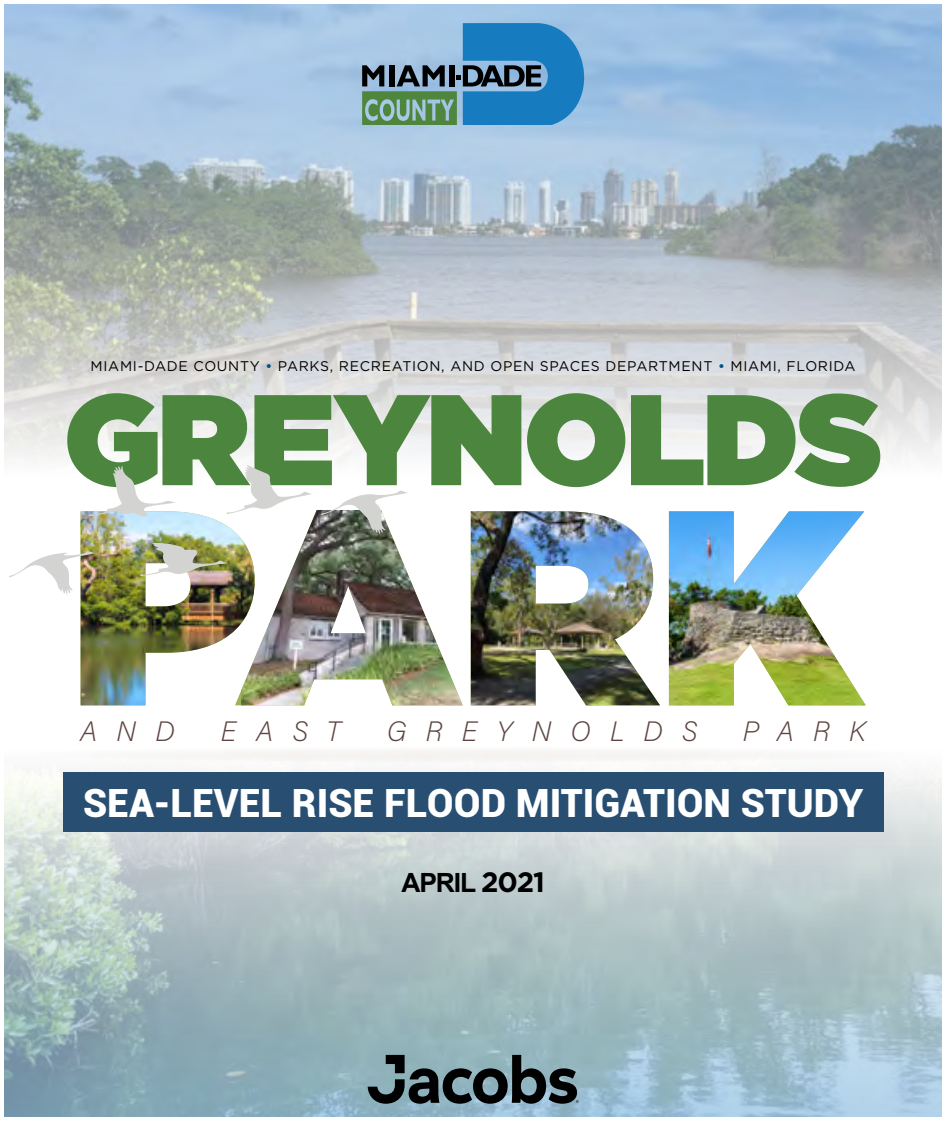
Greynolds Park Sea Level Rise Flood Mitigation Strategy

Miami, FL

» **Complementary blue-green infrastructure and nature-based solution enhancements** for inclusion at the time of design and construction. While blue-green infrastructure alone will not reduce flood risk, other benefits to the park and community include improved water and air quality, reduction in urban heat island effect, habitat enhancement and improved aesthetics.

» **Public information and programming.** They provided information and programming to communicate the value of the park project and Miami-Dade County investment to the community and park patrons as an educational tool to elevate awareness of climate change, sea level rise, South Florida vulnerabilities and ways to manage and adapt.

Jacobs' analysis of the potential flood risk in 13 of the park's 23 vertical facilities for the select flood scenarios ranges in cost from approximately $138,000 (2020) to $2.4M (2100), while the flood mitigation investments for the same facilities range from approximately $112,000 (2020) to $1.5M (2100), indicating value in flood mitigation investment.



Jacobs

Owner: Miami-Dade Parks, Recreation and Open Spaces

Completion Year: 2021

Frontier Park
Prosper, TX

Jacobs

Owner: Town of Prosper

Completion Year: 2012 (Construction)

Jacobs prepared a revised master plan for the Prosper Sports Complex through a community engagement process, which included sports organizations, stakeholder groups, local residents, and various town leaders. Frontier Park is now an 85-acre community park serving a balance of active sporting facilities for baseball, softball and soccer, as well as passive recreation opportunities along the natural drainage corridor. The revised plan attained additional ball fields, an enhanced sense of place and a realistic budget.

In addition to the master plan, Jacobs prepared construction documents for Phase I development, which included a baseball/softball five-plex that was designed to serve local competition and tournament events, a multi-purpose field area for soccer, lighted parking, pedestrian plazas, and extensive landscape improvement.

White Rock Lake Dog Park
Dallas, TX

Jacobs

Owner: City of Dallas

Completion Year: 2015

The newly renovated White Rock Lake Dog Park is located on the shores of White Rock Lake. It is heavily used, being the only dog park in this dense urban area of the city. The park includes an enlarged two-acre large dog area and a one-acre small dog area. The dog park was redesigned to deal with challenges of poor drainage and soils by installing an underground drain system throughout the entire park area. Also added were a pavilion, six shade structures, fountains, waste stations, new fencing and gates, lighting, sidewalks, new trees and lawn, and rehabilitation of the parking area. Most unique to this dog park is the new Dog Launch on the lake shore. This area allows dog owners and their dogs easy access to the lake water. This is a very popular amenity for the dogs, allowing them to take a swim in the hot summers with safe and easy access.

Parks & Recreation Sports Field Lighting Replacement

Palm Beach County, FL

Program consultants and construction management of multi-phase replacement of over 3,500 existing metal halide light fixtures with 1,650 LED fixtures on 460 existing poles at 159 venues located in 17 parks throughout Palm Beach County. Due to the project consisting of multiple separate contracts, innovative project management strategies were developed, including cross-coordination of multiple contractors, multiple design engineers and the light fixtures supplier. The result was universal celebration by facilities users for enhanced facilities, Palm Beach County Parks & Recreation for on-time and under-budget management of the program, neighboring communities for reduced light spill, and County Administration for improved security and safety.

Jacobs

Owner: Palm Beach County

Completion Year: 2024

Housing + Open Space Masterplan for the Ute Mountain Ute Tribe

Towaoc, CO

The Housing + Open Space Masterplan for the Ute Mountain Ute Tribe in 2017 resulted from grant consulting work of Santicola & Company, and project facilitation by Beverly Santicola. The Ute Mountain Ute Tribe received a grant in the amount of $250,000 from USDA for a Rural Communities Development Initiative authored by the Santicola & Company grant writing team. A matching grant in the amount of $250,000 was generated from Colorado Housing and Finance Authority as a result of Santicola & Company's ability to cultivate relationships with public/private donors. The project involved working closely with the international award-winning architectural firm of KoningEizenberg Architecture in Santa Monica, California, which was sought out and recruited by Santicola & Company and approved by the Ute Mountain Ute Tribal Council to do the work. A Tribal Council for Native American Tribes is similar to a City Council in a metropolitan area, where the Council is elected by the people. Santicola & Company works closely with Tribal Councils to identify funding for all their housing, infrastructure, capital, social, health, and justice needs.

KoningEizenberg Architecture entered into contract with the Ute Mountain Ute Tribe in 2016 to complete a Comprehensive Housing Masterplan and were joined by landscape architects D.I.R.T. studio + Ten X Ten to complete an Open Space Masterplan component in 2016.

Owner: Ute Mountain Ute Tribe

Completion Year: 2017

Southridge Park Community Recreation and Aquatic Center

Miami, FL

Miami-Dade County's Parks and Open Spaces Master Plan is committed to building a healthy and vibrant livable community. MC Harry & Associates, Inc. has been addressing the County's planning and design goals for the 300-square-mile Region C area of Southwest Miami-Dade County that contains more than 60 public parks and preserve areas including Southridge Park.

The project's design includes a two-story lobby/reception space bordered by a multi-purpose/events space, fitness room, kids corner play area. An atrium lobby leads to an outdoor dining patio, splash pad, and eight-lane competition swimming pool. Support spaces include a warming kitchen and locker rooms.

The Terracon Team performed subsurface exploration and geotechnical engineering services including the advancement of test borings and percolation tests, laboratory testing, and reporting. The firm provided information and geotechnical engineering recommendations concerning subsurface soil conditions, groundwater conditions, site preparation and earthwork, excavation considerations, foundation design and construction, floor slab design and construction, and pavement design and construction.

Terracon

Owner: Miami-Dade County

Completion Year: 2019

Esther Mae Armbrister Park

Miami, FL

Esther Mae Armbrister Park is a 4.4-acre City of Miami park in the Coconut Grove neighborhood. The project involves demolition of the existing community center building and construction of a new two-story facility measuring approximately 10,000 square feet (SF) and an outdoor pavilion.

Terracon performed subsurface exploration and geotechnical engineering services for the proposed structures. The scope of work included the advancement of test borings and percolation tests. Information and geotechnical engineering recommendations were provided concerning subsurface soil conditions, groundwater conditions, site preparation and earthwork, excavation considerations, foundation design and construction, floor slab design and construction, and hydraulic conductivity (K-value).

As part of the redevelopment of this portion of Armbrister Park, environmental consulting services were warranted, and were performed by Terracon, to address soils impacted with metals prior to and during the development of the new facilities, including interfacing with Miami-Dade County and onsite oversight of soil management activities and air monitoring during construction. Terracon's scope of work included preparing a Soil Management Plan/Dust Control Plan (SMP/DCP); conducting a pre-demolition asbestos, lead, and hazardous materials survey; providing SMP/DCP compliance oversight, air monitoring, and reporting; and preparing an SMP/DCP summary report.

Terracon

Owner: City of Miami

Completion Year:
2020 (Geotechnical);
2023 (Environmental)

Pompano Beach Amphitheater

Pompano Beach, FL

The project consisted of the construction of a membrane roof over the existing Pompano Beach Amphitheater that is located within the Pompano Community Park at the SW Corner of US 1/Federal Highway and NE 10th Street in Pompano Beach, Florida. It is proposed that the roof cables connect to a rigid steel truss that rests on top of two towers in the front, and at the back the membrane is supported by a series of columns (cable-supported masts). The project includes truss columns in the front of the structure and cables and mast on the rear of the structure to be supported on piles.

Terracon performed subsurface exploration and geotechnical engineering services in 2018 for the proposed roof. The scope of work included the advancement of test borings to a depth of 90 feet below existing site grades. The borings were advanced with a truck-mounted drill rig using a rotary method. They observe and record groundwater levels during drilling and sampling. For safety purposes, all borings are backfilled with soil cuttings after their completion. Pavements are patched with cold-mix asphalt and/or pre-mixed concrete, as appropriate. The samples were placed in appropriate containers and taken to their soil laboratory for testing and classification by a geotechnical engineer.

The purpose of these services is to provide information and geotechnical engineering recommendations relative to subsurface soil (and rock) conditions; groundwater conditions; site preparation and earthwork; and foundation design and construction. Terracon delivered the firm's information, opinions, and recommendations using GeoReport®, a web-based information and delivery collaboration portal.

In 2020, the updated loads for the amphitheater roof membrane became available. Per the client's request, Terracon evaluated 16- and 18-inch auger cast piles to support the foundations of the proposed roof membrane.

Terracon

Owner: City of Pompano Beach

Completion Year: 2018; 2020

David Park

Margate, FL

Project No. 1

At the time of Terracon's services, the proposed project was planned to include the installation of a new pre-fabricated restroom structure, pre-fabricated shelter, and new parking area at David Park. Terracon provided geotechnical engineering services. Standard Penetration Test (SPT) borings were performed to depths ranging from 10 to 20 feet below the existing ground surface within the area to define the nature, sequencing, and condition of the subsurface materials. The purpose of these services was to provide information and geotechnical engineering recommendations relative to subsurface soil conditions, groundwater conditions, earthwork, floor slab design and construction, foundation design and construction, and pavement design and construction.

Project No. 2

The existing retention pond at David Park was not functioning properly. Terracon provided geotechnical engineering services that included field exploration and double ring testing. These services were required to evaluate the infiltration rates of the existing soils. Results of their field program were evaluated by a professional engineer. The engineer performed the engineering calculations necessary to evaluate the infiltration data. The data report provided the following: site and test location plan; and double ring infiltration test results.

Terracon

Owner: City of Margate

Completion Year:
2017 (Project No. 1);
2021 (Project No. 2)

Truman Waterfront Upland Improvement

Key West, FL

Scope of services provided included cost estimating and master plan program cost estimates. RIB U.S.COST provided cost estimating services in support of the development of a portion of surplus Navy property known as the Truman Waterfront Upland parcels, located in Key West, Florida. Features include 23 acres of developed waterfront property for mixed use, retail, parks, and a cruise port.

RIB U.S.COST services were performed for landscape, subsurface/infrastructure, utility design; roads and pedestrian access; ecological and environmental; amphitheaters/event plazas; waterfront design; alternative supplemental energy sources, and recreation/historic areas.

RIB U.S.COST provided master plan program cost estimates including construction costs for each project including contingencies, escalation and soft costs.

RIB U.S.COST

Owner: Department of the Navy

Completion Year: 2014

Jacksonville Riverfront Plaza

Jacksonville, FL

Multi-phase cost estimating for the redevelopment of the existing Riverfront Landings with a new café/beer garden pavilion and restroom. The café will have a landscaped roof providing pedestrian access with a large, landscaped greenspace with multiple view/ relaxation areas. $43M.

RIB U.S.COST

Owner: City of Jacksonville

Completion Year: 2024

Charles Deering Estate (Museum, Residence, Office)

Palmetto Bay, FL

Multi-phase cost estimating for the Charles Deering Estate Stone House Repair and Renovations project includes a full restoration of all interior and exterior architectural and structural elements, reroofing and repair of all doors, windows, shutters and screens; new AC unit on the third floor. Repairs for plumbing, HVAC, and electrical systems are also included. $2.5M. 14,200 SF (5,300-SF roof).

The graceful Mediterranean revival–style Stone House, built by Charles Deering to showcase his valuable art collection, was constructed in 1922. Charles Deering died in 1927, but the estate remained with his heirs until 1986 when it was purchased by the State of Florida and added to the National Registry of Historic Places. Most of Deering's original art collection was donated to the Art Institute of Chicago and the Libraries at Northwestern University by his daughters. Today, the Deering Estate is managed by Miami-Dade County's Parks, Recreation and Open Spaces Department and supported by the Deering Estate Foundation, Inc.

RIB U.S.COST

Owner: Miami-Dade Parks, Recreation and Open Spaces

Completion Year: 2023

Amelia Earhart Park

Hialeah, FL

A conceptual cost estimate for the Amelia Earhart Park improvements located in the City of Hialeah. $6.5M.

- **Project A – Community Center:** A new 30,000-SF Community Center Building with indoor pool area. This facility will have 120 parking spaces (asphalt) and landscaping with irrigation and lighting of the parking lot.
- **Project B – Soccer Fields:** This will be the addition of four soccer fields (225 feet by 360 feet), with sport lighting, two bleachers and covered structures at each field.
- **Project C – Walkway Loop:** The addition of a new 12-foot-wide asphalt walkway around the lake connecting to an existing walkway in the northeast and a walkway on the south side.
- **Project D – Mountain Bike Restroom Building:** A new free-standing restroom building approximately 1,600 SF, intended to serve the users of the mountain bike trail located in the northeast quadrant of the park.
- **Project E – Maintenance Facility Improvements:** Renovation of the existing building and the addition of office space.
- **Project F – Access Control and Entry Improvements:** The scope of this work includes the addition of wood railing fencing along the roadway to control vehicles. This project also includes two new entry signs at the two access points to the park including landscaping and uplighting.

RIB U.S.COST

Owner: City of Hialeah

Completion Year: 2018

Sullivan Park Expansion

Deerfield Beach, FL

RIB U.S.COST provided cost estimating services in support of the rehabilitation, renovation and expansion of the existing Sullivan Park including boat dock and seawall modifications. The redeveloped park provides an amenity to the Cove Shopping Center and the surrounding community by activating the park with marine facilities like boat slips for transient boats and floating docks for canoes and kayaks, constructing a pedestrian boardwalk along the water's edge that connects to the Cove Shopping Center and creating a more pleasant park space.

RIB U.S.COST provided cost estimating services at the programming phase, schematic, design development, 50% CD and 100% CD. $4.7M.

RIB U.S.COST

Owner: City of Deerfield Beach

Completion Year: 2014

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.7 References

4.2.7 References

The CES Team has an excellent past performance history with public-sector clients and agencies. We have an established record of experience and performance with public-sector clients and agencies that exemplifies the quality and ability that the City desires. References are included below and on the following pages.

West End Park Pool & Enhancements

Miami, FL

References:

City of Miami
Armando Pelaez
444 SW 2nd Avenue
Miami, FL 33130
305.505.0770
apelaez@miamigov.com

City of Miami
Daniel Lopez
444 SW 2nd Avenue
Miami, FL 33130
786.512.9842
daniellopez@miamigov.com

Completion Year: 2025

Total Cost of the Construction: $16,841,938 (Estimated); $15,552,271 (Actual)

Project management oversight and coordination for this $16.8M City Bond-funded project. New and improved proposed elements of the park include a new multi-use sports field, a walking trail with exercise equipment stations, two tennis courts, two basketball courts, a landscaped shaded plaza with sitting areas, a children's splash pad with spray features, dumping buckets, climbable waterplay, waterfall wall, a new pool building with a new swimming pool for recreational swimming and lessons, including a wellness lap pool component, a new entry plaza with service entrance and a paved walkway, a lightning warning system, and Art in Public Places components.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Shenandoah Park Improvements & Pool Enhancements

Miami, FL

Project management oversight and coordination for this ±$9M City Bond-funded project that includes planning, design and construction services for general park enhancements. New and improved elements of the park included a new swimming pool facility, two new basketball courts, a new soccer field, fitness equipment, a library plaza, and ball field improvements.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Reference:
City of Miami
Hector Badia
444 SW 2nd Avenue
Miami, FL 33130
305.416.1236 (Office)
305.798.8445 (Mobile)
hbadia@miamigov.com

Completion Year: 2025

Total Cost of the Construction: $9,570,383 (Estimated); $11,700,315 (Actual) (Owner added scope)

Fairlawn Community Park, Phases I & II

Miami, FL

Project management oversight and coordination for this ±$1.6M project. The newly constructed park includes new playground areas for toddlers ages 2–5 and one for children ages 5–9, walkways/pathways around the park, an abundance of trees, water stations, bike racks, and a dog run area with a pet waste station. Roadway improvements around the park were also part of the scope.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Reference:
City of Miami
Jose Montoya
444 SW 2nd Avenue
Miami, FL 33130
305.416.1297 (Office)
305.753.7279 (Mobile)
jmontoya@miamigov.com

Completion Year:
2024 (Phase I);
2025 (Phase II)

Total Cost of the Construction: $2,416,907 (Estimated); $2,729,584 (Actual) (Owner added scope)

Bay of Pigs Memorial Park

Miami, FL

Project management oversight and coordination for significant improvements to Bay of Pigs Memorial Park to better serve the community. The City's investment included new outdoor fitness equipment, a children's playground, a walking path, a drinking fountain, lighting, on-street parking, drainage, sidewalk improvements, and new landscaping to provide a green enjoyable outdoor space for the community. The park includes a unique monument designed by renowned sculptor Nilda Comas, featuring a soldier with the Cuban flag, symbolizing hope and resilience. Additionally, permanent bronze plaques depicting the history of the Bay of Pigs Invasion have been installed.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

Reference:
City of Miami
Lidice Bordon
444 SW 2nd Avenue
Miami, FL 33130
305.244.7951
lbordon@miamigov.com

Completion Year: 2023

Total Cost of the Construction: $1,085,300 (Estimated); $1,525,400 (Actual) (Owner added scope)

Douglas Park Dog Run and Walkways

Miami, FL

Project management oversight and coordination, as well as construction management, for the new Dog Run and Walkways Enhancement and Replacement Projects. The new Dog Run elements include a designated, synthetic turf, kidney-shaped area for dog exercise within the existing park, connected through a concrete new sidewalk to the existing pathway; a 5-foot-tall chain-link fence enclosure of the dog area on all sides, complete with a double gate for convenient and controlled access and egress; a multi-level drinking fountain; play equipment specifically for dogs; benches and litter receptacle; and landscaping, irrigation and new lighting.

