



**Engineering Services for Stormwater Pumpstation #16
Jackson to Jefferson Street along SR A1A
RFQ No. 365-26-JJ**

Presented by: Ribbeck Engineering, Inc.

Submittal Date: February 12, 2026





TAB A

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TAB B

EXECUTIVE SUMMARY

February 12, 2026

City of Hollywood
C/O Jean Joinville, Procurement Manager
City of Hollywood, Florida



RE: RFQ-365-26-JJ - ENGINEERING SERVICES FOR STORMWATER PUMP STATION #16 - JACKSON TO JEFFERSON STREET ALONG SR A1A

Dear Selection Committee Members,

Like many vibrant beachfront communities, the City of Hollywood faces adverse impacts stemming from higher tide elevations, threatening its citizens, ecosystems, and economy. It is vital for the community constituents that the City's Stormwater Master Plan recommendations are implemented successfully. **Ribbeck Engineering, Inc. (REI)** stands ready to provide comprehensive Engineering Services to effectively execute the Stormwater Pump Station #16 Project.

Founded in 2008, **REI** is a local industry leader specializing in the design of major pump stations for coastal communities such as the City of Miami Beach, City of Miami, North Bay Village, Miami-Dade County, and the Florida Department of Transportation. We will leverage our expertise in stormwater modeling, pump station design, roadway design, permitting, and construction to deliver the most cost-effective and innovative solutions.

As you review our qualifications, experience, and proposed personnel for this contract, please consider the following benefits of selecting the **REI** Team:

RESPONSIVE PROJECT MANAGER The **REI** Team will be led by our Project Manager and Principle-in-Charge, Carlos Ribbeck, PE. With over 38 years of experience designing and managing projects, Carlos provides the right balance of expertise necessary to oversee all design and construction efforts. As the primary point of contact, Carlos will be fully available to answer any request and is committed to providing the City with quality services.

SPECIALIZED TEAM Carlos will be supported by a robust multi-disciplinary team with the proven record of delivering complex infrastructure improvement and pump station projects. Our comprehensive local team includes Delta Consultants (MEP and Utilities), WGI (Environmental), Chrome Engineering (Structures), Longitude Surveyors (Survey), HR Engineering Services (Geotechnical), and HML Public Outreach (PIO). **REI** has effectively collaborated with these subconsultants in the past and are confident of their performance. The primary leads have 70%+ availability and additional resources may be provided to meet demanding deadlines.

LOCAL FAMILIARITY We have assembled a local team of experts with first-hand knowledge of the intricacies in addressing flooding within coastal communities and the extensive coordination efforts with permitting agencies. **REI's** inherent regional knowledge, coupled with built-in relationships with local and state permitting agencies, will guarantee projects remain within budget and stay on schedule.

COMMUNITY FOCUS **REI's** public outreach approach fosters meaningful engagement and collaboration, promotes inclusion and demographic diversity, builds transparency, and creates outcome-oriented projects. **HML** is currently leading outreach for the City of Hollywood CRA's Phase IV: Undergrounding of Overhead Utilities and Streetscape Beautification Project, working directly with CRA staff, residents and property owners throughout the corridor.

RESILIENT AND SUSTAINABLE DESIGN ARE TOP PRIORITY

For over a decade, our firm has been at the forefront of providing resilient and adaptive engineering solutions throughout the South Florida region. Our **ASCE award-winning project in sustainability, SR AIA / Indian Creek Drive Flood Mitigation Project (City of Miami Beach)**, is proof of our commitment towards meeting resiliency goals. Currently, **REI** is finalizing the design for pump stations within vulnerable communities for North Bay Village (Harbor Island), City of Miami Beach (North Shore), and City of Miami (East Flagami, Little Havana, Wynwood). In addition, our team has managed, designed, and permitted over 13 pump stations within our local coastal communities.

Our experience includes, but is not limited to the following important projects:

SR A1A/Indian Creek Drive from 25th Street to 41st Street:	45,000 gpm pump station.
SR A1A/Indian Creek Drive at 43rd Street:	16,000 gpm pump station.
SR A1A/Collins Avenue from 4700 Block to 5800 Block:	100,000 gpm pump station.
SR 907/Alton Road from Michigan Avenue to 43rd Street:	(2) 25,000 gpm pump stations.
SR 907/Alton Road from 43rd Street to East of Allison Road:	(2) 100,000 gpm pump stations.
Biscayne Boulevard from NE 8th Street to NE 11th Terrace:	16,000 gpm pump station.
Biscayne Boulevard from NE 14th Street to NE 19th Street:	14,000 gpm pump station.

Our pump station expert, Francis Mitchell, PE, was the previous City of Miami Assistant Public Works Director in charge of inspecting, maintaining, and operating the City of Miami’s entire pump station infrastructure. During this time, he oversaw the design and construction of a variety of drainage infrastructure improvements. This unmatched experience allows Francis to provide cost-effective pump station layouts with consideration for constructability, maintenance, and operations. In preparation for this important project, our team thoroughly evaluated the field conditions and the Basis of Design Report, giving us a fundamental understanding of the project’s background and unique challenges. Our team has developed preliminary alternatives to the proposed concepts that minimize right-of-way impacts and facilitates maintenance access. The benefits and details of **REI**’s alternatives may be found under **TAB E** along with our approach to effectively executing this project.

We greatly appreciate your consideration of **REI**’s qualifications in providing professional services to the City of Hollywood and are committed to exceeding the City’s Community Redevelopment Agency’s expectations.

Best regards,



**Carlos Ribbeck, PE |
Principal-in-Charge**

REI acknowledges receipt of Addendum No. 1 through No. 2.

PROPOSER:

Ribbeck Engineering, Inc.
14335 SW 120th Street, Suite 205
Miami, Florida 33186

PRIMARY CONTACT:

Carlos Ribbeck, PE, Project Manager
E: hr@ribbeck.co
T: (305) 383-5909





TAB C
FIRM QUALIFICATIONS
AND EXPERIENCE

About Ribbeck Engineering, Inc.

Firm History and Overview

Established in 2008, Ribbeck Engineering, Inc. (REI), is a trusted, local firm providing exceptional planning, design, permitting, and construction management services for a variety of public agencies and municipalities throughout Florida. REI professionals provide the necessary pioneering experience to catapult our client’s visions forward.

REI, a Disadvantage Business Enterprise (DBE)/Small Business Enterprise (SBE)/Minority Business Enterprise (MBE) firm, is at the forefront of South Florida’s local infrastructure expansion, from planning phase to construction completion. Our motto “Small Business, Big Design” is largely made possible by the quality of our staff, driven workplace atmosphere, and innovative techniques. We foster and sustain a diverse, engaged, and creative environment where our team is empowered to provide innovative solutions for a more equitable and sustainable world. We prioritize a people-first culture, offering opportunities for professional development while valuing health and safety.

BUSINESS INFORMATION	
Year Established	2008
Business Structure	S Corporation
State of Registration	Florida
Business Address	14335 SW 120 th Street, Ste. 205 Miami, FL 33186
Business Phone	(305) 383-5909
Business Fax	(305) 383-5979
Web Site	Ribbeck.co
No. of Employees	20+
Project Manager	Carlos Ribbeck, PE
Contact No.	(954) 918-6769
Email	hr@ribbeck.co

REI Portfolio of Services



REI Licenses, Certifications and Credentials

The screenshot shows the Florida Department of Business & Professional Regulation (dbpr) website. On the left, there is a sidebar with 'ONLINE SERVICES' including links for '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', and 'AB&T Delinquent Invoice & Activity List Search'. The main content area is titled 'LICENSEE DETAILS' and contains two sections: 'Licensee Information' and 'License Information'. The 'Licensee Information' section lists: Name: RIBBECK ENGINEERING INC. (Primary Name), Main Address: 14335 SW 120TH STREET, SUITE 205, MIAMI Florida 33186, and County: DADE. The 'License Information' section lists: License Type: Engineering Business Registry, Rank: Registry, License Number: 27592, Status: Current, Licensure Date: 06/20/2007, and Expires: (blank).

**State of Florida
Department of State**


I certify from the records of this office that RIBBECK ENGINEERING INC. is a corporation organized under the laws of the State of Florida, filed on April 3, 2007, effective April 3, 2007.


The document number of this corporation is P07000041820.

I further certify that said corporation has paid all fees due this office through December 31, 2026, that its most recent annual report/uniform business report was filed on January 26, 2026, and that its status is active.

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

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-sixth day of January,
2026*




Secretary of State

Tracking Number: 1483450460CC

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

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


REI Licenses, Certifications and Credentials

State of Florida


**Minority Business
Certification**

Ribbeck Engineering Inc

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
02/04/2025 to 02/04/2027



Pedro Allende
Florida Department of Management Services



FLORIDA DEPARTMENT OF MANAGEMENT SERVICES
● ● ● SUPPLIER DEVELOPMENT

Office of Supplier Development
4050 Esplanade Way, Suite 380
Tallahassee, Florida 32399
850-487-0915
www.dms.myflorida.com/osd