The Walkways Enhancement and Replacement Projects include replacement of the existing asphalt walkways with new 6-foot-wide colored concrete paths; replacement of existing benches with new furniture and litter receptacles; and a new sidewalk to connect the new dog run park to the existing pathway.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

References:

City of Miami
Hector Badia
444 SW 2nd Avenue
Miami, FL 33130
305.416.1236 (Office)
305.798.8445 (Mobile)
hbadia@miamigov.com

City of Miami
Jose Montoya
444 SW 2nd Avenue
Miami, FL 33130
305.416.1297 (Office)
305.753.7279 (Mobile)
jmontoya@miamigov.com

Completion Year: 2025

Total Cost of the Construction: N/A (Estimated); $1,005,808 (Actual)

City of Miami

Arthur Noriega V
City Manager

February 10, 2023

Re: Letter of Recommendation - Miami Forever Bond Program/Project Management Services

To whom it may concern:

CES Consultants is providing project management, construction management, and program delivery support services for Miami Forever Bond-funded projects, including roadways and rights-of-way, parks, municipal facilities, public facilities, public safety facilities, environmental, sea-level rise, and flood prevention infrastructure projects, as well as other capital project as assigned by the City's Office of Capital Improvements (OCI). Assigned projects include:

Contract Date: 12/2021
Contract Value: $5M (CES fee capacity)
Total Cost: $100M+ construction value (CES projects only/est.)

- I-395 Open Space & Mobility Connector
- I-395 Underdeck/Miami-Overtown Heritage Trail Development
- I-395 Baywalk Pedestrian & Bikeway Bridge
- NW 17th Street from NW 27th Ave. to NW 32nd Ave. Roadway & Drainage Improvements
- NW 17th Street from NW 32nd Ave. to NW 37th Ave. Roadway & Drainage Improvements
- Dinner Key Marina Breakwaters Mitigation Project
- Shenandoah Park Improvements & Pool Enhancements
- West End Park & Pool Enhancements
- Badia Center Facility at Flagami Park
- Douglas Park Community Center
- Flagler Street Beautification

We are extremely pleased with the work performed by CES Consultants and believe they would be an asset to any agency or organization.

Should you have any questions, please contact me at 305.416.1236 or via email at hbadia@miamigov.com.

Sincerely,

Hector Badia
Interim Director, Capital Improvements

HB/hb

OFFICE OF CAPITAL IMPROVEMENTS
444 S.W. 2nd Avenue, 8th Floor / Miami, FL 33130 / (305) 416-1280 / Fax: (305) 416-2153
Mailing Address: P.O. Box 330708 Miami, FL 33233-0708

Doral Central Park

Doral, FL

A new 78-acre park in the heart of Doral featuring an aquatic center with a 50-meter Olympic-standard competition pool, diving platforms, a slide and a leisure area; an 80,000-SF community center, which will offer basketball courts that can convert into volleyball courts, gym with weightlifting area and cardio sections, meeting rooms, a cafe, demo kitchen, gaming areas and locker rooms; an amphitheater; skate park and pump track; new playgrounds; outdoor fitness stations; pavilions; scenic walking and jogging trails surrounded by lush greenery; beach volleyball, basketball and tennis courts; boardwalk; and approximately 1,000 parking spaces.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Reference:
City of Doral
Lazaro Quintero
8401 NW 53rd Terrace
Doral, FL 33166
305.593.6600
lazaro.quintero@cityofdoral.com

Owner: City of Doral

Completion Year: 2025

Total Cost of the Construction: $167.96M (Estimated) (Revised Budget); $155.48M (Actual)

Doral Cultural Arts Center

Doral, FL

Reference:
City of Doral
Lazaro Quintero
8401 NW 53rd Terrace
Doral, FL 33166
305.593.6600
lazaro.quintero@cityofdoral.com

Owner: City of Doral

Completion Year: 2024

Total Cost of the Construction: $10.89M (Estimated) (Revised Budget); $10.86M (Actual)

New $10M Cultural Center in Downtown Doral. This approximately 14,000-SF facility features a large art gallery space, visible from both inside and outside the building; a flexible multi-purpose room; outdoor courtyard; catering area; dedicated vehicular drop-off area; public restrooms; accessible rooftop plaza; additional multi-purpose greenspace; public art; and additional seating areas.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Doral Meadow Park

Doral, FL

Reference:
City of Doral
Lazaro Quintero
8401 NW 53rd Terrace
Doral, FL 33166
305.593.6600
lazaro.quintero@cityofdoral.com

Owner: City of Doral

Completion Year: 2021

Total Cost of the Construction: $1.74M (Estimated) (Revised Budget); $1.61M (Actual)

The project included enclosing existing outdoor patio space to provide 800 SF of indoor recreation area with a new HVAC system. Additionally, the existing building renovation included a high-tech conference room, kitchenette, façade treatments, an indoor trophy case, modernized bathrooms and a multi-purpose outdoor plaza.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Doral White Course Park
Doral, FL

Reference:
City of Doral
Lazaro Quintero
8401 NW 53rd Terrace
Doral, FL 33166
305.593.6600
lazaro.quintero@cityofdoral.com

Owner: City of Doral

Completion Year: 2022

Total Cost of the Construction: $4.02M (Estimated) (Revised Budget); $3.98M (Actual)

This new park includes a shaded playground, a waterfront event plaza, outdoor fitness stations, a multi-purpose green space area, putting green, fenced-off dog area, picnic shelters, restrooms, and a parking lot. The park will have limited landscape lighting with general overhead and walkway lighting and security cameras. A new boardwalk connects this park to Downtown Doral.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.

Morgan Levy Park
Doral, FL

Reference:
City of Doral
Lazaro Quintero
8401 NW 53rd Terrace
Doral, FL 33166
305.593.6600
lazaro.quintero@cityofdoral.com

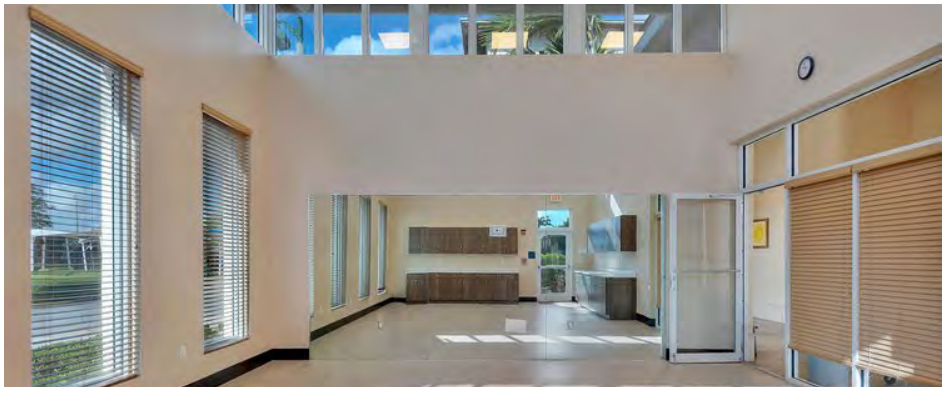
Owner: City of Doral

Completion Year: 2021

Total Cost of the Construction: $701K (Estimated) (Revised Budget); $704K (Actual)

This project involved the removal and replacement of existing flooring in multi-purpose rooms, new millwork in multi-purpose rooms and concession area, painting, expansion of office spaces for facility operations, and addition of a grease interceptor. Also included the addition of ADA-accessible routes to the picnic areas, and transitioning to high-efficiency LED fixtures in the parking area, as well as adding and enhancing security cameras. The building footprint was increased by ±300 SF for the addition of a new staff break room and dedicated IT room.

This project is part of the individual experience of James (Jim) P. Wille, CGC while with another firm. Jim served as Senior Construction Project Manager/Program Director for the design and construction of five parks and other facilities under the City of Doral's Bond Program. This was one of the projects executed under the Bond Program.



Bluesten Park

Hallandale Beach, FL

Bluesten Park includes a 42,000-square-foot Gold LEED-certified recreation center with pool and splash play area, soccer multi-use field, three baseball fields, three basketball courts, two tennis courts, two racquetball courts, boundless ADA-inclusive playground, walking trails and pavilions, and full promenade streetscape design for surrounding streets for pedestrian-friendly corridors and parallel parking. Craven Thompson & Associates provided landscape architecture, surveying, civil engineering, and CEI services for the project.

Reference:
City of Hallandale Beach
Cathie Schanz, CPRE
400 South Federal Highway
Hallandale Beach, FL 33009
954.457.1452
cschanz@cohb.org

Completion Year: 2020

Total Cost of the Construction: $31,521,970 (Estimated); $33.4M (Actual)

Stunson Nature Trail and Platform

Oakland Park, FL

The City of Oakland Park recently converted an underutilized piece of land used primarily for the storage of stormwater runoff into a park, demonstrating the region's various ecological zones with the use of plant selection and educational signage. The site continues to support stormwater runoff, but now connects a string of County and City parks, further providing open space and natural habitats for the community. Stunson Nature Trail is located in the Royal Palm Acres neighborhood in the City of Oakland Park. Craven Thompson & Associates provided surveying, civil engineering, and landscape architectural services. Park improvements included:

- Creation of an educational experience along a walking trail that emphasizes the primary environmental zones.
- Enhanced wetland area.
- New landscaping and irrigation.
- Creation of earthen berms.
- Decorative fence with landscape buffer along NE 38th Street.

Reference:
City of Oakland Park
Charlene Montgomery
3650 NE 12th Avenue
Oakland Park, FL 33334
954.630.4426
charlene.montgomery@oaklandparkfl.gov

Completion Year: 2022

Total Cost of the Construction: $602,572 (Estimated); $719,709 (Actual)

Veterans Memorial Park

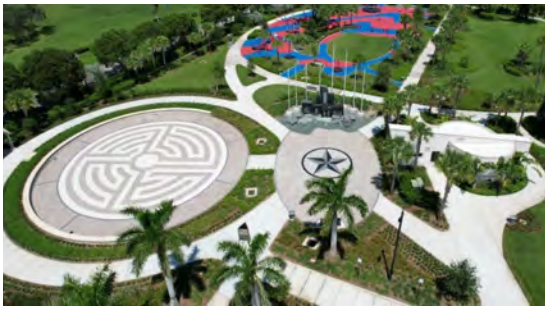
Sunrise, FL

Reference:
City of Sunrise
Earl Prizlee, PE
777 Sawgrass Corporate Parkway
Sunrise, FL 33325
954.888.6002
eprizlee@sunrisefl.gov

Completion Year: 2024 (Construction Completion)

Total Cost of the Construction: $6,328,196 (Estimated); $6,204,960 (Actual)

In a series of new or renovated passive parks in the City of Sunrise, Veterans Memorial Park stands resolute in distinction. Anchoring the park at its center is a large hand-carved Pennsylvania granite monument. Circulating the park are companion monuments, one for each branch of the U.S. Military. In addition, there is an iconic 14,000-square-foot playground and plans to expand the park with an obstacle course similar to those used in military training. Following concept design and project bidding, became responsible for construction administration and observation. Craven Thompson & Associates performed landscape architectural and civil engineering services for the project.



Kiest Park Loop Trail

Dallas, TX

Reference:
City of Dallas
Richard Stauffer, PE
1500 Marilla Street
Dallas, TX 75201
214.670.4100
richard.stauffer@dallascityhall.com

Completion Year: 2016

Total Cost of the Construction: $1.7M (Estimated); $1.4M (Actual)

After completing the Kiest Park Master Plan, Jacobs designed for the rehabilitation of the Kiest Park Loop Trail. The trail has historically been one of the most used trail circuits in the City of Dallas. The trail updates, along with alignment changes and neighborhood connections, created more than two-and-a-half miles of newly paved 12-foot-wide concrete trail for the community. The Kiest Loop also connects to the larger network of regional Dallas County trails. The design included a trailhead at Kiest Boulevard and Hampton, as well as shade structures, exercise stations and site furnishings.

City of Dallas

Re: Letter of Reference for Jacobs

Dear Sir,

The City of Dallas Park and Recreation Department has had the opportunity to work with Jacobs on several projects and strongly recommend them for upcoming projects.

Following are some of the recent projects Jacobs performed for us:

- White Rock Lake Park Dog Park Improvements
- White Rock Lake Park East Lawther Trail Improvements
- Klyde Warren Park over the Woodall Rogers Freeway
- Kiest Park Trail Improvements

These projects included development of the final design through extensive Conceptual Design phases involving a significant amount of public & political input. Work included layout of proposed improvements, materials selection especially for the Klyde Warren Park project to minimize loading of the deck over the freeway, coordination with TXDOT, Corps of Engineers permitting for work in flood plain areas, and compliance with City Ordinances & specific lighting requirements at White Rock Lake. Jacobs also handles Construction Administration including submittal reviews & approval, site inspections & any additional work to resolve issues in the field.

Jacobs has consistently exhibited the highest level of professionalism, attention to detail, quality of deliverables, and schedule observance.

We value the relationship we've established with Jacobs and consider them an invaluable resource to the Park and Recreation Department. We look forward to our continued work together on future projects.

Sincerely,

Richard Stauffer

Richard Stauffer, P.E.
Park and Recreation Department

DEPARTMENT OF PARK AND RECREATION CITY HALL, 6FN 1500 MARILLA DALLAS, TEXAS 75201 TELEPHONE 214/670-4100
It is our mission to enhance the quality of life for our customers by providing leisure, cultural and educational services while preserving, conserving and promoting our natural and physical resources.

Palm Beach County Program Management Services

West Palm Beach, FL

Jacobs

Reference:
Palm Beach County
Bob Hamilton, AICP
2633 Vista Park Parkway
West Palm Beach, FL 33411
561.966.6651
rhamilton@pbcgov.org

Completion Year: Services required by the five-year contract term were completed in 2021; additional one-year extensions to the contract for additional services and projects are ongoing

Total Cost of the Construction: $950M (Estimated); $350,765,600 (Actual to Date) (Variance due to County extending out the program schedule)

Jacobs has been providing program management services to Palm Beach County for its Infrastructure Sales Tax Program since 2017 as part of a five-year contract that has been extended annually. Their scope of work included staff augmentation, project management and project controls to track the budgets, commitments and expenditures over the life of the Sales Tax Program. Jacobs' responsibilities included the tracking and reporting of over 1,300 projects for the $950M program, which was approved by the voters in 2016 to address the County's parks and facilities needs over ten years of tax collections. Jacobs has supplemented the County's project management staff and implemented a project control system, which was utilized to generate detailed monthly reports for the County, the oversight board and the public. The projects included improvements and modifications to numerous Palm Beach County parks, as well as new construction and renovations of facilities, and engineering repairs to roadways and bridges. Notable projects included a conversion of multiple artificial turf fields, re-lighting of fields and courts, new and modifications to aquatic centers, restroom buildings, the Palm Tran office building, a large renovation/addition to the Palm Beach County Sheriff's office headquarters, and courthouse and jail modifications.

Parks and Recreation Department
2700 6th Avenue South
Lake Worth, FL 33461
(561) 966-6600
Email: pbcparks@pbc.gov
www.pbcparks.com

PALM BEACH COUNTY
PARKS & RECREATION

May 14, 2025

City of Fort Lauderdale, Procurement Services Division
101 NE 3rd Ave
Fort Lauderdale, FL 33301

To Whom It May Concern:

It is my pleasure to write this letter of recommendation for Jacobs in their pursuit of the City of Fort Lauderdale Parks Bond and Master Plan Program Management project. Jacobs staff has assisted our Department over the past seven years on a number of park related construction projects funded through the County's One Cent Surtax that was approved by the county's voters in 2016. The Jacobs team has or is currently managing the following large capital projects which total over $75 million:

- Canyon District Park Phases 1 and 2 (Phase 2 underway)
- Mack Bernard (Gramercy) Park Neighborhood Center (nearing completion)
- Lake Lytal Park Aquatic Center (underway)
- Sports Field Turf Replacement (underway)
- Sports Field Lighting Replacement (completed)

Staff assigned by Jacobs to manage these projects are professional and provide a significant amount of knowledge and experience in construction and program management during both the design and construction phases. They attempt to act in the County's best interest and work directly with contractors on adhering to stated designs, schedules and budgets. Cost escalations have occurred on most of their projects, however, this is the direct result of outside economic impacts and not the result of project mismanagement.

As the Director of Planning, Research and Development for the Palm Beach County Parks and Recreation Department I am familiar with the attributes needed to successfully manage and complete park related design and construction projects. I feel that Jacob's recent work experience with the County combined with their overall experience, size and knowledge base will allow for them to successfully manage similar projects for the City of Ft. Lauderdale.

Let me again reiterate my strong support for Jacobs in their pursuit of the Bond and Master Plan project.

Should you have any questions, please feel free to contact me at 561.966.6651 or rhamilton@pbcgov.org.

Best Regards,

Bob Hamilton, AICP

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.8 Minority/ Women (M/WBE) Participation

4.2.8 Minority/Women (M/WBE) Participation

CES is a **Florida Unified Certification Program DBE** and a **Florida State Minority Supplier Development Council MBE**. Copies of our certificates are included below.

FDOT · BROWARD COUNTY FLORIDA · Greater Orlando Aviation Authority

Florida Unified Certification Program

Disadvantaged Business Enterprise (DBE) Certificate of Eligibility

CES CONSULTANTS INC

MEETS THE REQUIREMENTS OF 49 CFR, PART 26
APPROVED NAICS CODES:
541330, 541340

Victoria V. Smith
Victoria V. Smith
DBE & Small Business Development Manager
Florida Department of Transportation

Tampa International Airport · TALLAHASSEE · Votran

THIS CERTIFIES THAT

CES Consultants, Inc.
dba CES Consultants, Inc.

NMSDC National Minority Supplier Development Council

* Nationally certified by the: **FLORIDA STATE MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): 541330; 541990; 541519; 541350; 541340; 541618; 541620; 541690; 922190; 924110

* Description of their product/services as defined by the North American Industry Classification System (NAICS)

07/26/2024		FL02429
Issued Date		**Certificate Number**
07/26/2025	**Ying McGuire** NMSDC CEO and President	Blessm
Expiration Date		**Beatrice Louissaint, President & CEO**

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: http://nmsdc.org

Certify, Develop, Connect, Advocate.

* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®

Additionally, we have partnered with **Garth Solutions, Inc. (GSI)**, a Florida M/WBE, to provide public engagement services. Copies of their certifications are included below.

State of Florida

Woman & Minority Business Certification

Garth Solutions, Inc

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:
09/25/2024 09/25/2026

Pedro Allende
Florida Department of Management Services

Office of Supplier Development
4050 Esplanade Way, Suite 380
Tallahassee, Florida 32399
850-487-0915
www.dms.myflorida.com/osd

Economic Development & Diversity Compliance

THIS CERTIFICATE IS AWARDED TO

Garth Solutions, Inc.

FOR HAVING SUCCESSFULLY MET THE PRESCRIBED STANDARDS SET FORTH BY THE SUPPLIER DIVERSITY OUTREACH PROGRAM OF THE SCHOOL BOARD OF BROWARD COUNTY, FLORIDA FOR

CERTIFICATION

Emerging/Small/Minority/Women Business Enterprise (E/S/M/WBE)
African-American

ON THIS DAY: March 6, 2024

Denise Mincey-Mills

Denise Mincey-Mills
Officer
Economic Development & Diversity Compliance

CERTIFICATION #: WS2255095172
SAP ID: 138668

Expiration Date: March 5, 2026

CES, a 100% minority-owned firm, is committed to meeting goals for subcontracting with and promoting Disadvantage Business Enterprises and Minority- and Woman-owned Small Businesses. This is evidenced by our sponsorship of and attendance at various Small Business Conferences throughout Florida over the last 20+ years, our past projects meeting and exceeding governmental contracting goals by typically assigning 15%–40% of total fees to D/S/M/WBE firms, and subcontracting to D/S/M/WBE firms, even when CES could exceed the contract goals on its own.

CES could not have graduated from SBE status and experienced the growth we have achieved without help and mentoring from larger firms. Giving back, our firm recognizes the importance of nurturing relationships with Small, Woman and Minority Disadvantaged Business Enterprise firms and, as such, has worked with and mentored several firms, not just to fulfill a required percentage. After completing successful projects with these D/S/M/WBE firms, teaching business fundamentals, design coaching, and permitting advice, these firms, in some cases become prime consultants and true partners of CES. Watching these firms develop and grow is a testament to the power of these programs.

PARKS & RECREATION
City of Fort Lauderdale

ces

4.2.9 Subconsultants

4.2.9 Subconsultants

CES, as prime consultant, will lead this contract. CES has assembled an experienced and diverse interdisciplinary team of qualified firms and professionals to provide the services required—a team with strong talent and technical expertise. Our proposed subconsultant team is included below. Additional details on each subconsultant are included on the following pages.

Subconsultant		Services to be Provided
Colliers Engineering & Design	Colliers Engineering & Design, Inc.	» Deputy Program Manager » Surveying
Craven Thompson & Associates	Craven Thompson & Associates, Inc.	» Design Management – Landscape/Hardscape Design » Surveying » Landscape Architecture
Garth Solutions	Garth Solutions, Inc. (M/WBE)	» Public Engagement
GHD	GHD Services Inc.	» Coastal & Marine Engineering » Permitting Lead
Jacobs	Jacobs Engineering Group, Inc.	» Design Management – Facilities Design » Planning » Facilities Architecture » Landscape Architecture » Civil Engineering » Structural Engineering » Mechanical Engineering » Electrical Engineering » Climate Adaptation/Resiliency » Environmental Permitting Specialist » Solid Waste Recycling
Santicola & Company	Santicola & Company	» Grants Management
Terracon	Terracon Consultants, Inc.	» Geotechnical Engineering
RIB U.S.COST	U.S. Cost, Incorporated (dba RIB U.S.COST)	» Cost Estimating

Colliers Engineering & Design, Inc.

Colliers Engineering & Design, Inc. (CED) is a trusted provider of multidisciplinary engineering, surveying, design, and consulting services with a 40-year track record of delivering customized, high-quality solutions to both public- and private-sector clients.

For over a decade, CED has provided comprehensive surveying and planning services to municipalities, counties, and public agencies across Florida. Their team has directly supported a wide range of park and recreation improvement projects—many of which were part of bond-funded capital programs. Their team understands the unique regulatory, budgetary, and stakeholder communication challenges associated with bond-funded work and brings proven strategies for transparent reporting, schedule adherence, and cost control.

CED will manage this contract locally from its Fort Lauderdale office, located at 5320 NW 35th Avenue, Suite 210. This office will serve as the central hub for project oversight, coordination, and client communication. In addition, their network of additional offices across the state—in Boca Raton, Miami, Melbourne, Tampa, Fort Myers, Maitland, and Jacksonville—allows them to rapidly scale resources and provide specialized support for tasks as needed under this contract.

Their staff of over 180 professionals is committed to delivering projects that enhance community well-being while maximizing taxpayer investment. Their project management approach prioritizes proactive communication, clear documentation, and stakeholder alignment—tools that are critical in maintaining public trust and achieving the long-term goals of parks bond programs.

Craven Thompson & Associates, Inc.

Craven Thompson & Associates, Inc. was founded in 1962 and has a large group of professional landscape architects and planners, surveyors, GIS specialists, civil engineers, and CEI personnel. Craven Thompson has been providing consulting services throughout South Florida for the past 63 years.

Craven Thompson is very experienced in providing park design services to municipal entities. They have provided surveying and civil engineering since 1962, GIS since 2006, and landscape architecture since 1979. Their personnel perform most of their work in Broward County for a large number of municipalities.

The design of their parks often features aesthetically pleasing landscapes, green spaces, water bodies, and other natural elements. The water bodies and much of the green area also serve as stormwater quality treatment areas, as well as flood attenuation areas.

Their recent park experience includes:

- Bluesten Park, Hallandale Beach, FL
- Westend Firefighter Park, Davie, FL
- Maria Berman Giulanti Park, Hollywood, FL
- Monarch Lakes Park, Phase 2, Miramar, FL
- Indian Trace Park, Weston, FL
- Stunson Trail, Oakland Park, FL
- Urban Art Park, Oakland Park, FL
- Jaco Pastorius Park, Oakland Park, FL
- Veterans Memorial Park, Sunrise, FL
- 12th Street Park, Sunrise, FL
- Cypress Preserve Park, Sunrise, FL
- Oak Hammock Park, Sunrise, FL
- Nob Hill Soccer Park, Sunrise, FL
- Sunset Strip Passive Park, Sunrise, FL
- Sportsplex, Sunrise, FL
- Caporella Park, Tamarac, FL

Garth Solutions, Inc.

Garth Solutions, Inc. (GSI) has spent over two decades building a legacy of excellence in the public sector. **They have 20 years of public outreach experience across South Florida.**

GSI's in-house talent of web designers, graphic designers, copywriters, and public outreach coordinators enables them to positively impact projects for municipalities. **Notably, for the City of Fort Lauderdale, they provided comprehensive community outreach services for both the Las Olas Beach Park Project and Pompey Park.**

GSI plays an integral role as the lead public outreach consultant on project engagements throughout Broward and Miami-Dade Counties. For many of these projects, they often execute communication and outreach with both internal and external stakeholders, including local communities, HOAs and citizen groups, local businesses, governmental agencies, and planning boards. Over the years, this exposure and experience has enabled them to build strong relationships throughout South Florida, with an understanding of municipal and community dynamics across the region.

GHD Services Inc.

Established in 1928, GHD operates across five continents—North and South America, Asia, Australia, Europe, and the Pacific region. They employ more than 11,000 people in 200+ offices to deliver projects with high standards of safety, quality, and ethics across the entire asset value chain. GHD is licensed in Florida for Professional Engineering, Professional Geology, General Contracting and Asbestos services. GHD is one of the few engineering/consulting firms that have attained an ISO 9001:2015 Certification in Consulting, Engineering, Project Management, Design Services, and Materials Testing. As a result, GHD was ranked by ENR in 2022 as one of the top 27 Design Firms in North America.

Since 2011, GHD has been continuously under contract with the City, completing a wide variety of projects including two current, multi-year contracts with environmental, design, and asset management sustainability requirements.

The City of Fort Lauderdale is one of GHD's key clients, and they have supported the City on 20+ projects over the past 15+ years.

GHD is currently working with the City on the following contracts and projects:

- General Engineering Contract (RFQ No. 12355-106-1)
- Asset Management Consulting Services (RFQ No. 12300-296)
- Coastal Engineering & Hydraulic Modeling Services to support the Replacement of Bridge No. 865727 (Pending NTP)

Jacobs Engineering Group, Inc.

With approximately $12B in annual revenue and a team of almost 45,000, Jacobs provides end-to-end services in advanced manufacturing, cities & places, energy, environmental, life sciences, transportation and water. From advisory and consulting, feasibility, planning, design, program and lifecycle management, they are creating a more connected and sustainable world.

Jacobs has provided planning, design, construction management and environmental services to the National Park Service (NPS) for more than 52 years. As a trusted designer, they work with the NPS to strengthen and protect America's awe-inspiring and historically significant cultural and ecological resources.

Providing architectural and engineering services for National Parks since 1971, Jacobs continues to protect, restore, rebuild and enhance America's magnificent parks for the future. **Over the past five decades, they have provided services at more than 30 national parks**, including Yellowstone, Grand Canyon, Yosemite and Shenandoah National Parks, Bandelier National Monument and Glen Canyon National Recreation Area. Through sustainable solutions, Jacobs aims to strengthen today's parks and prepare them for the future. As an active participant in the National Parks Conservation Association, they have worked to advocate for more than 4,000 landscapes, seashores and cultural and historical places.

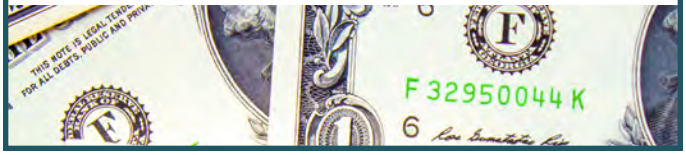
Their professionals assess the entire landscape of the park—from facilities and infrastructure to natural and cultural resources—and consider how they can create resilient solutions that will have minimal impact on day-to-day operations.

Additionally, Jacobs is ranked No. 1 among the Top 50 Program Management Firms (*Engineering News-Record*, 2024).

Santicola & Company

Santicola & Company was established in 2001 and over the past 24 years has worked in multiple communities across the United States, including Native American reservations. Santicola & Company helps communities reach economic, health and social equity by providing grant writing, capacity building, project facilitation and strategic planning services. They have helped generate grant funding for community development, including arts, broadband, culture, economic development, education, healthcare, housing, justice, language, open spaces, transportation, victim services and more. **By teaming up with a group of highly successful entrepreneurs and experts in their respective fields, the Santicola & Company team has individually and collectively generated over $1B in grants in 20+ years and won numerous awards for excellence in leadership.** In 2010 and 2014, Beverly Santicola, the company's President and majority owner, was selected out of 1,600 national nominations as a Purpose Prize Fellow by Encore.org. In 2015, Santicola & Company designed and implemented the first-ever Native National Partnership Retreat that recruited over 40 funding agencies to participate in a three-day event for just one client that resulted in the generation of $166M in new grant funding. **Their track record of success is 95%, in comparison to the national standard of 65%.**

Additionally, Santicola & Company worked with CES over 12 months to identify grants for the Miccosukee Tribe in Miami, Florida on a septic-to-sewer project. The Tribe had its own internal grant writer, but Santicola & Company worked to identify and co-develop applications due to its long-term, well-established relationships with federal funding partners.



Terracon Consultants, Inc.

Since their founding in 1965, Terracon has grown into a thriving, employee-owned, multidisciplinary engineering consulting firm delivering facilities, environmental, geotechnical, and materials services. Their more than 7,000 curious minds include engineers, scientists, architects, facilities experts, and field professionals focused on solving engineering and technical challenges from more than 180 locations nationwide, including a 13-office network in Florida. **Terracon consistently ranks as a top 20 design firm by *Engineering News-Record*.**

Terracon has over 60 years of professional engineering expertise. With more than three decades of experience within the local geologic settings, their team has a strong presence in the City of Fort Lauderdale. Their journey with the City began approximately 20 years ago, providing professional geotechnical engineering and laboratory services as a prime consultant. They have also served as a subconsultant for 30+ years for various City projects, extending their services to federal, state, county, and private-sector projects within the City boundaries.

Their local expertise encompasses a wide range of projects, including buildings, parks, parcels of land for potential development, transportation, and utilities. This extensive experience in the local area equips them with invaluable institutional knowledge, translating to significant time savings and added value for the City and its citizens.

U.S. Cost, Incorporated (dba RIB U.S.COST)

RIB U.S.COST is recognized as a leading cost management and project controls firm, assisting their clients with program management, cost estimating, value engineering and scheduling since 1983. RIB U.S.COST has a successful portfolio of estimating services for Florida projects of all types. **RIB U.S.COST's experience within Florida includes cost estimating, scheduling, program management, project controls and value engineering studies.** They currently have several contracts to provide ongoing cost estimating services in Florida, including a prime contract with the Miami-Dade Aviation Department providing professional cost estimating and scheduling services. This contract has been held/won for two consecutive runs—14+ years.

A sampling of Florida projects include the following:

- Miami-Dade County, Miami International Airport, Capital Improvement Program, Professional Cost Estimating & Constructability Services (Current Prime Contract for 8+ years), Miami-Dade County, FL
- City of Miami Beach, Constructability, Cost and Value Engineering Review Services (Prime Contract), Miami Beach, FL
- Miami Dade College, Owner's Representative Program Controls Services, Miami-Dade County, FL
- Convention Center Renovation, Miami Beach, FL
- West End Park Improvements, Miami, FL
- Charles Deering Estate, Palmetto Bay, FL
- Sullivan Park, Deerfield Beach, FL
- Triangle Park, Doral, FL
- Central Park Amphitheater, Doral, FL
- Aquatic Facility, Miami Springs, FL
- Senior Center, Miami Springs, FL
- Tobie Wilson Park, Medley, FL
- Truman Waterfront Park, Key West, FL

4.2. Required Forms

4.2. Required Forms

As required, we have included the following forms in this section:

- a. Sample Insurance Certificate
- b. Local Business Preference Certification
- c. Disadvantaged Business Enterprise Preference Certification
- d. Non-Collusion Statement
- e. Non-Discrimination Certification Form
- f. E-Verify Affirmation Statement
- g. Payment Method
- h. Bid/Proposal Certification
- i. Affidavit of Compliance with Foreign Entity Laws
- j. Anti-Human Trafficking Affidavit
- k. Drug Free Certification

Client#: 1053638 CESCON

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/10/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
USI Insurance Services, LLC 2502 N Rocky Point Drive Suite 400 Tampa, FL 33607	PHONE (A/C, No, Ext): 813 321-7500	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Travelers Property Cas. Co. of America	25674
INSURED CES Consultants, Inc. 880 Southwest 145th Avenue, Suite 106 Pembroke Pines, FL 33027	INSURER B : Phoenix Insurance Company	25623
	INSURER C : XL Specialty Insurance Company	37885
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY	X	X	6609D349718TCT23	12/06/2024	12/06/2025	EACH OCCURRENCE	$1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$1,000,000
							MED EXP (Any one person)	$10,000
							PERSONAL & ADV INJURY	$1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$2,000,000
	OTHER:							$
A	AUTOMOBILE LIABILITY	X	X	BA2R165655	12/06/2024	12/06/2025	COMBINED SINGLE LIMIT (Ea accident)	$1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
A	X UMBRELLA LIAB X OCCUR	X	X	CUP4K364717	12/06/2024	12/06/2025	EACH OCCURRENCE	$5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$5,000,000
	DED X RETENTION $10,000							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N		X	UB0P573198	12/06/2024	12/06/2025	X PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N	N / A					E.L. EACH ACCIDENT	$1,000,000
	(Mandatory in NH)						E.L. DISEASE - EA EMPLOYEE	$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	$1,000,000
C	Professional Liability			DPR5037135	12/06/2024	12/06/2025	$5,000,000 per claim $5,000,000 annl aggr.	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Professional Liability coverage is written on a claims-made basis.

CERTIFICATE HOLDER

For Proposals

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03) 1 of 1 #S47283530/M47283524

The ACORD name and logo are registered marks of ACORD

MRLEW

LOCAL BUSINESS PREFERENCE

Section 2-199.2, Code of Ordinances of the City of Fort Lauderdale, (Ordinance No. C-12-04), provides for a local business preference.

In order to be considered for a local business preference, a bidder must include the Local Business Preference Certification Statement of this ITB, as applicable to the local business preference class claimed **at the time of bid submittal.**

> Upon formal request of the City, based on the application of a Local Business Preference the Bidder shall, within ten (10) calendar days, submit the following documentation to the Local Business Preference Class claimed:

A) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **and**

B) List of the names of all employees of the bidder and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the local business preference.

THE COMPLETE LOCAL BUSINESS PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK:
https://library.municode.com/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PR_S2-186LOBUPR

Definitions: The term "Business" shall mean a person, firm, corporation or other business entity which is duly licensed and authorized to engage in a particular work in the State of Florida. Business shall be broken down into four (4) types of classes:

1. Class A Business – shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City **and** shall maintain a staffing level of the prime contractor for the proposed work of at least fifty percent (50%) who are residents of the City.

2. Class B Business - shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City **or** shall maintain a staffing level of the prime contractor for the proposed work of at least fifty percent (50%) who are residents of the City.

3. Class C Business - shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone **and** staffed with full-time employees within the limits of Broward County.

4. Class D Business – shall mean any Business that does not qualify as either a Class A, Class B, or Class C business.

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local business price preference classification as indicated herein, and further certifies and agrees that it will re-affirm its local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

(1) _____ is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the City of Fort Lauderdale current year Business Tax Receipt **and** a complete list of full-time employees and evidence of their addresses shall be provided within 10 calendar days of a formal request by the City.
Business Name

(2) _____ is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the Business Tax Receipt **or** a complete list of full-time employees and evidence of their addresses shall be provided within 10 calendar days of a formal request by the City.
Business Name

(3) CES Consultants, Inc. is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.
Business Name

(4) _____ requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
Business Name

(5) _____ requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
Business Name

(6) _____ is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186 and does not qualify for Local Preference consideration.
Business Name

BIDDER'S COMPANY: CES Consultants, Inc.

AUTHORIZED COMPANY PERSON: Juan Alfonso, AIA, NCARB, RID, CCM (PRINT NAME) President & COO (SIGNATURE) June 23, 2025 (DATE)

Forms Non-ISO Revision 09-2022

Broward County Business Tax Receipt

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

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

VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

Business Name: CES CONSULTANTS INC
Receipt #: 327-227398
Business Type: BUSINESS/FINANCIAL/CONSULTANT (ENGINEERING CONSULTANTS)

Owner Name: CES CONSULTANTS INC
Business Location: 880 SW 145 AVE STE 106 PEMBROKE PINES
Business Phone: 305-827-2220
Business Opened: 09/10/2009
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		3		

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
33.00	0.00	0.00	0.00	0.00	0.00	33.00

Receipt Fee 33.00
Packing/Processing/Canning Employees 0.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED

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

Mailing Address:

CES CONSULTANTS INC
880 SW 145 AVE STE 106
PEMBROKE PINES, FL 33027

Receipt #WWW-23-00294999
Paid 09/23/2024 33.00

2024 - 2025

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

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

VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

Business Name: CES CONSULTANTS INC
Receipt #: 327-227398
Business Type: BUSINESS/FINANCIAL/CONSULTANT (ENGINEERING CONSULTANTS)

Owner Name: CES CONSULTANTS INC
Business Location: 880 SW 145 AVE STE 106 PEMBROKE PINES
Business Phone: 305-827-2220
Business Opened: 09/10/2009
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		3		

Signature

For Vending Business Only — Number of Machines: — Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
33.00	0.00	0.00	0.00	0.00	0.00	33.00

Receipt #WWW-23-00294999
Paid 09/23/2024 33.00

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PREFERENCE

Section 2-185, Code of Ordinances of the City of Fort Lauderdale, provides for a disadvantaged business preference.

In order to be considered for a DBE Preference, a bidder must include a certification from a government agency, as applicable to the DBE Preference class claimed **at the time of bid submittal**.

Upon formal request of the City, based on the application of a DBE Preference the Bidder shall, within ten (10) calendar days, submit the following documentation to the DBE Class claimed:

A) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **or** State of Florida active registration **and/or**

B) List of the names of all employees of the bidder and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the disadvantaged business preference.

THE COMPLETE DBE PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK: https://www.fortlauderdale.gov/home/showpublisheddocument?id=56883

Definitions

a. The term "disadvantaged class 1 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

b. The term "disadvantaged class 2 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the city with a full-time employees and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

c. The term "disadvantaged class 3 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

d. The term "disadvantaged class 4 enterprise" shall mean any disadvantaged business enterprise that does not qualify as a Class A, Class B, or Class C business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the disadvantaged business enterprise price preference classification as indicated herein, and further certifies and agrees that it will re-affirm its preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this solicitation. Violation of the foregoing provision may result in contract termination.

(1) _____ Business Name is a disadvantaged class 1 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(2) _____ Business Name is a disadvantaged class 2 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the city with a full-time employee(s) and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(3) _____ Business Name is a disadvantaged class 3 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

(4) CES Consultants, Inc. Business Name is a disadvantaged class 4 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that does not qualify as a Class A, Class B, or Class C business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

(5) _____ Business Name is not considered a Disadvantaged Enterprise Business as defined in the City of Fort Lauderdale Ordinance Sec.2-185 and does not qualify for DBE Preference consideration.

BIDDER'S COMPANY: CES Consultants, Inc.

AUTHORIZED COMPANY PERSON: Juan Alfonso, AIA, NCARB, RID, CCM (PRINT NAME) President & COO (SIGNATURE) June 23, 2025 (DATE)

Forms Non-ISO Revision 09-2022

Florida Unified Certification Program Disadvantaged Business Enterprise (DBE)

Florida Unified Certification Program

Disadvantaged Business Enterprise (DBE)
Certificate of Eligibility

CES CONSULTANTS INC

MEETS THE REQUIREMENTS OF 49 CFR, PART 26
APPROVED NAICS CODES:
541330, 541340

Victoria V. Smith
DBE & Small Business Development Manager
Florida Department of Transportation

Florida State Minority Supplier Development Council MBE

THIS CERTIFIES THAT

CES Consultants, Inc.

dba CES Consultants, Inc.

NMSDC
National Minority Supplier Development Council

* Nationally certified by the: **FLORIDA STATE MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): 541330; 541990; 541519; 541350; 541340; 541618; 541620; 541690; 922190; 924110

* Description of their product/services as defined by the North American Industry Classification System (NAICS)

07/26/2024		FL02429
Issued Date		**Certificate Number**
	Ying McGuire **NMSDC CEO and President**	
07/26/2025		
Expiration Date		**Beatrice Louissaint, President & CEO**

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: http://nmsdc.org

Certify, Develop, Connect, Advocate.

* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®

State of Florida Active Registration

State of Florida
Department of State

I certify from the records of this office that CES CONSULTANTS, INC. is a corporation organized under the laws of the State of Florida, filed on October 6, 1997.

The document number of this corporation is P97000085972.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 6, 2025, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Sixth day of January, 2025

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

Secretary of State

Tracking Number: 0859582493CC

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

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

FLORIDA DEPARTMENT of STATE DIVISION OF CORPORATIONS

Sunbiz.org DIVISION of CORPORATIONS an official State of Florida website

Department of State / Division of Corporations / Search Records / Search by Entity Name /

Detail by Entity Name

Florida Profit Corporation
CES CONSULTANTS, INC.

Filing Information

Document Number	P97000085972
FEI/EIN Number	65-0792884
Date Filed	10/06/1997
State	FL
Status	ACTIVE
Last Event	REINSTATEMENT
Event Date Filed	02/23/2001

Principal Address

3150 SW 38th Avenue
Suite 450
Miami, FL 33146

Changed: 05/13/2024

Mailing Address

3150 SW 38th Avenue
Suite 450
Miami, FL 33146

Changed: 05/13/2024

Registered Agent Name & Address

ORTIZ, RUDY
3150 SW 38th Avenue
Suite 450
Miami, FL 33146

Name Changed: 05/13/2024

Address Changed: 01/06/2025

Officer/Director Detail

Name & Address

Title CEO, Chairman, Secretary

ORTIZ, RUDY
880 SW 145th Avenue
Suite 106
Pembroke Pines, FL 33027

Title Senior Vice President

Hoot, David
2056 Vista Parkway
Suite 200
West Palm Beach, FL 33411

Title CEO

Ortiz, Rudy M
208 North Laura Street
Suite 800
Jacksonville, FL 32202

Title Senior Vice President

NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

> 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g., ownership of five (5) percent or more).
>
> 3.4. Immediate family members (spouse, parents, and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME	RELATIONSHIPS
N/A	N/A

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

Authorized Signature

President & COO
Title

Juan Alfonso, AIA, NCARB, RID, CCM
Name (Printed)

June 23, 2025
Date

Rev 09-2022

CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH NON-DISCRIMINATION PROVISIONS OF THE CONTRACT

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding $100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

(i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.

(ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

Authorized Signature

Juan Alfonso, AIA, NCARB, RID, CCM
President & COO
Print Name and Title

June 23, 2025
Date

Forms Non-ISO 09/2022

E-VERIFY AFFIRMATION STATEMENT

Solicitation/Bid /Contract No: RFQ Event No. 457

Project Description: Parks Bond & Master Plan Design and Program Management

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

A. all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,

B. all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: CES Consultants, Inc.

Authorized Company Person's Signature: _____

Juan Alfonso, AIA, NCARB, RID, CCM

Authorized Company Person's Title: President & COO

Date: June 23, 2025

CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

____ MasterCard

__X__ Visa

CES Consultants, Inc.
Company Name

Juan Alfonso, AIA, NCARB, RID, CCM
Name (Printed)

Signature

President & COO
Title

June 23, 2025
Date

Rev. 09/2022_lp

CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the City's on-line strategic sourcing platform prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).

Company: (Legal Registration) CES Consultants, Inc. EIN (Optional): 65-0792884

Address: 880 SW 145th Avenue, Suite 106

City: Pembroke Pines State: FL Zip: 33027

Telephone No.: 954.613.4353 FAX No.: N/A Email: cesinfo@cesconsult.com

Delivery: Calendar days after receipt of Purchase Order **(section 1.02 of General Conditions)**: N/A

Total Bid Discount **(section 1.05 of General Conditions)**: None

Check box if your firm qualifies for DBE **(section 1.09 of General Conditions)**: ☒

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
1	May 9, 2025						
2	June 9, 2025						

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A.

N/A

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars ($500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Juan Alfonso, AIA, NCARB, RID, CCM
Name (printed)

Signature

June 23, 2025
Date

President & COO
Title

revised 09-2022

AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)

2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)

3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)

4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)

5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)

6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(l), Florida Statutes)

7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.

8. ***(Only applicable if purchasing real property)*** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source:§§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

9. The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: Juan Alfonso, AIA, NCARB, RID, CCM Title: President & COO Entity: CES Consultants, Inc.

Signature: _____ Date: June 23, 2025

NOTARY PUBLIC ACKNOWEDGEMENT SECTION

STATE OF Florida

COUTY OF Broward

The foregoing instrument was acknowledged before me, by means of ❑ physical presence or ☒ online notarization, this 23rd day of June 20 25 by Juan Alfonso, AIA, NCARB, RID, CCM, as President & COO for CES Consultants, Inc., who is

personally known to me or who has produced N/A as identification.

Notary Public Signature: _____ (Notary Seal)

JANEAN INES MALDONADO
Notary Public - State of Florida
Commission # HH 258219
My Comm. Expires Apr 27, 2026

Print Name: Janean Ines Maldonado My commission expires: April 27, 2026

CITY OF FORT LAUDERDALE

ANTI-HUMAN TRAFFICKING AFFIDAVIT

Rev Date: 01/13/2025

The undersigned, on behalf of CES Consultants, Inc., (Print complete name incorporated with suffix: INC, LLC, LTD, LP, PA, etc.) a Florida (*State corporation is registered*) profit (Type of entity: profit or non-profit), ("Nongovernmental Entity"), under penalty of perjury, hereby deposes and says:

1. My name is Juan Alfonso, AIA, NCARB, RID, CCM. (Print complete name of corporate officer/authorized representative)
2. I am an [X] officer or [ ] authorized representative (Select one) of the Nongovernmental Entity. My title is: President & COO. (Print title of corporate officer/authorized representative)
3. I attest that the Nongovernmental Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes (2024), as may be amended or revised.

Under penalties of perjury, I declare that I have read the foregoing Anti-Human Trafficking Affidavit and that the facts stated in it are true.

Signature of Officer or Representative: _____

Office Address: 880 SW 145th Avenue, Suite 106, Pembroke Pines, FL 33027

Email Address: cesinfo@cesconsult.com

Main Phone Number: 954.613.4353 FEIN No.: 65-0792884

STATE OF Florida
COUNTY OF Broward

Sworn to and subscribed before me by means of ❑ physical presence or ☒ online notarization, this 23rd day of June, 2025, by Juan Alfonso, AIA, NCARB, RID, CCM (Print name of corporate officer/representative)

JANEAN INES MALDONADO
Notary Public - State of Florida
Commission # HH 258219
My Comm. Expires Apr 27, 2026

(NOTARY SEAL)

Janean Maldonado
(Signature of Notary Public – State of Florida)

Janean Ines Maldonado
Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known [X] OR Produced Identification [ ]

Type of Identification Produced N/A

WE BUILD COMMUNITY

CITY OF FORT LAUDERDALE

SWORN STATEMENT PURSUANT TO SECTION 287.087, FLORIDA STATUTES, ON PREFERENCE TO BUSINESS WITH DRUG-FREE WORK PLACE PROGRAMS

I certify that I have established a Drug Free Work Place program and have complied with the following

a. Published and distributed to each employee 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 prohibitions.

b. Required all new employees to undergo laboratory testing as a condition of employment and will require all employees, as a condition of their continued employment, to undergo laboratory testing to detect illegal drug or alcohol use according to Florida Statutes 440.101 and 440.102.

c. Ensured that applicants with a confirmed positive drug or alcohol screening test result are not considered for employment.

d. Have tested employees when reasonably suspected of illegal drug or alcohol use.

e. Ensured that any employee refusing to take a drug or alcohol screening test in violation of the Drug Free Work Place Policy is subject to dismissal for failure to abide by the provisions of the Policy.

f. Informed employees about the dangers of drug abuse in the workplace, the business' policy of maintain 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.

g. In the statement specified in subparagraph a, notified the employees that, as a condition of their employment, the employee will abide by the terms of the statement and will notify their 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 of any state, for a violation occurring in the workplace no later than 5 days after such conviction.

h. Have required all employees to sign a copy of this statement of compliance acknowledging their understanding and agreeing to abide with the requirements of the Drug Work Place Policy.

i. Will 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.

j. Am making a good faith effort to continue to maintain a Drug Free Work Place through implementation of this document.

BY: _____ DATE: June 23, 2025

NAME (Printed) Juan Alfonso, AIA, NCARB, RID, CCM TITLE: President & COO

COMPANY NAME: CES Consultants, Inc.

Affix Company Seal

Appendix: Additional Relevant Experience

DR. ARMANDO BADIA SENIOR CENTER RENOVATION & EXPANSION AT FLAGAMI PARK

LOCATION
Miami, FL

OWNER
City of Miami

COMPLETION
Ongoing

CES is providing project management oversight and coordination.

Project management oversight and coordination for this ±$10.2M City Bond and State of Florida Department of Elder Affairs-funded project that includes planning, design and construction services for the renovation and 8,367-SF expansion of the Badia Senior Center at Flagami Park. The project introduces a comprehensive suite of enhancements designed to enrich the lives of seniors by promoting social interaction, lifelong learning, health, and accessibility. Improvements include a brand-new multi-purpose community room, a modern dining hall with a warming kitchen and covered outdoor seating area, complete renovation of an existing classroom and the addition of two new classrooms, a computer lab, fully equipped gym, new ADA-compliant restroom facilities, and modernization of the reception area and office spaces to enhance operational efficiency and provide a more welcoming experience for both staff and visitors.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

ELIZABETH VIRRICK PARK NEW AQUATIC FACILITY

LOCATION
Miami, FL

OWNER
City of Miami

COMPLETION
Ongoing

CES is providing project management oversight and coordination.

Project management oversight and coordination for this $11.3M new multi-purpose facility to include a 25-yard lap pool with six swimming lanes, a shallow pool, and a zero-entry pool with play structure and slide. The project will also provide for a new pool bathhouse that includes bathrooms and storage; a new pool pump building; new lifeguard office/first aid building; new trash enclosure for improved garbage pick-up; and right-of-way improvements that include the installation of a new water line on Hibiscus Street, to connect to existing water lines on Day Avenue and Percival Avenue and new sanitary sewer connection on Oak Avenue.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

I-395 OPEN SPACE & MOBILITY CONNECTOR; I-395 UNDERDECK/MIAMI-OVERTOWN HERITAGE TRAIL DEVEL.

LOCATION
Miami, FL

OWNER
City of Miami

COMPLETION
Ongoing

This project includes a new 33-acre public open space.

Part of the I-395 Signature Bridge Design Project, the $80M+ I-395 Underdeck (aka Graham Greenway) is a new 33-acre public open space, located beneath Interstate Highway 395, extending from NW 3rd Avenue and Gibson Park in the west to Biscayne Boulevard, Museum Park, and Biscayne Bay in the east. Situated just north of Downtown Miami, the project is within or adjacent to multiple established and emerging neighborhoods: Overtown, Omni, Downtown, and the Innovation District. The Underdeck is slated to transform a formerly infrastructural corridor near Miami's urban core into a significant multi-functional, landscaped and actively programmed destination for residents, workers, and visitors. The entire I-395 project will be designed and built by the Florida Department of Transportation with input and collaboration from the City of Miami. The City will operate and maintain the open space and related activities and therefore has provided an important voice in every stage of the project.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.

DOUGLAS PARK COMMUNITY CENTER

LOCATION
Miami, FL

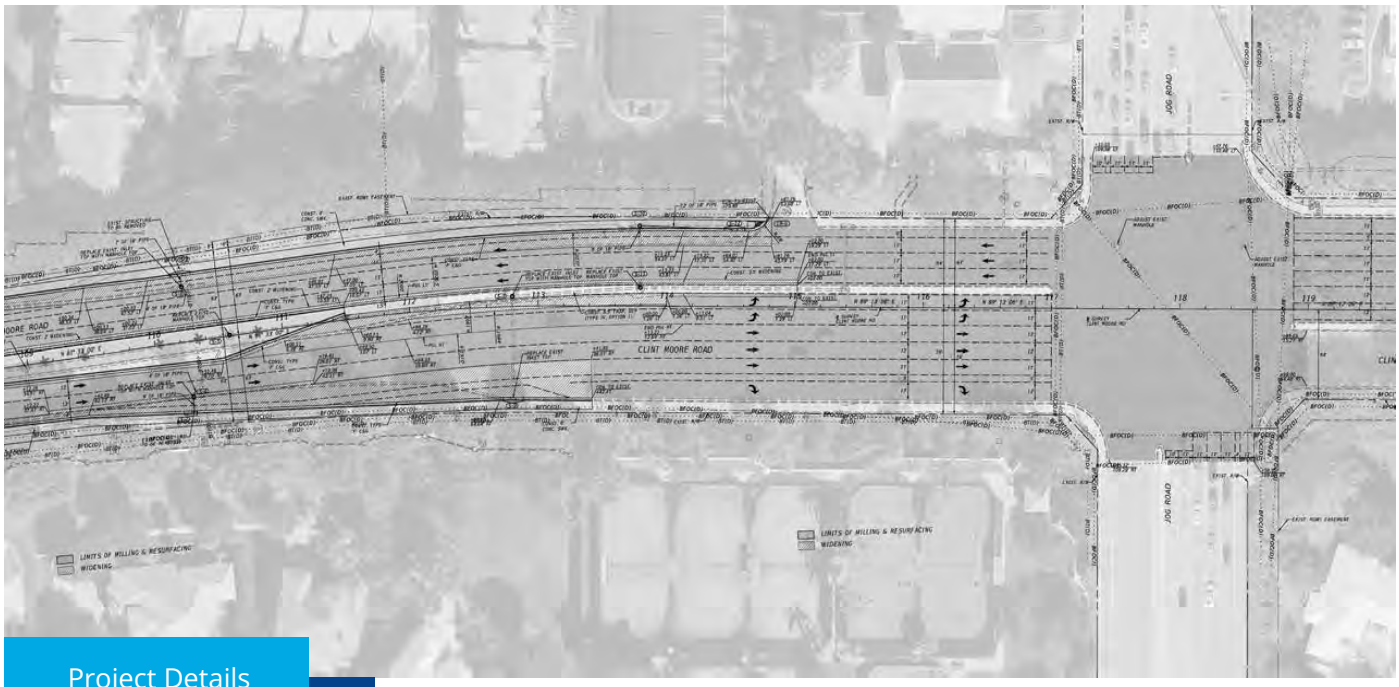
OWNER
City of Miami

COMPLETION
Ongoing

CES is providing project management oversight and coordination.

Project management oversight and coordination for this ±$5M City Bond-funded project for the Douglas Park Community Center, a new single-story ±6,000-SF community center building and exterior site improvements.

This project is part of a contract in which CES staff, acting as Program/Project Managers and Consultants, are assisting with the undertaking of various Miami Forever Bond-funded projects and project-related grants like the Reconnecting Communities Grant, FEMA Grants and CDBG Grants, as well as other capital projects, as assigned by the City of Miami's Office of Capital Improvements.



Project Details

Client
Palm Beach County
2300 N. Jog Road
West Palm Beach, FL
33411

Contact
Maroun Azzi, PE
P: 561.684.4150

Completion
2019-2023

Cost
$100k+ (TWO Based)

Services | Relevancy
General Municipal Services (Civil Engineering), Drainage Design, Inspections, Permitting, Planning, Construction Cost Estimates

PBC Intersection Improvements Annual Services Contract, Palm Beach County, FL

Scope consists of providing engineering services for intersection improvements, including but not limited to traffic signals, drainage improvements, turn lanes, bike lanes, sidewalks. CED's design group has provided the safest and most cost-effective solutions for PBC's infrastructure needs. CED's has 13 Task Work Orders (TWO) issued to date, with two intersections nearing construction completion, two others awaiting contractor bids, two more pending the Final Submittal, and all other assignments are well underway in the design submittal process. Sample projects include:

- **Clint Moore Road and Jog Road.** Project reconfigures existing lane assignments on the east to add a WB through lane, widens existing pavement to provide additional WB through lane on the west side of the intersection, and extends the EB to NB left lane. The project also consists of milling and resurfacing, signing and pavement markings and drainage improvements.
- **Hypoluxo Road & Jog Road.** The project reconfigures existing lane assignments, extends the third WB through lane across the intersection, and replaces the existing span wire mounted traffic signal with a new mast arm mounted system.
  - The project also consists of milling and resurfacing, signing and pavement markings, drainage improvements and utility coordination.
- **Palmetto Park Road and Lyons Road.** This project consists of adding a third through lane in both the NB and SB direction through the intersection, extending left turn lanes and signalization upgrades. The conceptual design includes preparing preliminary roll plot plans, typical sections and preliminary cost estimate.
- **Linton Blvd and Jog Road.** This project consists of extending the WB dual left turn lanes by pavement widening and milling and resurfacing. The work also includes signing and pavement markings and signal loop replacement.

Colliers Engineering & Design

Project Details

Client
Township of Lopatcong
232 South Third Street
Phillipsburg, NJ 08865

Contact
Margaret B. Dilts, RMC
Township Clerk/
Administrator
P: 908.859.3355, ext 223
E: diltsb@lopatcongtwp.com

Completed
Ongoing

Services | Relevancy
Survey, Planning, Civil/ Site, Geotechnical Engineering, Architecture, Structures, MEP, Landscape Architecture

Lopatcong Township Park Redevelopment, Township of Lopatcong, Warren County, NJ

Prepared boundary and topographic survey for park properties. Prepared concept plans for the redevelopment of Lopatcong Park including the demolition and reconstruction of the municipal pool, the demolition and reconstruction of the pavilion and field house buildings, the construction of a concession stand with bathroom and cooking facilities, the construction of an open air pavilion, the construction of a pickleball court and playground, and the construction of various site improvements including parking facilities. Prepared construction plans and bid documents for the various facilities. Design work is anticipated to be completed in June 2025 and then project advertised for public bids in July 2025.

Colliers Engineering & Design

Garth Solutions
Thinking beyond the box

CITY OF OPA LOCKA
PARKS & RECREATION MASTER PLAN

The City of Opa-locka launched a 10-year Comprehensive Parks and Recreation Master Plan to shape the future of its park system, open spaces, recreation programs, and community facilities. The initiative aimed to improve access, equity, and quality of life for residents while guiding capital improvements and programming decisions. The planning process prioritized data analysis, interdepartmental coordination, and meaningful public engagement. Garth Solutions, Inc. (GSI) was selected to lead community outreach, stakeholder engagement, and strategic communications.

APPROACH & IMPLEMENTATION

COMMUNITY ENGAGEMENT & PUBLIC OUTREACH

GSI led a multi-channel outreach strategy designed to elevate resident voices and increase participation. This included door-to-door canvassing, public meetings, community events, and stakeholder interviews—along with virtual engagement options to expand access and convenience.

DATA COLLECTION & INSIGHT DEVELOPMENT

To inform decision-making, GSI helped implement a statistically valid community needs assessment survey. The team also conducted a demographic analysis, assessed existing park facilities, and compiled data on current program usage to identify gaps and opportunities.

STRATEGIC COMMUNICATIONS & REPORTING

GSI developed branded materials, technical reports, and presentation decks to communicate findings clearly and effectively. These deliverables supported community workshops and leadership briefings and ensured alignment across city departments.

COLLABORATION & PLANNING SUPPORT

Throughout the project, GSI coordinated closely with the City's Parks and Recreation Department to facilitate progress meetings, shape priorities, and translate community input into practical, phased recommendations.

APPLIED EXPERTISE

PUBLIC OUTREACH SERVICES

- Community Engagement
- Stakeholder Outreach
- Door-to-Door Canvassing
- Focus Groups and Interviews

DATA COLLECTION & ANALYSIS

- Community Needs Assessment Survey
- Demographic Trend Analysis
- Facility Inventory and Assessment

STRATEGIC COMMUNICATIONS

- Content Creation & Copywriting
- Technical Reports and Recommendations
- Presentation Development
- Collateral Materials Design

Parks&Recreation
CITY OF OPA-LOCKA

KEY RESULTS

- Delivered a comprehensive plan that reflected community priorities and **set clear goals for the future.**
- **Enhanced community trust and engagement** through transparent and inclusive processes.
- Provided the City with a **roadmap for sustainable development** of its parks and recreation system.

Garth Solutions
Thinking beyond the box

FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT MASTER PLAN

FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT
BROWARD COUNTY, FLORIDA

To accommodate increasing traffic and ensure long-term sustainability, Fort Lauderdale-Hollywood International Airport (FLL) embarked on an extensive expansion initiative, including a new runway, upgrades to Terminal 4, and comprehensive infrastructure improvements. In conjunction, the Broward County Aviation Department (BCAD) initiated the Master Plan Study and Part 150 Noise Compatibility Study to guide future developments and address concerns.

APPROACH & IMPLEMENTATION

COMMUNITY ENGAGEMENT

GSI hosted five public meetings in five locations across Broward County over one week to maximize community participation. The team facilitated various public workshops, hearings, and technical advisory committee meetings to gather input and share findings, ensuring diverse stakeholders could contribute to the airport's development plans.

INCLUSIVE COMMUNICATION

GSI delivered multilingual materials and provided on-site translation services to ensure accessibility for all stakeholders. The team produced various meeting announcements, collateral materials, and technical presentations designed to communicate complex information in an accessible manner to diverse audiences.

STRATEGIC PLANNING AND COORDINATION

GSI collaborated closely with technical teams to support the Master Plan Study's public meetings and integrate community feedback into recommendations. The team managed all event-day logistics, including staffing and third-party vendors such as translators and court reporters, ensuring smooth execution of all public engagement activities.

APPLIED EXPERTISE

PUBLIC OUTREACH SERVICES

- Community Engagement
- Stakeholder Outreach
- Public Meeting Logistics
- Event Staffing
- Multilingual Translation

MARKETING & CREATIVE

- Messaging & Materials
- Collateral Materials
- Announcements & Invitations

MULTIMEDIA PRODUCTION

- Graphic Design
- Photography & Videography
- Presentation Development

PROJECT MANAGEMENT

- Documentation & Reporting
- Technical Team Coordination
- Vendor Management

KEY RESULTS

- Successfully engaged stakeholders through **well-executed public meetings and outreach initiatives.**
- Enhanced community trust and participation by **ensuring transparent and accessible materials.**
- Supported BCAD in **aligning airport plans with federal DBE program guidelines** and expectations.

Morningside and Shorecrest Seawalls and Living Shorelines

Mission

To plan how to raise or replace six seawalls in the area.

Client

A.D.A. Engineering, Inc.

Location

Miami, FL

Date

2024-Ongoing

The challenge

The City of Miami (City) called on GHD to plan how to raise or replace six seawalls in the area. The seawalls are 750 linear feet and have top of cap elevations of ~3.5 feet NAVD-88. Our team was also tasked with designing new paths along the public right-of-way (ROW).

One challenge that we face is the compressed timeline required for the project. The work on the six seawall locations is funded through multiple grants and bonds that require construction to begin by the end of 2024. We also need to ensure that our design helps promote biodiversity.

Our response

We are conducting above and below-water inspections using the ASCE Manual of Practice 130 (waterfront facilities inspection and assessment) rating system.

→ **The Power of Commitment**

The system will assist us in systematically documenting inspection findings and recording the relevant attributes of any defects. We'll also use our findings to estimate information like the remaining design life of the seawalls.

The damage observations at each region will provide critical inputs into a basic structural analysis (BSA) that will be used to determine whether the seawall is capable of being raised or requires replacement. Should the BSA determine the seawall is capable of being raised, GHD will perform ground-penetrating radar (GPR) and material testing to locate any conflicts tiebacks the material properties of the existing seawall panel and cap.

The impact

GHD's coastal and structural engineers are working to provide Miami two design options. We will also give them an opinion of probable construction cost for each of the 6 seawalls. The opinion will advise Miami about whether to raise or replace the existing seawalls. Our services will also provide living shoreline enhancements, including shoreline stabilization using native plantings and mangroves.

Point of Contact

Albert Argudin Jr, CGC

Vice President

T: 786.382.9046

E: aargudinjr@adaeng.net

Matheson Hammock Park Seawall Replacement and Repairs

Mission
Replacement of seawall on the upland side of a marina to mitigate sea level rise.

Client
Miami-Dade County Parks, Recreation & Open Spaces Department (PROS)

Location
Miami, Florida

Date
2021 - Ongoing

The challenge

The 630-acre Matheson Hammock Park includes a 243-slip marina, restaurant, large wading lagoon and beach, mangrove trails, and numerous historic buildings and structures constructed of Miami's politic limestone.

This project includes the replacement of approximately 700 linear feet of seawall on the upland side of a marina to mitigate sea level rise and sunny day flooding events that limit public enjoyment of the iconic Miami, Florida park. The seawall replacement project is the first component of a broader plan to mitigate frequent flooding and enhance the resiliency of the Park and its critical and historic infrastructure, which has been open to the public since 1930.

Critical design and construction challenges include providing a solution that minimizes vibration and impacts to a historic building, maintaining power and water access to the marina facilities during construction,

planning accommodations for future park projects, and developing alternatives that provide 100-yr storm protection per the FEMA Hazard Mitigation Grant funding guidelines.

Our response

GHD will perform a Hydrology and Hydraulics Study to determine an optimum wall alignment and cap elevation that provides the appropriate level of protection. Structural analysis considers all challenge components to provide for a resilient and adaptable wall design. Our Team reviewed several alignments and wall alternatives to determine the best solution for the client and meet the global goal of the project.

Key to project success is the expandable wall elevation. It is assumed that the wall design life will outlive current sea level rise projections. Therefore, to allow for an interim wall height, the Team designed for a full future height wall loading that may expand on immediate construction, at a later date. This allows for adaption in the future for other park considerations.

The impact

The selected design will protect the Park's infrastructure from a 100-yr storm event in order to meet the guidelines of FEMA's Hazard Mitigation Grant Funding Program.

Point of Contact

Duane Kopp, PE

Construction Manager 2

T: 305.755.7954

E: duane.kopp@miamidade.gov

→ **ghd.com**

Little River Mini Pocket Park Redesign

Mission

To build a new seawall in Little River.

Client

City of Miami, Office of Capital Improvements (OCI)

Location

Miami, FL

Date

2023-Ongoing

The challenge

The City called on GHD to review another consultant's seawall design. The design needed to extend the seawall to provide flood protection across the park's entire shoreline. The design also needs drainage improvements to accommodate a future pump station and upsized outfalls. Our team needed to develop construction plans and specifications for a new seawall, kayak launch, and mangrove shoreline along the Little River.

The project site contains historic mangroves and weak subsurface soil conditions 30 feet below the existing grade. It also includes a highly organic and compressible peat layer within the upper 10 feet.

Our response

GHD mobilized our in-house drill rig to confirm that the weak subsurface conditions extended along the entire proposed seawall alignment. We re-designed the seawall to provide greater overall stability and constructability. Our efforts resulted in a smaller overwater footprint to decrease the time required to obtain regulatory authorizations.

GHD made design changes that included changing the seawall type from a concrete pile and panel to a steel sheet pile wall. This design change minimized the potential for sediment transport into the Little River Canal by extending the pile tip elevations to below the weak subsurface soil conditions, which does not require excavation of these soils or removal of the existing wall during construction. Furthermore, the steel sheet pile could be installed within 18 inches of the wet face of the existing wall to facilitate a more timely regulatory review.

The Impact

GHD is working alongside the City and the regulatory agencies (such as DERM) to develop a design change that meets the City's waterfront design guidelines, provides the public with access to a kayak launch, and retains the historic mangroves and natural living shoreline.

Key Personnel

Project Manager: Jesse Davis

Project Director: Dean Goodin

Point of Contact

Marisol Martinez Salazar

E: marmartinez@miamigov.com

T: (305)416-1219

Legion Park

Mission

To construct the Legion Park Seawall and Non-Motorized Vessel Ramp.

Client

City of Miami

Location

Miami, Florida

Date

2022 - Ongoing

The challenge

The City of Miami initially hired a Contractor to construct the Legion Park Seawall and Non-Motorized Vessel Ramp. The Contractor encountered unforeseen construction debris and installed concrete piles utilizing a 'trench box' method that excavated/removed the debris and limestone rock to a depth of 4 to 5 feet above the pile tip elevation.

Our response

The City authorized GHD to perform a structural evaluation of the stability of the piles in December 2022 and to perform a regulatory and agency review to determine what steps would be necessary to secure the site while the City considered overall Project direction.

A drone aerial and 4D topographic survey was completed to aide in the stabilization plan for the previously excavated area. Design of the temporary structure included stable stone sizing and underlayment (foundation). Rock tonnage and backfill quantity estimates were calculated based on the design approved by the City. GHD corresponded with regulatory agencies to obtain authorization for the temporary design. The City hired GHD to provide construction oversight while the Contractor stabilized the site. During the temporary stabilization design and construction phases, GHD provided geotechnical consultation services and construction materials testing services for onsite and proposed backfill materials.

In addition, GHD responded to an observed film and apparent sheen on the surface water located within the upland stabilization area and collected surface water samples. The samples were analyzed for an analytical suite of petroleum-related constituents and the results identified low levels of several PAH compounds and TRPH. Although detected, the concentrations did not exceed applicable Class III surface water quality criteria per Chapter 62-302.530, FAC. The results suggested that any released petroleum was de minimis in nature.

The impact

GHD worked alongside the City, the regulatory agencies (DERM, FDEP, and USACE) and the contractor to develop an expedited stabilization plan. The plan seeks to protect existing mangroves within the project area, stabilize the eroding shoreline, provide habitat and promote biodiversity within Biscayne Bay The regulatory agencies approved our plan to stabilize the site in March of 2023.

GHD provided the following in-house services on this project:

- Coastal, structural and geotechnical engineering
- Geotechnical sample collection & characterization at GHD laboratory
- Environmental sample collection and analyses
- Construction phase services

Point of Contact

Keith Ng

Project Manager

T: 305.619.2368

E: keithng@miamigov.com

→ **ghd.com**

South Bayshore Lane Pump Station

Mission

To perform a Ground Penetrating Radar (GPR) survey.

Client

ADA Engineering

Location

Miami, FL

Date

2021-2022

Value

Approximated value:
$ 59,000

The challenge

The City of Miami (City) is increasing neighborhood resiliency to flooding from increased rainfall intensity and sea level rise. To lessen the flooding, the City is installing a pump station that will require an the upsizing of a drainage outfall through an existing seawall and into Biscayne Bay. The City recruited GHD to design the expansion.

Our team needed to plan how to best increase the capacity of the drainage outfall to accommodate a pump station. The record drawing obtained from the City did not match field conditions. Thus, GHD performed a GPR survey to determine whether any upland conflicts existed (e.g. tie-backs) and the approximate location of reinforcing, thickness of wall, and concrete cover.

Our response

GHD needed to ensure we did extensive testing to ensure the efficacy of our design. We completed Ground Penetrating Radar (GPR) both landside to determine location of any existing tiebacks and along the seaward face of the wall to determine size, spacing and location of existing rebar.

GHD also performed subsurface exploration and material testing. Our team used the information we gathered to recommend construction materials and to start designing a new pump. After an assessment of the seawall, our team submitted a completed design to the City. We also provided design coordination during construction.

The impact

The City used our recommendations and designs to increase the capacity of an existing drainage outfall. The neighborhood near the outfall now experiences less flooding.

Key Personnel

Project Manager: Jesse Davis

Project Director: Dean Goodin

Marine Structural Engineer: Melissa Burns

Geotechnical Engineer: Steven Janosik

Point of Contact

Albert Argudin Jr, CGC, Vice President

T: 786.382.9046

E: aargudinjr@adaeng.net

Miami Beach Storm Protection: Planning, Modeling, Permitting and Design Services

Mission

To identify and develop cost-effective mitigation and adaptation strategies to prepare for sea-level rise and coastal storms.

Client

Miami-Dade County RER-DERM

Location

Miami Beach, FL

Date

2020 – Ongoing

The challenge

Miami-Dade County (County) needs to ensure that its beaches remain known worldwide as a prime tourist destination. The beaches are important to the County's economy. However, the State of Florida has designated most of these beaches (17 miles) as critically eroded. Since the 1970s, the beaches have required over 20 million cubic yards of sand placement. A few persistent erosional hot spots have accounted for most of the required nourishment activity.

As part of the County's sea-level rise strategy, GHD is assisting the County in identifying and developing cost-effective mitigation and adaptation strategies to prepare for sea-level rise and coastal storms.

The County's beaches need to provide resiliency and storm protection for billions of dollars in beachfront infrastructure. It's also important that GHD's strategies consider the animals that live on the beach. The beaches need to provide a habitat for protected animal species, such as sea turtles.

Our response

GHD's work on the project has included:

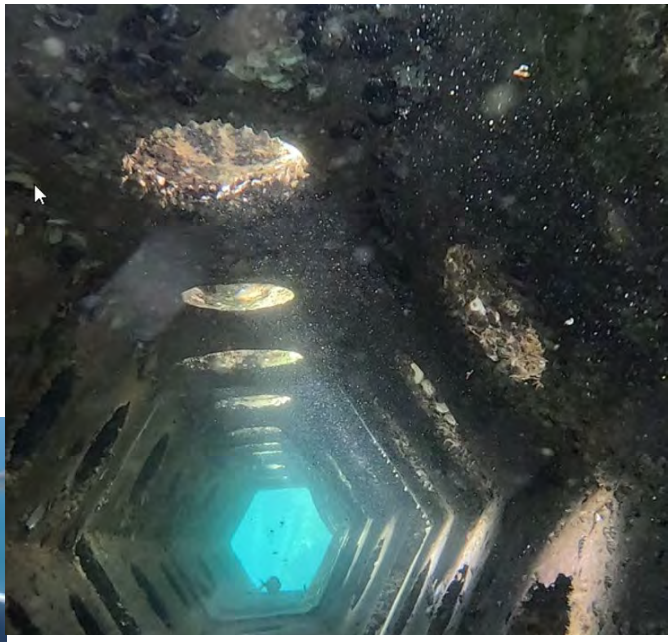
- **Extensive coastal modeling**: Our team developed a County-wide coastal modeling tool that includes a coupled hydrodynamic, wave, and shoreline morphology model. This tool can identify and evaluate cost-effective mitigation and adaptation projects. The coastal modeling tool will also be used to evaluate the combined effects that a proposed Bal Harbour Jetty extension and groin field would have on the local beach shorelines.
- **Permitting**: We obtained permits to streamline truck haul beach nourishment along 13 miles of County beaches. The consolidated permit allows the County to manage their beach shorelines more efficiently.
- **Stakeholder engagement**: Stakeholders we're working with include regulatory agencies (USACE [United States Army Corp of Engineers], DERM [Division of Environmental Resources Management], and FDEP [Florida Department of Environmental Protection]) and the University of Miami (UM), who we're holding stakeholder engagement meetings. Our stakeholder engagement meetings are about the reef breakwater design we're creating together.
- **Reef breakwater design**: The reef breakwater is designed o mitigate an erosion hotspot immediately south of 32nd Street. Our selected alternative included four nearshore segmented breakwaters with varying wave attenuation coefficients and at varying distances offshore. GHD's coastal, structural, and geotechnical engineers are evaluating using two different material types: quarried limestone boulders and SEAHIVE units developed by UM. UM's Sustain Laboratory will use the physical model tests to develop the SEAHIVE unit sections.
- **Envision Sustainability Assessment**: Our assessment will determine the likely accreditation level of the project 'as is.' GHD will also identify credits that the project can earn through additional studies and effort, and the likely accreditation level if included. GHD is one of a handful of firms that has been an organizational member of Envision since its creation by the Institute for Sustainable Infrastructure (ISI) in 2013.
- **Evaluating the combined effects of independently proposed federal and state projects on local beaches**: GHD utilized the coastal modeling tool to evaluate the combined effects of a proposed Bal Harbour Jetty extension (FDEP Inlet Management Plan) and groin field (USACE Coastal Storm Risk Management Plan) would have on the local beach shorelines.

The impact

GHD's County-wide coastal modeling tool identified and evaluated cost-effective mitigation and adaptation strategies to maintain resiliency and storm protection along Miami Beach. We have also streamlined permitting for truck haul beach nourishment events and developed an innovative reef breakwater design incorporating living shoreline solutions. Our team's ongoing work will better protect the beach.

Point of Contact

Alberto Pisani, PE, ENV SP
Senior Professional Engineer, Division of Water Management
T: 786.493.1439
E: alberto.pisani@miamidade.gov



→ **ghd.com**

Living Seawall Tile Design - SIMS + Reef Design Lab

Mission

To help seawalls support biodiversity.

Client

Sydney Institute of Marine Science (SIMS)

Location

Sydney, Australia

Date

2018 - 2024

The challenge

SIMS mission is to help seawalls support biodiversity as much as they protect our society. The goal of the project was to use the seawalls in Sydney to increase the ecological value of artificial structures within the marine environment and promote biodiversity through the creation of living seawalls. Typical seawalls inhibit biodiversity. Special tiles installed turn typical seawalls into living seawalls, by mimicking naturally occurring microhabitats and promote a range of marine species such as oysters, seaweed, mussels, barnacles, chitons and more. The living seawalls also attract filter-feeding organisms that absorb and filter out pollutants from the water. As part of a pro bono effort, GHD partnered with SIMS and the Reef Design Lab to assess the living seawalls as part of SIMS' Living Seawalls Initiative (www.ims.org.au/research/flagship-projects/living-seawalls). Our team took on assessing the strength and structural integrity of the concrete tile designs and their in-situ fixings.

GHD needed to blend ecological concepts and creative engineering to develop a functional affordable, adaptable, and scalable method to enhance existing seawalls. We needed to assess the design of a particular panel configuration and advise on modifications so that they would be suitable for operational use over a defined design life in a harsh marine environment.

Our response

We got to work analyzing the living seawalls. Our analysis included determining typical meteorological wave and passing vessels wave conditions, deriving impacts loads from these waves, wake formulating destructive testing of sample tiles to establish engineering criteria, interpreting destructive testing results, numerical modelling of typical tiles, and studying what materials will support the walls' longevity. GHD designed an anchor arrangement suitable to support the installation of the living seawall tiles for a 50-year design life. We included fatigue and durability considerations. The anchor design also considered the anchor locations and safety of the installers, operators, other personnel, and nearby swimmers.

The impact

Our efforts helped to increase the ecological value and biodiversity in Sawmillers Reserve, Milson's Point, Clontarf, and Fairlight where the living seawall tiles we helped with were installed. After the success of earlier projects, GHD subsequently assisted SIMS and Northern Beaches Council with a renewal concept design to install living seawall tiles on a proposed concrete stormwater culvert adjacent to the Fairy Bower Sea Pool at Manly, NSW, Australia.

Point of Contact

Kate Parsons

Development Manager

T: +61 427 697 868

E: kate.parsons@sims.org.au

Mid-Town Seawall Replacement Design, Permitting and CM

Palm Beach, FL

Mission

Provide design, permitting and bid phase services to replace an aging seawall that provides protection to public and private infrastructure at Mid-Town beach.

Client

Town of Palm Beach
360 South County Road
Palm Beach, FL 33480

Date

2020 – Ongoing

Value

Professional Services Fee:
$758,447

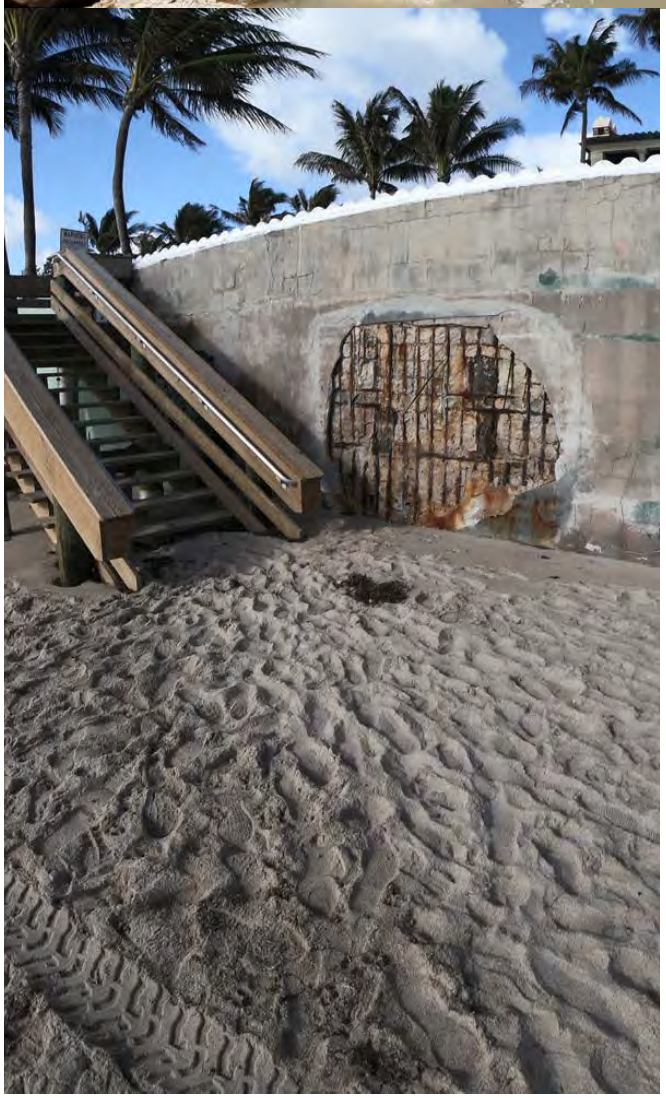
The challenge

The Town of Palm Beach owns and maintains an approximately 2,715 linear foot vertical seawall providing protection to the upland property and infrastructure, inclusive of North Ocean Boulevard, which serves as the primary hurricane evacuation route for this segment of Palm Beach Island. The existing seawall, constructed in the 1920s, is reaching the limits of its design life and requires replacement.

Our response

GHD coastal engineering staff performed a coastal engineering assessment of the wall to determine an appropriate top of wall/cap elevation for resiliency as well as the scour potential at the base of the wall. Another Town consultant prepared a comprehensive vulnerability assessment for the Town and the results of that study were integrated into this coastal engineering assessment. The GHD Team collected site-specific topographic survey data and the acquisition of a series of Standard Penetration Test borings to characterize the subsurface soil conditions. A Ground Penetrating Radar investigation along the landward side of the seawall was also conducted to confirm the location of subsurface tie rods and anchors. A combination of anchored and, in special consideration areas, cantilevered wall alignments have been designed.

→ The Power of Commitment



A number of special design considerations have been integrated into the design. These include: Return walls at the ends of the publicly-owned property that comprises the Project area, in spite of the seawall continuing to both the north and the south of the existing structure, integration of existing groins that tie into the base of the existing wall, a lifeguard station (bunker) and restroom facility, the Worth Avenue Clock Tower, an underground tunnel connecting an upland residential property to the beach, an emergency sanitary sewage outfall vault and pipeline, ramp for emergency and construction access, and pedestrian access stairs and an ADA ramp connecting Ocean Boulevard to the beach.

The impact

A permit application was submitted to the Florida Department of Environmental Protection (FDEP) in summer 2022, and the permit was obtained in December 2022. The GHD Team finalized the design in May 2023, with Final Plans and Specifications and an Engineer's Opinion of Probable Construction Cost provided to the Town to support advertisement for bid. GHD is currently assisting the Town with bid phase services. Construction is anticipated to commence in November 2023.

Point of Contact
Jason Debrincat, PE
Assistant Director of Public Works
T: 561.838.5440 x 7027
E: jdebrincat@townofpalmbeach.com

UF Seawall Condition Assessment and Living Shoreline Demonstration

Mission

To assess the condition of a nearby existing seawall located on the Halifax River.

Client

Greenacres Ponce Inlet, LLC/The Randolph Company

Location

Ponce Inlet, FL

Date

2018 - Ongoing

The challenge

The Randolph Company (Randolph) is a wealth management company who oversees the endowment for the University of Florida (UF). UF was considering transforming their 3.2-acre parcel of Greenacres Ponce Inlet (Ponce Inlet) into a coastal science center. On behalf of UF, Randolph hired GHD to assess the condition of a nearby existing seawall located on the Halifax River. UF's parcel of land on the inlet contains ~370 linear feet of shoreline facing the river. If the seawall needed repairs, it would make UF's project more expensive. Randolph wanted to make informed decision about whether to advise UF to develop the coastal science center on the inlet based on GHD's findings.

Our team discovered challenges with the seawall after taking our initial measurements. We took measurements based on visual determinations using a 6-point rating scale. The ratings revealed the existing, aged wall is in serious to critical condition. Several sections of the wall had already rotated or collapsed due to getting inundated by the uplands at high tide.

Our team also noted spalling, cracking, and loss of soil landward of some of the keyhole joints.

Our recommendations also needed to include protection for an existing structure. A historic two-story building resides on the property ~75 feet north of the wall; this structure had already been partially restored at the time of the field assessment in October 2018.

Our response

Our team got to work analyzing the seawall. We determined that the existing seawall is cast-in-place concrete with key and keyhole joints spaced irregularly along the seawall. The seawall appeared to have been constructed in two phases, with the most recent occurring on or about 1967. The challenges that the seawall faced are noted above.

Because UF wanted to develop the land into a coastal science center, GHD provided recommendations for converting one of the sections of the seawall that had already failed (due to a rotational failure of the panels) to a living shoreline, with an articulated concrete block mattress (ACBM) providing slope protection to the embayment. We also recommended adding rock sills and planting native vegetation (including mangroves) to the wall replacement. The additions would provide ecological benefits to the land that the science center planned on studying. The vegetation will also help the coast be more resilient.

GHD's team also provided recommendations for the repair and replacement of the seawall. We submitted a report with what site data we recommend be acquired, as well as environmental and physical surveys, design, federal, state and local permitting, and bid document preparation needs. We also provided a preliminary opinion of probable construction cost.

Our plan and estimate considered the existing historical home. The ACBM will provide a backstop for any erosion that may occur due to an extreme storm event (i.e. major hurricane).

The impact

We performed our assessment and provided our recommendations within the requested time frame. GHD was able to perform the condition assessment within two weeks of getting the notice to proceed (NTP) and transmitted a report with recommendations and cost information less than one month after the NTP. Our recommendations will serve to inform whether UF proceeds with developing the inlet.

Point of Contact

Carter Randolph, PhD

Managing Director, The Randolph Company

T: 513.891.7144

E: carter@therandolphcompany.com

Historic Turtle Kraals and C Dock Assessment

Mission

To assess the C Dock within the Key West Bight Marina at the Historic Seaport.

Client

City of Key West

Location

Key West, FL

Date

2021 – Ongoing

The challenge

The City of Key West (City) recruited GHD to assess the C Dock within the Key West Bight Marina at the Historic Seaport. The assessment needed to be completed to determine what kind of repairs are needed.

C Dock is part of a popular waterfront that is traversed daily by tourists, marina boat owners, and other recreationists. In addition, the project site was added to the U.S. National Register of Historic Places (NRHP) in 1994 as part of the Thompson Fish House, Turtle Cannery, and Kraals. Our team had to be cognizant about how to not disrupt the area. Additionally, the record drawings of the original construction and subsequent modifications to this historic structure could not be found in City files.

Our response

GHD developed a project approach that combined a public records search and non-intrusive field investigations to develop insight into the history of C Dock (e.g., materials of construction, dimensional data, year constructed, major modifications/repairs, etc.) and to characterize the structure's current condition. GHD determined that the most recent repairs were conducted in the mid-1990's and assigned the structure an overall condition assessment rate of "severe to critical" based on the results of an underwater inspection conducted by the GHD Team. Following the American Society of Civil Engineers (ASCE) underwater inspection guidelines, GHD notified the City of the condition assessment rating.

We recommended implementing load restrictions and daily monitoring due to the numerous large voids observed and the potential lack of bearing capacity support beneath the pedestrian walkway and northern seawall. GHD immediately performed a ground penetrating radar (GPR) survey the day before GPR survey confirmed that voids were located directly below the concrete walkway along portions of the structure.

GHD expedited the engineering assessment and presented the City with the results, recommendations to perform temporary emergency repairs, and opinions of probable construction costs for two options. The City agreed to move forward with agency coordination of the emergency repair while long-term repairs were being designed and permitted.

The impact

The City elected to pursue a long-term repair option. GHD is currently assisting the City in developing a field investigation plan that includes benthic resource surveys, additional geotechnical data collection, opinions of probable construction cost for two long-term repair options, permitting and the development of a construction plan and bid package of the City's preferred option.

Point of Contact

Karen Olson

Deputy Director of Port & Marina Services

T: 305.809.3803

E: kolson@cityofkeywest-fl.gov

→ ghd.com

Port Everglades Bulkhead Replacement

Mission

To provide deep-water marine structural engineering, corrosion protection.

Client

TY Lin International

Location

Fort Lauderdale, FL

Date

2021 - 2031

The challenge

Broward County, Port Everglades Department is replacing over 9,000 linear feet of aging deep-water bulkheads as part of the Group 1 bulkhead replacement project. The Project consists of nine separate bulkheads located throughout the Port.

Our response

GHD was selected as a subconsultant on the TY Lin International Team that will provide deep-water marine structural engineering, corrosion protection, berthing and mooring analysis, civil and utility engineering, geotechnical investigations and foundation engineering, scour analysis and scour protection, coral and benthic habitat surveys, regulatory agency permitting construction cost estimating and project scheduling, as well as construction phase services over a period of seven to ten years. GHD is currently leading the contamination assessment design and field investigations, and supporting the environmental permitting, coral and benthic habitat surveys.

→ **The Power of Commitment**

The impact

This ongoing project will result in over 9,000 linear feet of aging deep-water bulkheads getting replaced.

Point of Contact

James Kanter, PE

Sector Manager

B 954.308.3374

E: james.kanter@tylin.com

West Trail Shoreline Stabilization

Mission

To create a concept and detailed design to protect the trail, as well as provide support during the project's construction.

Client

San Mateo County Harbor District

Location

El Granada, CA

Date

2013 - 2021

The challenge

San Mateo County Harbor District (San Mateo) needed to protect the West Trail **from** further erosion. The West Trail is located along the western edge of Pillar Point Harbor. The trail provides a pedestrian and emergency vehicle pathway to the Pillar Point outer harbor and Maverick's Beach, a world-renowned surf break. It is a popular public access area that is used on a daily basis by pedestrians, dog owners, surfers, and other recreationists. The West Trail has also been subject to erosion and emergency repairs since 1994 due to tidal and wave action from the Pacific Ocean and significant stormwater events.

San Mater selected GHD to create a concept and detailed design to protect the trail, as well as provide support during the project's construction. GHD needed to ensure our design met stakeholder expectations. Project stakeholders initially selected and approved a sculpted seawall solution be developed to a 100% design stage. However, in 2018, the stakeholders opted to move forward with an alternative presented earlier: a nature-based shoreline solution aimed at providing multiple ecological and community benefits. The goal was to increase the resilience of the West Trail to coastal erosion, extreme storms, and sea level rise.

→ **The Power of Commitment**

Our response

Our team's concept design phase included several preliminary modeling tasks. This included cross-shore sediment transport modeling using CSHORE that was checked against another software. We used LITPROF by DHI to assess the potential erosional impacts of storm events and typical long-term conditions at the project shoreline.

Our work in the detailed design phase involved multiple components. We conducted stakeholder engagement throughout our efforts. GHD's field data collection and site investigations included a marine and terrestrial survey, a bathymetric and topographic survey, wave data collection, and sediment grain size analysis. We also obtained all required permitting for the project. Our final design included a living shoreline plan as well as specifications, estimate, stormwater upgrades, and materials sourcing information. We also provided support throughout the project's construction.

The impact

The project was completed in 2021. It succeeded providing protection to the West Trail.

Point of Contact

John Moren

Director of Operations

T: 650.741.9163

E: jmoren@smharbor.com

Jacobs

TYNDALL AIR FORCE BASE

HURRICANE MICHAEL RECOVERY PROGRAM

Panama City Beach, Florida

Client
U.S. Air Force (via KBR)

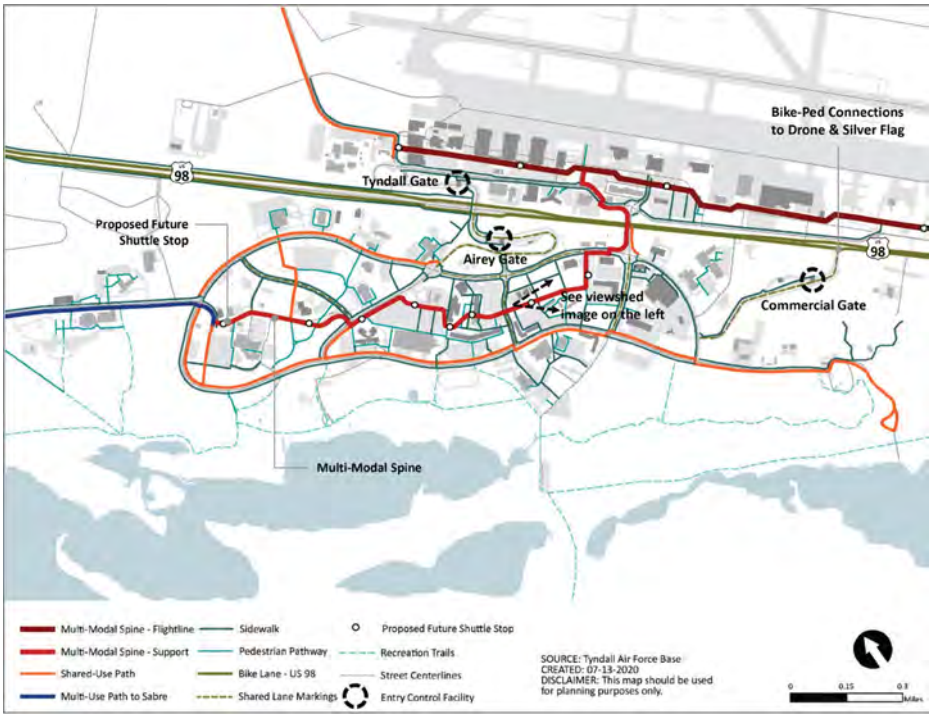
Dates
April 2019 - September 2020

Size
$5B Construction
$17M Professional Fees
300 Jacobs Team Members

Services
Landscape Master Plan /
Walkability and Bikeability Component Plan

Points of Contact
John Mogge
Hollie Schmidt
Matt Friesen

WALKABILITY AND BIKEABILITY COMPONENT PLAN



Integrated Mobility Framework – Support & Flightline Districts

Multi-Modal Spine

In October 2018 Hurricane Michael made landfall on the panhandle of Florida bringing widespread devastation to Tyndall AFB and the surrounding communities. Beginning in early 2019, Jacobs was engaged to support the $5 billion rebuild effort focused on design packages, implementation planning, design guidelines and site/landscape master planning. The vision guiding the rebuild includes transforming Tyndall AFB into an Installation of the Future. A core principle for the Air Force's vision is to encourage walking and biking as an alternative to automobile travel for short trips within the base.

As a part of the LANDSCAPE MASTER PLAN, the Jacobs team developed a walkability and bikeability component plan. The plan set forth goals and objectives, a mobility framework and a set of design criteria to guide future rebuild plans and designs. The component plan will help ensure the final rebuild yields a walkable, healthy Tyndall Community with less reliance on automobiles.

This vision of a walkable and healthy installation was realized through the current rebuild master plan and the DoD Military Construction (MILCON) packages that govern the reconstruction efforts. The main organizing element for the pedestrian circulation plan was the proposal of a central Multi-Modal Spine, stretching across the majority of the Support and Flightline Districts. This tree-lined spine, in combination with a coherent, connected bikeway and pedestrian network, provides safe efficient routes for the base population to travel between the dormitories, Community Common, recreational amenities, the base mission areas, and medical facilities. The result reduces the reliance on using POVs for common errands.

Specific direct objectives in support of the walkable and bikeable mobility goal included creating Bicycle/Pedestrian Advisory Committee to review installation development plans; maintaining a Bicycle and Pedestrian Plan; making information on local bicycling and walking facilities available to the base personnel; and developing an on-base bike-share program to promote alternative mobility on installation.

Jacobs

TYNDALL AIR FORCE BASE

HURRICANE MICHAEL RECOVERY PROGRAM

Panama City Beach, Florida

Client
U.S. Air Force (via KBR)

Dates
April 2019 - September 2020

Size
$5B Construction
$17M Professional Fees
300 Jacobs Team Members

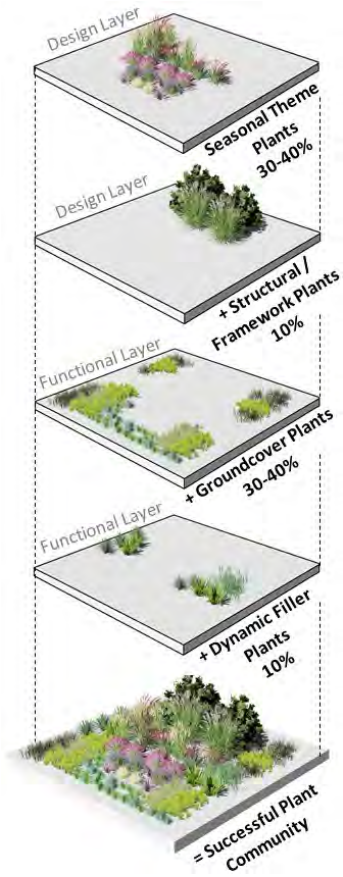
Services
Landscape Master Plan / Re-Vegetation Strategy

Points of Contact
John Mogge
Hollie Schmidt
Chad St. John

LANDSCAPING, REVEGETATION

Rendering of Manicured Zone

Typical Section of Manicured Zone



Planting Design Components

A strategic objective of the Tyndall Rebuild program was a to create a resilient landscape through revegetation with native plant material to optimize co-benefits, including water quality.

This plan focused on revegetating Tyndall AFB with native plant materials that will result in optimized stormwater treatment, continued regulatory compliance, decreased maintenance costs and increased wellness and walkability. Some of the strategies developed for the Tyndall AFB revegetation included the following:

- Applying Integrated Natural Resource Management Plan (INRMP) land management strategies consistently across all developed portions of the base
- Enforcing a restricted planting pallet that complied with INRMP that drives out invasive species
- Planting tree species and re-vegetate with plant materials that are resilient to high winds and will not interfere with buried infrastructure
- Revegetating all land areas south of Mississippi Road, which is a critical zone for mitigating storm events that include both heavy rainfall and high storm surge
- Improving stormwater management and treatment to recover more quickly after storm events

As part of the re-vegetation plan, landscape zones were proposed for the Tyndall AFB. Five zones were proposed: Manicured Zone, Maintained Zone, Airfield Zone, Managed Zone, and Coastal Zone. The goals for the landscape character focus on the specifics required for each landscape zone in terms of it design, location and typical plant species needed for that particular zone.

Jacobs

TYNDALL AIR FORCE BASE

HURRICANE MICHAEL RECOVERY PROGRAM

Panama City Beach, Florida

Client
U.S. Air Force (via KBR)

Dates
April 2019 - September 2020

Size
$5B Construction
$17M Professional Fees
300 Jacobs Team Members

Services
Landscape Master Plan /
Site Furnishings

Points of Contact
John Mogge
Hollie Schmidt
Chad St. John

SITE FURNISHINGS PLAN

A Site Furnishings Plan for Tyndall AFB expanded upon the requirements found in the base's Installation Facilities Standards (IFS). This was developed under the Landscape Master Plan so that all site furnishing elements would be consistent and match across the entire base. The development of this plan was a coordinated, consistent inventory of site furnishings positively contributes to the landscaped environment, overall images and character, and unique identity of Tyndall AFB. The selections presented

In the Site Furnishings Plan support the base's commitment to using materials that are durable, easy to maintain, visually unified, and compatible with the installation architecture. They were selected based on the following criteria:

- Capable of withstanding hurricane winds of 165 miles per hour
- Capable of withstanding flooding
- Ability to be exposed to coastal salt environment
- Tailored for heavy public use
- Low-maintenance
- Reasonable cost
- Reflective of Tyndall AFB architectural style and colors

The Site Furnishings Plan included guidance for benches, picnic tables and benches, bike racks, security bollards, outdoor grills, flagpoles, fences and gates, playground equipment, fitness equipment, and safety surfacing.

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Replace Obsolete Tuolumne Meadows WWTP, Yosemite National Park, CA | Contract No: 140P2021D0007, TO Nos: 140P2021F0126, 140P2022F0153.	2024 (est.)	2027 (est.)

23. PROJECT OWNER'S INFORMATION

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

Working closely with the NPS, we are the Designer of Record providing PD, SD, and SS for the new WWTP at this uniquely environmental and culturally sensitive site of Tuolumne Meadows in Yosemite National Park

Key Relevance	
✓	Replace/new utility systems, such as wastewater, electrical, water and water treatment, heating/cooling, telecom, wells, and distribution systems
✓	Rehabilitate/renovate/construct new buildings
✓	Rehabilitate/renovate landscapes

PROJECT OVERVIEW

The NPS engaged Jacobs on several different projects at Yosemite National Park, requiring our A-E service expertise in WWTPs. The Tuolumne Meadows WWTP project is to replace the aging and obsolete WWTP for the Tuolumne Meadows area with a new, upgraded WWTP, replace the 90-year-old plant effluent pipeline that crosses Tuolumne Meadows and the Tuolumne River, and replace/demolish the existing effluent storage ponds. The project is adding tertiary treatment and solids dewatering process to the plant to comply with the Tuolumne River Plan. Size: 50,000 gallons per day (gpd) wastewater treatment, 2,000 feet of treated water piping Cost: $1.07M (total TO fees); $50M (total construction est.)

PROJECT SERVICES

REPLACE WWTP

Jacobs completed the PD and SD phases for the replacement of the Tuolumne Meadows WWTP at Yosemite National Park. Working closely with the Yosemite NP staff, a new suitable location for the plant was identified with minimal impacts to the historic architecture, natural, and culturally sensitive areas in the vicinity and strict compliance with the Tuolumne River Plan. Our pipeline technology experts evaluated multiple routes and construction options for the plant effluent pipeline, considering the unique geography, natural, cultural, and visitor impacts. The seasonal operation, accessibility, and remoteness of Tuolumne Meadows presents challenges to both wastewater treatment process and construction constraints that the Jacobs team is highly familiar with. As part of the PD and SD phases, Jacobs conducted Site Analysis, Contextual Analysis, evaluated

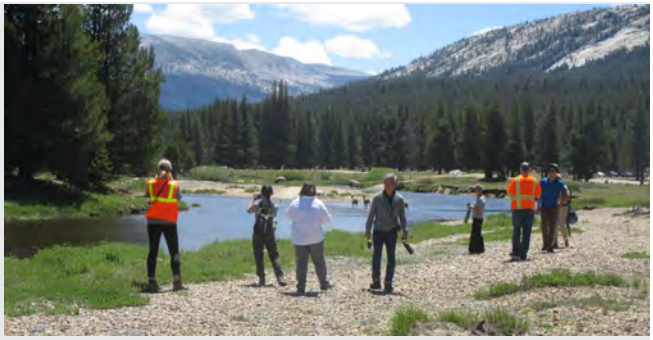
Tuolumne Meadows WWTP

alternatives through the NPS VA process and developed Class B and C construction cost estimates. Since the new WWTP will require reliable potable and code-compliant fire water service, it will be imperative to have close collaboration between the Tuolumne Meadows WWTP project and the new water distribution system to confirm the WWTP can be commissioned on schedule.

SUPPLEMENTAL SERVICES

ORGANIZATION, COORDINATION, AND SPECIALIZED SERVICES

We performed a wide variety of supplemental services for the Tuolumne Meadows WWTP, including ground surveying, subsurface utility locating, aerial mapping, geotechnical investigations, hazardous materials investigations, and wastewater sampling and testing.



Surveying for new WWTP location at Tuolumne Meadows.

CHALLENGES AND OPPORTUNITIES

SEASONAL PLANT OPERATIONS

Jacobs

In addition to the unique environmental and culturally sensitive area that the treatment plant is in, the Tuolumne Meadows area is closed and inaccessible for much of the year (October through May). Careful design consideration was given to the treatment process and plant effluent disposal ability to start and stop quickly and limited seasonal construction window. While the plant is staffed full-time, it is only staffed by one person. The treatment process and equipment were designed to accommodate this limitation with worker safety a high priority.

PROJECT HIGHLIGHTS

Close collaboration with the Yosemite NP staff from many different groups and specializations during workshops and meetings allowed the project to progress with carefully considered decisions. We combined expertise from NPS and Jacobs staff to reach consensus on many complex subjects to balance the best solutions for the plant staff, minimizing impacts to the environment and park visitors, addressing significant wastewater treatment deficiencies, and finding the best value for the available funding.

Through site assessment and further investigations, our team discovered the effluent pipeline were aging and at high risk of failure. This risk factor was unknown during the original scope of work. In collaboration with the park and Denver Service Center (DSC), it was decided to add the replacement of the pipeline as part of the scope of work. In addition, WWTP staff identified existing effluent ponds are a restriction to spring plant startup due to snow accumulation during the winter season. We identified solutions to replace a pond with a covered storage tank, thereby eliminating the need for the ponds to improve the plant operations.

PAST PERFORMANCE

To date, we've completed our PD and SD designs on time to meet the objectives of the NPS. We note that CPARS for this project are in process and refer you to block *23. Project Owner's Information* as our reference.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Jacobs Government Services Company	Greenwood Village, CO, Sacramento CA, Corvallis, OR, San Francisco, CA, Redding, CA	Prime: Designer of Record

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Identification and Preliminary Design of Potential Locations for Launch Ramps at Lake Powell, Glen Canyon National Recreation Area, UT | Contract No:140P2021D0007; TO No: 140P2021F0391 and 140P2022F0267	2023 (est.)	2025 (est.)

23. PROJECT OWNER'S INFORMATION

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

With unprecedented low water conditions and as the Designer of Record we are providing resilient solutions to relocate or rehabilitate four launch ramps at Lake Powell in Glen Canyon National Recreation Area, UT

Key Relevance
✓ Renovate/new roadways, transportation corridors, parking lots, and bridges
✓ Replace/relocate utility systems, such as wastewater, electrical, water and water treatment, heating/cooling, telecom, wells, and distribution
✓ Rehabilitate/renovate/new boat ramps board walks, and associate aquatic structures
✓ Climate Resilience/Solutions

PROJECT OVERVIEW

NPS is evaluating constructing, modifying, or relocating boat ramps at four visitor use areas within Glen Canyon National Recreation Area. Due to unprecedented low water conditions at Lake Powell, there is a need to develop a rapid response plan to maintain boater access with resilient, long-term, engineered solutions. This project began by focusing on launch ramp site selection and layout for four visitor use areas under a single task order: Bullfrog, Halls Crossing, Antelope Point, and Hite. The sites will be progressed to construction as separate task orders. The design for Bullfrog is currently in progress. Size: The proposed four launch ramps are approximately 150-ft-wide by 2,400-ft-long Cost: $1.2M (combined TO fees).

PROJECT SERVICES

SITE SELECTION

A primary goal of the concept phase was to understand functional requirements of the launch ramps. This effort provided information to develop design criteria and identify project needs for the detailed design phase. To achieve this, we held eight early listening sessions with key stakeholders including commercial use authorizations, concessionaires, and informal conversations with Navajo Nation between November 2021 and February 2022. The purpose was to provide a forum for input informing design considerations for the launch ramps. Prior to the listening sessions, we developed with the park a Communications Strategy to address internal and external communication and outreach.

End of Antelope Point Launch Ramp several feet above lake level

Additionally, we subcontracted a visitor use analysis to confirm existing services at the different launch ramps and provide continuity to visitor experience in the new design.

At Hite, we prepared a hydrogeology report to understand the dynamic changes in riverbed/bank stability and inform site selection.

Dirty Devil Confluence at Hite

We identified and executed required field work and site surveys including a topo/bathymetric survey, geotechnical boring investigation, and utility survey. Field work was challenging due to the remote nature of the sites, and the limitations of launching vessels due to low water; as a result, we had to develop customized mobilization approaches for the project.

Jacobs

CONCEPT DESIGN AND EVALUATION

Following the development of design criteria for each site, and understanding the existing conditions and project needs, we advanced three concepts for each of the four visitor use areas. Each concept design was accompanied with a NPS Class C Cost Estimate and proposed construction schedule.

We facilitated VA workshops to evaluate the scalability of certain design criteria that may be adjusted in the detailed design phase to reduce construction costs to meet available funding. For example, these variables include evaluation of design high and low water elevations, project phasing and width of ramps.

BULLFROG DESIGN-BUILD (DB) RFP

This project consists of preparing plans, specifications, and estimates (PS&E) package that includes details for addressing low water lake access for the Bullfrog District. The design advanced the concept design for the Launch Ramp at Bullfrog and introduced design for additional infrastructure needs such as the access road, parking and utility connection for the marina. Primary deliverables include the development of a complete SD (30%) PS&E for Bullfrog, including development of DB RFP contract documents to support NPS issuance of a competitive contract solicitation for final design and construction services.

Helicopter delivering equipment to site for geotechnical investigation at proposed launch ramp location for Bullfrog

Included items are:

- Concrete Launch Ramp, 2,430 feet long by 150 feet wide on a 10.5% grade
- A new 3.8-mile roadway access including drainage to the new launch ramp
- A new 16-acre parking area layout with scalable build options down to 6 acres to accommodate associated ramp usage
- Utility relocation design providing utility service for water, wastewater, power, and telecommunications to the top of the new ramp
- Other items such as Specifications, Class C cost estimate, construction schedule, and hydrology memo.

CHALLENGES AND OPPORTUNITIES

DESIGN SCALABILITY

Construction funding for the Bullfrog Launch Ramp work was established at $33M; however, the final anticipated construction costs have not been determined. We develop the RFP document to be set up with scalable options for the Contractor to bid on building flexibility into the procurement process, fitting the project within the available funding at the time of procurement.

EMERGENCY RESPONSE

There are currently no functioning boat launches in North Lake Powell. This recreation area provides outdoor recreational enjoyment for millions of visitors a year. The project represents an urgent need to develop multiple scalable options providing safe access to the water.

STAKEHOLDER ENGAGEMENT

This project allowed for several opportunities to engage with other agencies such as U.S. Geological Survey (USGS), U.S. Army Corps of Engineers (USACE), and Utah Department of Transportation, as well as local partners. The goal of the new launch ramp design is to truly serve all community needs in a combined multi-use ramp and provide regional connectivity between remote areas.

PROJECT HIGHLIGHTS

We worked closely with the Glen Canyon National Recreation Area staff conducting weekly project advisory team meetings to provide ongoing input and support, to streamline processes and manage risk, and to achieve the project goals and objectives. The advisory team is an integral part of the steering process as the project moves from concept to construction.

Primary goals of this team are:

- Obtain prompt and thorough decisions
- Expedite delivery by Integrating decisions with the schedule
- Manage appropriate inputs on critical project issues
- Manage and mitigate project risk

PAST PERFORMANCE

To date, we've developed the conceptual design and PD phase to evaluate the designs for relocating or rehabilitating four boat ramps. Through complex collaboration with stakeholders, local tribes, and the NPS, we were able to meet a tight schedule for the initial phase work. We note that CPARS for this project are in process and refer you to block *23. Project Owner's Information* as our reference.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Jacobs Government Services Company	Greenwood Village, CO; Denver, CO	Prime: Designer of Record

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Evaluation and Design for Rehabilitation and Replacement of Wastewater Treatment Plants at Phantom Ranch and South Rim, Grand Canyon National Park, Phoenix, AZ | Contract: 140P2021D0007 | TOs: 140P2021F0257 and 140P2022F0009	2021	Phantom Ranch 2022 South Rim 2026 (est.)

23. PROJECT OWNER'S INFORMATION

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

Designer of Record for complex design in remote locations, providing VA, and developing sustainability and resiliency in our designs, while protecting the natural and cultural resources at Grand Canyon NP.

Key Relevance
✓ Renovate/new **roadways**, transportation corridors, parking lots, and bridges
✓ Replace/new utility systems, such as **wastewater**, electrical, **water and water treatment**, heating/cooling, telecom, wells, and **distribution systems**
✓ **Rehabilitate**/renovate/construct new **buildings**
✓ **Rehabilitate**/renovate **landscapes**
✓ Assist with regulatory Permitting

PROJECT OVERVIEW

We provided conceptional evaluation and wastewater treatment engineering design services for NPS to consistently maintain reliable treatment of the higher and variable incoming flows at the Phantom Ranch WWTP, and to meet permitted effluent water quality standards and solids disposal requirements at the South Rim Water Reclamation Facility (WRF), per Arizona Department of Environmental Quality requirements. We evaluated the original systems and operations and provided recommendations for short-term modifications to address immediate needs and a long-term solution considering the 20-year planning horizon at Phantom Ranch and the 50-year planning horizon at South Rim. **Size:** 5,400 gpd (Phantom Ranch); 0.65 mgd (South Rim) | **Cost:** $3.33M (combined fees) $72.8M (combined construction).

PROJECT SERVICES

PHANTOM RANCH WWTP

This facility serves visitor and support services for Phantom Ranch and Bright Angel Campground including 30 permanent residents and up to 182,000 annual visitors. Phantom Ranch WWTP has a 5,400 gpd average annual capacity.

The facility had limitations to treat current flows and loads to consistently meet permitted effluent water quality standards. Our team identified challenges with both the liquid stream and solids

View of the wastewater reclamation facility from Trail 3 at Grand Canyon National Park, Arizona

stream, based on impacts from changed wastewater characteristics, increased visitation, and aging technology. We performed an alternatives analysis to select a treatment process that could improve performance within the existing tankage for a short-term period until a new WWTP could be designed and built in the Delta. Particular attention was given to equipment selections due to power supply limitations by the utility provider, as well as remote access and weight for supplies and equipment that required transportation by helicopter.

Relevant scope items for the Phantom Ranch WWTP are:

- Process and operations assessment
- Recommendations for short- and long-term repair solutions
- Remote location
- Highly efficient WW systems for areas with a limited electric supply
- Technology selection to achieve treatment goals and existing tank retrofit
- Design to maximize constructability and upgrades to an existing facility

Design and construction of the short-term improvements are substantially complete, including added influent screening, secondary treatment upgrades to an integrated fixed film activated sludge process, clarifier modifications, and a new tertiary filter to improve performance and capacity. Because of the limited power available to the site, we provided extensive coordination with the Arizona Public Service Company to align the design demands with the available power. We also developed the application for

the Aquifer Protection Permit and assisted NPS with securing this operating permit. The fee for the work at Phantom Ranch was $1.2M, with a construction value of $3.4M.

SOUTH RIM WWTP

The South Rim WWTP services 3,500 permanent residents, a school, campground, hotels, food service, and public restrooms with roughly 5,000,000 visitors annually. The capacity is 650,000 gpd.

The project developed preliminary and SD for the replacement of existing 650,000 gpd treatment and auxiliary facilities with new plant that would support anticipated growth in visitors and deliver continued efficient and compliant operation for 50 years, through 2070.

Existing Aeration Basins at South Rim WWTP

Improving effluent quality was a key objective – the new plant produces enhanced Class A+ effluent quality (provides nitrification / denitrification with effluent nitrogen target of less than 8 mg/L nitrogen). High effluent quality sets the stage for future expansion of reclaimed water use at the park, as well as potential potable reuse (with additional treatment).

Evaluation of technologies was a key element of developing efficient and functional replacement project. Through workshops with NPS staff and consideration of park priorities, we selected technologies that reduce burden on operation and maintenance (O&M) staff and improve automation.

Membrane bioreactor is the core of the liquid treatment process following coarse and fine screening/grit removal and flow equalization. This technology provides superior liquid/solids separation in lieu of existing secondary clarification and filtration. Ultraviolet disinfection will replace gaseous chlorine, improving safety and reducing O&M cost. Solids treatment includes properly sized aerobic digestion and mechanical biosolids dewatering that will meet biosolids stabilization performance and compliance targets.

As Designer of Record, we designed new facilities to include an administration building with new laboratory for process testing and control, as well as a maintenance building and covered storage. Our team worked with NPS staff to develop functional requirements for these buildings that not only met plant needs, but also provided meeting space and a common base of operations for over 50 staff who operate park facilities.

Minimizing impact on previously undisturbed areas was a key project requirement. We developed the project to allow for construction of new facilities within the existing constrained site fenceline while maintaining existing plant's operation. Site layout takes advantage of the sloping site and gravity flow while minimizing pumping and the associated long-term energy costs for optimized lifecycle costs.

Relevant scope items for the South Rim WWTP are:

- Treatment strategy yielding a high-quality effluent for reuse
- Design flexibility for phasing of capacity over 50-year service life
- New technology to meet current and future effluent discharge and reclaimed water goals
- Design on a compact site within existing WWTP fenceline
- Automation to improve operability and minimize impact on plant staff
- Planning of phasing, startup, and commissioning to maintaining compliant operations through construction

We were then selected to design the replacement plant to provide 0.83 mgd capacity for 2045 flows. Our design includes future use of the structures for 2070 flows and loads (1.0 mgd capacity) with minor mechanical improvements. The fees for the work at South Rim were $2.13M with a construction value of $69.4M.

SUPPLEMENTAL SERVICES

VA/CHOOSING BY ADVANTAGES (CBA)

We evaluated alternatives at each site on both economic and non-economic factors, including total lifecycle cost modeling. We compared the capital cost, O&M cost, and 20-year net present value estimates for the alternatives against non-monetary scoring, on such criteria as ease of O&M, how well-proven the technology is, footprint impacts, sustainability, and other factors. By using VA/CBA, our long-term recommendations for Phantom Ranch WWTP are not based on the lowest cost alternative, but instead incorporate the alternative that provides the most redundancy in the smallest footprint and is best positioned to consistently produce a high-quality effluent under seasonal variations experienced due to visitation.

NATURE-BASED RESILIENCE SOLUTIONS

Long-Term Planning: we worked closely with NPS to establish reasonable ranges of growth and the regulatory outlook. We brainstormed and prioritized alternatives to provide design resiliency by incorporating redundancy, flexibility to transition from current conditions to future flows and loadings, and flexibility to meet the most stringent of future permitting requirements.

CHALLENGES AND OPPORTUNITIES

SHORT-TERM SOLUTIONS TO OPTIMIZE OPERATIONS

To quantify current deficiencies and identify immediate improvement priorities, our initial steps on both projects involved meeting with regulatory agencies and conducting site visits with our multidisciplinary team of engineers. This team included a process engineer, operations specialist, mechanical engineer, and electrical engineer, who confirmed site limitations, identified opportunities, and confirmed compliance with current codes. By fully understanding the current regulatory environment and changes that could be triggered by a construction improvement project, our team is best able to assess conditions and brainstorm alternatives.

PAST PERFORMANCE

To date, we've provided AE services developing challenging designs for remote locations with limited electrical systems, taking into consideration the quality and impacts to natural and cultural resources. We note that CPARS for this project are in process and refer you to block *23. Project Owner's Information* as our reference.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Jacobs Government Services Company	Greenwood Village, CO, Cary, NC;	Prime: Designer of Record

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Muir Woods Road Sustainable Access Project, Muir Woods National Monument, Marin County, CA | Contract No: 140P2021D0007; TO No: 140P2021F0245	2023 (est.)	2027 (est.)

23. PROJECT OWNER'S INFORMATION

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

We are collaborating closely with the NPS to submit a Sustainable Sites Initiative (SITES) application in pursuit of a Gold rating and improved accessibility at Muir Woods National Monument.

Key Relevance
✓ Renovate/new roadways, transportation corridors, parking lots, and bridges
✓ Replace/new utility systems, such as wastewater, electrical, water and water treatment, heating/cooling, telecom, wells, and distribution systems
✓ Rehabilitate/renovate/construct new buildings
✓ Rehabilitate/renovate landscapes
✓ Rehabilitate/renovate/new trail and corridor design
✓ Rehabilitate/renovate/new boat ramps board walks, and associate aquatic structures

PROJECT OVERVIEW

Muir Woods National Monument is world renowned for its old growth coastal redwoods, attracting over 1 million visitors annually. The Muir Woods Sustainable Access Project (SAP) will improve visitor facilities and public spaces at the entry plaza, four parking lots, trails (including a pedestrian suspension bridge), and restoration of natural drainages and habitat. The SD effort was delivered by Jacobs through a FHWA CFLHD contract, retaining Jacobs in the fall of 2019 to rescope the projects with a new project delivery plan. Size: 9.5 acres; Cost: $875k (Total TO fee); $13.7M (construction est.)

PROJECT SERVICES

Jacobs developed a delivery plan during the SD that utilizes three federal funding sources, resulting in a design where elements can be advanced in parallel. A key aspect to the delivery plan was facilitating focused design element workshops with the partner agencies to reach consensus. The project advanced to a 30% design level with an SD report focused on the SAP elements and are currently marching toward a DD submittal in early 2023. The SD report facilitated the NPS gaining approval from the Design Advisory Board, which was successfully achieved in the fall of 2020. The SAP DD and CD design transitioned from CFLHD to the NPS after completion of the SD.

Schematic Rendering of the Dipsea Pedestrian Bridge

MAJOR SUSTAINABILITY EFFORTS

The SAP project will submit a SITES application in seek of a gold rating. SITES certification is a sustainability-focused process that was developed to protect ecosystems through proposed improvements, such as climate regulation, carbon storage, and flood mitigation. SITES documentation will include identification of the credits to pursue, calculation and analysis of potential credits, documentation to demonstrate achievement of prerequisites and credits, and submittal of the application to the Green Business Certification Inc. in pursuit of a gold SITES rating.

STORMWATER MANAGEMENT

The proposed increase in impervious area to accommodate visitor demand within a space constrained site has resulted in a challenging hydraulic design. We developed an approach with a focus on appropriate methods to handle stormwater effectively while minimizing impacts to this beautiful national resource.

PEDESTRIAN SUSPENSION BRIDGE

Three pedestrian bridge alternatives were investigated during the SD to replace the current wooden plank that spans Redwood Creek. The alternatives included a suspended bridge, a stress-ribbon bridge, and a prefabricated arched steel truss bridge. The cable pedestrian bridge was selected for design. It is an aesthetically pleasing choice that will blend into the natural environmental, improving the visitor experience. The proposed bridge will enhance the trail users experience and provide a safe crossing, removing the limitations currently faced when stream flow is high.

ELECTRIC VEHICLE INFRASTRUCTURE

Jacobs

Electric vehicle charging stations are included in the parking lot design. The design will use existing power sources.

SUPPLEMENTAL SERVICES

SS services for the project include:

- Topographic Survey and Mapping – We combined a supplemental survey with three previous surveys, all were in different coordinate systems.
- Hydraulics Study and Report – We provided analyses for documentation of bridge hydraulics, bridge waterway, provided permitting support, floodplain analysis and delineation, and design of special hydraulic features resulting in the delivery of a Hydraulics study.
- Geotechnical Investigation – We performed soil infiltration testing, soil contamination screening, and geotechnical investigation to support bridge design.
- Sustainable SITES Certification – We developed and submitted a SITES application in pursuit of a gold rating.
- Construction Phasing Plan – We developed a phased construction plan that accommodated construction funding in three phases.

CHALLENGES AND OPPORTUNITIES

This project is a wonderful opportunity to transform the visitor experience to serve as the type of "gateway" the Muir Woods National Monument deserves. The improvements will upgrade capacity so more visitors can experience the beauty, upgrade the look and feel of the area to more naturally blend in with the natural landscape, replace an old plank crossing Redwood Creek with a pedestrian suspension bridge, and improve accessibility and mobility throughout following the Architectural Barriers Act Accessibility Standard (ABAAS) guidelines and standards. All of this will be accomplished within the strict criteria required to achieve SITES certification, an accomplishment the visiting public will be proud of.

Muir Woods National Monument is a space constrained area; therefore, designing these ambitious improvements while meeting design and SITES accreditation criteria is the biggest challenge this project faces. Treating the added runoff from added parking lot space and a multi-use trail is a challenge the design team is successfully navigating. Other challenges include providing temporary accessibility and mobility accommodates throughout a phased construction plan, design of a unique pedestrian suspension bridge, implementing a design with the flexibility to accommodate future changes from parking lot attendants to automated kiosks, and coordinating all of these design changes with four other adjacent projects that are part of the Redwood Renewal suite of projects.

PROJECT HIGHLIGHTS

- Working on a project that seems to be universally accepted as something worth investing in and something to be excited about.
- Designing a complex project with significant discipline interdependencies all within the rigid requirements necessary to achieve SITES accreditation.
- Upgrading from the plank over Redwood Creek to an aesthetically pleasing pedestrian bridge.
- Improving the accessibility, mobility, and safety for visitors of this popular park.

PAST PERFORMANCE

Through our close collaboration with the NPS and subcontractors, the project advanced on schedule and within budget. We note that CPARS for this project are in process and refer you to block *23. Project Owner's Information* as our reference.

CLIENT COMMENDATION

> *"We received compliments on how compelling the design is and the quality of the presentation. [We] want you all to know that and thank you for all the hard work that has gone into this project. Diane and I have very much appreciated the attention you put into to the design."*
>
> —Dena Kennett, ASLA, Former NPS Landscape Architect/Project Manager, NPS, Golden Gate National Recreation Area

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Jacobs Government Services Company	Greenwood Village, CO	Prime A-E: Designer of Record

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Lodge Loop Road Design and Preservation at Sunset Point Road and Parking Areas, FHWA CFLHD, Bryce Canyon National Park, UT | Contract No: P15PC00018; TO No: 1400P2019F0336	2020	Loop Road 2022 Sunset Point Parking 2024 (est.)

23. PROJECT OWNER'S INFORMATION

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

Designer of Record to preserve the roadway at Bryce Canyon National Park, with over 2 million visitors a year. We collaborate with the NPS incorporating natural and cultural resource protection into our designs.

Key Relevance
✓ Renovate/new roadways, transportation corridors, parking lots, and bridges
✓ Locate utility systems, such as wastewater, electrical, water and water treatment, heating/cooling, telecom, wells, and distribution systems
✓ Rehabilitate/renovate/new trail and corridor design

PROJECT OVERVIEW

Jacobs designed a roadway rehabilitation project in Bryce Canyon National Park (BRCA 242700) for NPS DSC in 2019 and 2020. Services include designing a roadway rehabilitation project in this highly visited National Park in a remote location of Utah. We coordinated closely with park staff to maximize the rehabilitation of the road to reduce ongoing maintenance and add enhancements while remaining within the park budget. We developed project specifications to meet environmental constraints and provided safe access for the visiting public to park viewpoints, trailheads, and lodges during construction. Size: 1-mile length of Lodge Loop Road, 80,000 sf at Sunset Point parking area and access road Cost: $230K (total TO fees); $1.2M (total construction)

PROJECT SERVICES

ROADWAY PRESERVATION LODGE LOOP ROAD

Lodge Loop Road project in Bryce Canyon NP preserved 1 mile of road from the intersections with Highway 63 and the main park road. A geotechnical investigation was completed, and several options were evaluated and presented to the park. The final design of a 1-inch mill and a 2-inch overlay of asphalt concrete pavement provided a value add over a full 2-inch mill and overlay reducing the milling to just the top oxidized one inch of the asphalt pavement, but also increased the pavement structural section providing a one inch thicker section. A full survey of existing roadway features was completed by an in-house survey team. Design included evaluation for culvert replacement or cleaning, replacement of 22 Manual on Uniform Traffic Control Devices regulatory and warning signs, and all pavement markings.

Proposed location of a "traffic circle" at the Sunset Point parking area, Bryce Canyon National Park, UT

We designed safety improvements including pedestrian crossing signs and stop signs with solar powered flashing warning lights meeting International Dark Sky Park standards. Concrete curbs were designed to protect environmentally sensitive Utah prairie dog habitat located adjacent to the road. These prairie dogs have the most restricted range of the five prairie dog species inhabiting North America and are a threatened species. We wrote project specific specifications in the NPS CSI format to maintain access to lodges, motels, and trailheads, allowing for equestrian and pedestrian crossings, and protecting an historic gas station as well as the threatened prairie dogs during construction.

We also developed designs for the rehabilitation of the Sunset Point parking area and access road to a 30% design level, performed traffic studies to evaluate roundabouts at several intersections within the park, evaluated traffic calming alternatives, and completed conceptual design options for of a traffic circle at the entrance to the parking area. The proposed traffic circle provides a solution to keep private tour and park buses out of the Sunset Point Parking area and helps to improve traffic flow through the parking area while reducing or eliminating the requirement for park staff to be stationed at the parking area to direct traffic.

Jacobs

View from the Sunset Point Parking Lot

PS&E SERVICES

Jacobs provided georeferenced plans for field scoping of the project, completed 30%, 70%, 95%, and final stamped PS&E, and critical path method construction schedule.

PAVEMENT/ROADWAY

Multiple pavement alternatives were developed and evaluated including removal and replacement of the asphalt pavement, an overlay, and a mill and overlay. The parking area was evaluated for replacement of the asphalt pavement with either asphalt pavement or concrete pavement or a combination of both.

SUPPLEMENTAL SERVICES

GEOTECHNICAL/MATERIALS

Jacobs teamed with a geotechnical subcontractor, Shannon & Wilson, to provide borings of the proposed road and parking area and develop pavement alternatives to minimize construction cost Surveying, Energy Resiliency, Pedestrian Path, Rehabilitation.

Our survey crews provided full planimetric and topographic survey producing 3D models used to design ties into curb ramps and adjacent site features. We completed surveys of tree locations in a proposed overflow parking area to enable designers to design multiple options with minimal impacts to existing trees.

NATURE-BASED RESILIENCE SOLUTIONS

Concrete roadside curbs were designed to eliminate parking next to a Utah prairie dog colony.

CHALLENGES AND OPPORTUNITIES

Each year over 2 million people visit Bryce Canyon and minimizing impacts to visitors in the heavily used Lodge area during construction is a major challenge. Bryce Lodge, the General Store, and multiple trail crossings all were required to be kept open during construction and specifications written. A flashing beacon was added to improve safety at a heavily used pedestrian crossing, but Dark Sky restrictions required special shielding to keep the lights shielded from the sky. A concept was developed to provide a traffic circle outside of Sunset Point Parking which will keep bus traffic out of the parking lot, help alleviate traffic congestion, and the lesson the need for a full-time park employee to direct traffic.

PROJECT HIGHLIGHTS

The completed project provides a sustainable road with at least a 20-year life, safety improvements for road intersections and pedestrian and equestrian trail crossings, improvements to drainage, and additional protection to the prairie dog colony located adjacent to the Loop Road.

PAST PERFORMANCE

Through our close collaboration with the NPS and subcontractors, the project advanced on schedule and within budget. We note that CPARS for this project are in process and refer you to block *23. Project Owner's Information* as our reference.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Jacobs Government Services Company	Greenwood Village, CO	Prime: Designer of Record

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Replace Parkwide Utility Infrastructure, Catoctin Mountain Park, Thurmont, MD | 6 Contracts: P15PC00018/140P2020F0023, GS00F0025M / 140P2020F0345, 140P2020C0100/Req. #0040497365 / Sol.# 140P2020R0123, GS00F0025M / 140P2021F0024, GS00F0025MM / Sol.# 140P2021F0023, and 140P2021D0007 / 140P2021F0070	2020	2024 (est.)

23. PROJECT OWNER'S INFORMATION

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

Designer of Record for six Task Orders, we forged a strong relationship with the NPS, DSC, and Park staff, streamlining complex design decisions for the best alternative for the Park

Key Relevance
✓ Renovate/new roadways, transportation corridors, parking lots, and bridges
✓ Replace/new utility systems, such as wastewater, electrical, water and water treatment, heating/cooling, telecom, wells, and distribution systems
✓ Rehabilitate/renovate/construct new buildings
✓ Rehabilitate/renovate landscapes

PROJECT OVERVIEW

This project replaces NPS-owned and operated infrastructure systems, including potable water, sanitary sewer, electric power, and communications. The project corrects serious deficiencies of rapidly deteriorating systems ranging in age from 25 to 80 years old directly affecting the natural environment, park personnel, and visitors, and replaces the failing infrastructure with new systems that meet local, state, and national operational standards. It eliminates excessive groundwater inflow into the aged sewer collection system and provides code-compliant discharges. It also replaces an outdated potable water treatment and distribution system, including rehabilitation of fire hydrants. The predesign and SD phase were done under previous IDIQ. Size: 14.36 Acres; Cost: $3.5M (total TO fees); $21.72M (total construction est. including optional line items)

PROJECT SERVICES

The scope elements of work to replace the utilities infrastructure consisted of the preparation of the predesign, SD documents, design development, and construction documents. Jacobs initiated permit scoping and communication with the Maryland Department of the Environment (MDE), and Frederick County Health Department during earlier phases of the project and was involved in the pre-National Environmental Policy Act (NEPA) interagency meetings which allowed us to get agencies involved early in the project. In addition, we developed sustainability and constructability checklists, SD alternatives, and conducted a conceptual and design stage VA studies and reports. Cost estimates were developed for each of the design alternatives and Class A, B, and C estimates were developed for each phase of the project.

Further development of the selected design alternative included the consolidation of the water distribution and storage system for three of the camps; rehabilitation of five existing groundwater wells; replacement of primary water mains; replacement of primary sewer mains to reduce infiltration and inflow; rehabilitation of sanitary sewer lift station and replacement of one lift station; primary site electrical replacement including transformers; and fiber-optic backbone installation on the west side of the park from Camp Round Meadow gym to the new centralized treatment building location, with hardwire nodes to connect the treatment facilities (well houses, lift station, centralized treatment building, water storage tank). New utility corridors were designed in the shoulder of Park Central Road from Manahan Road to Camp Misty Mount to the Visitors Center. The project covers 14.36 acres of land disturbance across all camps and park road shoulders.

Camp Greentop Lift Station

Jacobs

SUPPLEMENTAL SERVICES

- Geotechnical investigation
- Topographic survey, utility locate, and tree delineation
- Well investigation
- Water sampling and analysis
- Micro-invertebrate investigation

ARCHAEOLOGICAL SURVEY

We conducted a Phase I archaeological survey within the project area of potential effects (APE). The APE consisted of 18.59 acres, including additional un-surveyed areas as a result of design realignments. The Phase I archaeological survey report was develop to fulfill the obligations under Section 106 of the National Historic Preservation Act and details the background research, field strategy, and survey results for the project elements. Onsite investigation included excavation of shovel test pits along Park Central Road, Manahan Road, utility corridors, and park camps. The Maryland State Historic Preservation Office concurred the project will have no adverse effect on historic properties.

INVESTIGATIONS, SURVEYING, AND GEOTECHNICAL

Follow-on work was completed under separate task orders that included groundwater well investigations. The groundwater well investigation was conducted at six existing groundwater supply wells to verify existing conditions, confirm as-built information, and identify design criteria.

Camp Misty Mount

An additional well test pit was included in the investigation to determine the reliable capacity, identify design criteria, and bring it to current well construction standards. The field work included wellhead condition assessment, video surveys, specific capacity tests, water quality sampling for drinking water and well condition/health/fouling, constant rate pump tests, installation of casing cemented in place to bring well to current well construction standards, and additional bacteria sampling to support preliminary determination of groundwater under the direct influence of surface water at well 5A. Other task orders included topographic survey, existing utility mapping, a forest stand delineation at Park Central Road, Visitor Center area, Camp Misty Mount, Camp Round Meadow, Camp Greentop, and Owens Creek Campground. The surveyor set up the controls and traverses and set six new permanent monuments at Catoctin.

Geotechnical investigation at the project limits of disturbance was conducted by a subconsultant in conjunction with our geotechnical engineers, including potholes excavations, and borings.

NEPA COMPLIANCE SERVICES

Our wetlands scientists completed a wetlands/ jurisdictional water and functional assessment within the area of disturbance and extended to a 25-foot buffer as required by MDE. We obtained a joint permit application approval from MDE prior to project solicitation. A special species survey including a micro-invertebrate investigation was conducted to identify any potential threatened and endangered species.

NEPA Compliance services were completed including developing a Communication Plan, Pre-NEPA public and agency engagement, support during consultation of Section 106, support and review on the development of the environmental assessment. Documents developed for NEPA services were 508 compliant, confirming accessibility.

EROSION AND SEDIMENT CONTROL AND STORMWATER PLANNING

We led the Erosion and Sediment Control Plans and Stormwater Management Plan approval process and gained approval prior to solicitation. A Forest Conservation Plan Applicability Determination packet was developed and submitted on behalf of the NPS, an exemption was received for the project.

We communicated effectively continuously throughout the project with NPS DSC, Catoctin Mountain Park, and Line of Construction Capital Region office staff.

CHALLENGES AND OPPORTUNITIES

Utility corridors had to be realigned to prevent impacts to cultural landscape and preserve trees. Our design team met in the field with the regional architectural historian to optimize utility alignments by maximizing existing gravel roads and preserving specimen trees. Conducting a joint site visit with the Park and Capitol Region staff expedited reviews and approvals from the NPS compliance team. As a result of the realignments, our archaeological and geotechnical teams re-mobilized quickly to conduct additional investigation to confirm compliance was still maintained.

During well investigations it was identified that well 5A (built in the 1950s) was not to state construction standards, including potentially having fractures which was also resulting in higher pump yields which were not accurate. Jacobs presented options to the NPS and a casing liner was installed inside the existing casing and redid capacity tests obtaining accurate yields. This allowed the NPS to make sound design decisions selecting which wells to supply the required capacity and which ones would serve as supplemental wells.

PROJECT HIGHLIGHTS

The NPS and Jacobs teams created a strong partnership through continuous transparent collaboration and communication. The NPS DSC, Park, and National Capital Region Line of Construction and Compliance teams were involved from day 1 of the project which allowed the resolution of complex design decisions in a timely manner, integration of solutions to select the best alternatives to improve park operations and streamlining compliance and permitting processes.

PAST PERFORMANCE

The project was completed within six separate task orders including design, supplemental services, and compliance. The CPARS ratings reflect the range of ratings received by Jacobs.

Quality: Very Good
Schedule: Satisfactory to Very Good
Cost: Satisfactory
Management: Very Good to Exceptional
Compliance: Very Good

CLIENT COMMENDATION

"The management of this task order [140P2020R0123] was exceptional. The AE resolved all issues and appraised the government of all issues and additional needs leading to a very good final deliverable. …The Project Manager and design team were very well organized and very good at identifying and resolving issues [140P2021F0023]. Their team identified issues and presented alternatives that allowed NPS to make informed decisions."

—Frank Camacho, Contracting Officer, Catoctin Mountain Park, NPS

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Jacobs Government Services Company	Herndon, VA; Arlington, VA; Philadelphia, PA; Silver Springs, MD; Morristown, NJ	Prime: Designer of Record

Jacobs

Jacobs

Canyon District Park

BOYNTON BEACH, FLORIDA

CLIENT
Palm Beach County Board of County Commissioners / Palm Beach County Parks & Recreation

CONTRACT
Program & Project Management Services

COST
$51M Construction

SIZE
55 Acres

COMPLETED
Phase 1: September 2022

SCHEDULED COMPLETION
Phase 2: December 2025

Project Description/Services Provided

Program, design and construction management of multi-phase program comprehensively consisting of three (3) natural grass multipurpose (soccer, lacrosse & football) fields, four (4) natural grass baseball fields, (2) batting cages, (2) sand volleyball courts, (1) signature County playground, (1) maintenance building, (2) concession buildings, (1) storage facility, (4) outdoor pavilions, multiple dives and parking areas and a 1-mile fit trail with exercise stations. All fields, the volleyball courts, playground, parking, drives and walkways are lighted for maximum usability and patrons' safety. The previously undeveloped 55-acre site is being developed in two (2) primary phases, with Phase 1 completed in September 2022. Phase 2 on schedule to be completed in December 22025. As the new park is located in the heart of a residential neighborhood, particular attention must be given to adjacent neighbors, providing unique challenges which require innovative solutions, such as the construction of temporary and permanent berms to mitigate construction noise, light and vibration. Although it is already a success with those that come from throughout Palm Beach County to enjoy the space, fields and other amenities, the true value of the new park will be fully recognized upon completion of Phase 2 later this year.

Jacobs

Canyon District Park

Additional Photos

Jacobs

Mack Bernard Park Neighborhood Center

WEST PALM BEACH, FLORIDA

CLIENT
Palm Beach County Board of County Commissioners / Palm Beach County Parks & Recreation

CONTRACT
Program & Project Management Services

COST
$9.5M Construction

SIZE
12,000 SF

SCHEDULED COMPLETION
Summer 2025

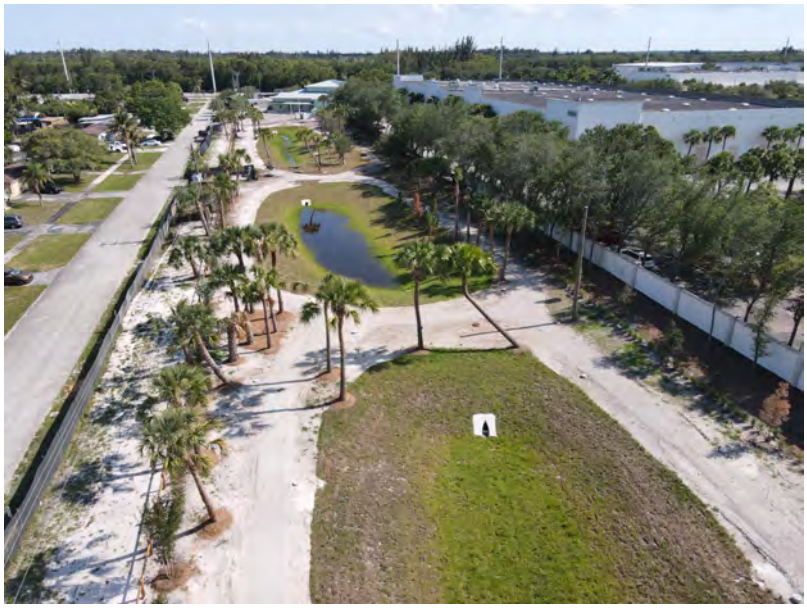
Project Description/Services Provided

Program, design and construction management of one-story, 12,000 square feet community center and day care for underprivileged youth on a previously undeveloped 6-acre site. The facility consists of a multipurpose room, music and dance studios, kitchen, day care spaces, nurse station and administrative spaces. Site development includes a ¾ mile walking trail, parking and development of remaining acreage for general park use. The project is on schedule to be completed under budget in Summer 2025, enabling the non-profit manager of the facility to seamlessly continue its efforts with the community.

Jacobs

Mack Bernard Park Neighborhood Center

Additional Photos



Jacobs

Lake Lytal Park Aquatic Center

WEST PALM BEACH, FLORIDA

CLIENT
Palm Beach County Board of County Commissioners/ Palm Beach County Parks & Recreation

CONTRACT
Project Management Services

COST
$48M Construction

SIZE
50-meter Competition Pool, Diving Pool, Aquatic Play Zone

SCHEDULED COMPLETION
Spring 2027

Project Description/Services Provided

Program, design and construction management of multi-phase project on previously undeveloped 22-acre site. The project consists of an 8-lane 50-meter competition swimming pool, competition diving well, aquatic play zone, rehabilitation pool, equipment building, concession building and lockers, education & administration building, as well as parking and associated competition amenities. The project is scheduled to be completed in Spring 2027. Simultaneously under constructed and contracted separately is an adjacent YMCA and Olympic-style skate park, requiring additional coordination and management with a design team and contractor external to the Aquatic Center project.

Jacobs

Parks & Recreation Sports Field Turf Replacement

PALM BEACH COUNTY, FLORIDA

CLIENT
Palm Beach County Board of County Commissioners/ Palm Beach County Parks & Recreation

CONTRACT
Program & Project Management Services

COST
$27M Construction

SIZE
19 Athletic Fields

ESTIMATED COMPLETION
Winter 2026

Project Description/Services Provided

Program, consultants and construction management of multi-phase Replacement of (19) existing natural grass multipurpose (soccer, football & lacrosse) and baseball fields with synthetic turf fields located in (8) parks throughout Palm Beach County. The project, with all parks scheduled to be complete before Summer 2026, overcame multiple design and permitting challenges due to the increased governing agencies involved with a project of this nature. To date, several parks are complete and have received praise from users due to the enhanced playing surfaces and reduction of injuries and from PBC Parks & Recreation because efficient management of the complex program.

Jacobs

Parks & Recreation Sports Field Turf Replacement

Additional Photos

NORTH AND SOUTH POCKET PARKS MASTER PLAN

LOCATION
Colorado

OWNER
Ute Mountain Ute Tribe

COMPLETION
Ongoing

The North and South Pocket Parks Master Plan for the Ute Mountain Ute Tribe resulted from a planning grant from Great Outdoors Colorado (GOCO), an agency of the State of Colorado's Parks and Wildlife Division. GOCO invests a portion of Colorado Lottery proceeds to preserve and enhance the state's parks, trails, wildlife, rivers, and open spaces. Santicola & Company is writing a $1,425,000 grant for Community Impact. The Community Impact program invests in projects that enhance a community's quality of life and outdoor access. The Community Impact program funds the planning and/or construction of new or upgraded parks, trails, natural areas, and other outdoor amenities. Funding may also be used for stewardship work. The maximum grant award through the state agency for 2025 is $1,000,000. In addition to writing the $1,000,000 grant application, Santicola & Company hosted a Rural Funders Learning Network and invited 16 private foundation donors to attend. As a result of the event, Santicola & Company received commitments for the matching grant amount of $425,000 in less than one month.

The project is being done in partnership with DHM Design and the State of Colorado. The grant application for $1,425,000 will be submitted in July 2025. The State of Colorado is working with Santicola & Company as well as the client to guide the grant writing process to assure the best chance of winning the grant.

Royal Palm Beach Commons

West Palm Beach, FL

The project consists of a 160±-acre parcel of land that was developed into a community park known as Royal Palm Beach Commons (former Traditions Golf Course site). The master plan of the park includes a community center; 9-hole executive golf course with a clubhouse, cart barn and starter hut; recreational area; horticultural center; community arts center; restaurant/sporting center; an access roadway to all amenities; vehicular parking lots; and an extensive lake system for canoeing and kayaking.

In 2007, Terracon (formerly Dunkelberger Engineering & Testing, Inc.), conducted a subsurface study, as a subconsultant to RPB Venture Ltd., that included drilling and sampling of exploratory borings, lake bottom probing and sampling, laboratory soils analysis, evaluation of the impact of the subsoils upon the proposed construction and development of recommendations for foundation design, floor slabs, pavements, earthwork and other related construction. Additionally, Terracon provided construction materials testing (field and laboratory) for Palm Beach Grading, Inc. from 2009 to 2011. In 2012 and 2013, the firm performed engineering services during construction (verification testing) to the Village and Erdman Anthony.

Because the site was a former golf course, we evaluated soil and groundwater quality to determine impacts from use of turf chemicals and found contaminants of concern in both media whose concentrations exceeded State cleanup levels. We worked with the project team to establish strategies for addressing the impacted media and assisted the civil engineer in developing a contaminated soil source removal plan and construction dewatering plan that was approved by the FDEP and SFWMD. Sampling and analysis was also performed during construction and source removal to assure that the construction contractor followed the project environmental specifications. At the conclusion of construction, Terracon performed a comprehensive post-construction site assessment in accordance with Chapter 62-780, FAC. The site assessment report summarized all environmental assessment and remediation activities from 2007 through 2014. We have been performing long-term groundwater monitoring at the site in advance of site closure since 2009.

CLIENT:
Village of Royal Palm Beach
Christopher Marsh, P.E.
Village Engineer
1050 Royal Palm Beach Boulevard
Royal Palm Beach, FL 33411
(561) 790-5161
cmarsh@royalpalmbeach.com

DATE:
01/ 2007 – Present

FIRM'S FEE:
$260,000 setimated

Terracon