Local Business Tax Receipt


Miami-Dade County Office of The TaxCollector
-THIS IS NOT A BILL - DO NOT PAY

6156806


BUSINESS NAME/LOCATION
RIBBECK ENGINEERING INC
14335 SW 120TH ST STE 205
MIAMI, FL 33186-7296

OWNER
RIBBECK ENGINEERING INC

Employee(s) 1



RECEIPT NO.
RENEWAL
6420616




SEC. TYPE OF BUSINESS
212 P.A./CORP/PARTNERSHI
P/FIRM

PAYMENT RECEIVED BY TAX COLLECTOR
75.00 09/08/2025
PTBTE-25-308772


EXPIRES
SEPTEMBER 30, 2026

Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10



This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business. The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276. For more information, visit mdctaxcollector.gov

REI's Prequalified FDOT Work Group Types



Florida Department of Transportation
605 Sunnuznee Street
Tallahassee, FL 32399-0450

RON DESANTIS
GOVERNOR

JARED W. PERDUE, P.E.
SECRETARY

June 16, 2025

Carlos Ribbeck, President
RIBBECK ENGINEERING, INC.
14335 SW 120th Street
Suite 205
Miami, FL 33186

Dear Mr. Ribbeck:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following professional services types of work per Rule 14-75, F.A.C.:

- 3.1 - Minor Highway Design
- 3.2 - Major Highway Design
- 3.3 - Controlled Access Highway Design
- 6.2 - Traffic Signal Timing
- 7.1 - Signing, Pavement Marking and Channelization
- 7.3 - Signalization

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2026, for contracting purposes.

Approved Rates

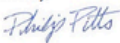
Home Overhead	Facilities Capital Cost of Money (FCCM)	Premium Overtime	Home Direct Expense	Published Fee Schedule
229.64%	0.517%	Reimbursed	0.00%	No

1

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

Should you have any questions, please feel free to contact me by email at FDOT.PSPrequalification@dot.state.fl.us.

Sincerely,



Philip Pitts
Professional Services Qualification Administrator
PP/YG

2

Subconsultants

Collectively we bring extensive technical expertise in pump station projects and have provided a team to cover all RFQ requirements to successfully deliver this project. The REI Team is supported by: Delta Consultants (MEP and Utilities), WGI (Environmental), Chrome Engineering (Structures), Longitude Surveyors (Survey), HR Engineering Services (Geotechnical), and HML Public Outreach (PIO).

Delta Consultants, Inc.

MEP and Utility Coordination



Delta Consultants, LLC (Delta) is a South Florida headquartered civil engineering firm that takes pride in being 100% minority and woman owned. Their professional staff are not only proficient project managers but are also technical subject matter experts that are experienced in the design, permitting, and construction of water, wastewater, stormwater, roadway, and site civil projects. Their team's primary focus is on the seamless execution and delivery of major public infrastructure projects, ensuring that they add value to their clients at every stage. With a strong emphasis on innovation, collaboration, and technical excellence, Delta is committed to providing top-tier engineering solutions for today's complex infrastructure challenges. Delta's multidisciplinary approach allows them to address each project holistically; leveraging their expertise in various fields to deliver sustainable, cost-effective, and environmentally responsible results that contribute to the betterment of our communities.

Delta's background, managing infrastructure projects from beginning to end, and from the perspective of an owner, a consultant, and a contractor, provides an in-depth understanding of proper planning for viable project execution. They have considerable experience in successful major public infrastructure projects and pride themselves in delivering projects that are fully constructed and operational. Leveraging their unique perspective, Delta ensures that projects align with client's objectives with stakeholder needs throughout the project lifecycle. Having been in your shoes, as municipal employees, Delta understand how important it is to have a true partner across all projects – one that is not myopically focused on the short term but is working to build a strong and lasting relationship.

WGI, Inc.

Environmental and Permitting



WGI is a national design and professional services firm headquartered locally in South Florida. WGI has approximately 500 professionals with a local office and environmental professionals in Fort Lauderdale. With over 100 continuing service contracts with municipalities and public agencies in Florida, WGI is very experienced with city projects.

WGI identifies environmental issues early, secures permits during design, and provides construction-phase environmental compliance. WGI's environmental professionals include Professional Wetland Scientists (PWS), Certified Environmental Professionals (CEP), ISA Certified Arborists, Professional Geologists (PG), Certified SCUBA divers, Florida Department of Environmental Protection (FDEP) Stormwater Management Inspectors, Florida Fish and Wildlife Conservation Commission (FWCC) Authorized Gopher Tortoise Agents, and Geographic Information Systems Professionals (GISP). Many of WGI's environmental permit specialists formerly worked for SFWMD, FDEP, and the USACE so they know the regulatory agencies from the inside out.

Subconsultants

Longitude Surveyors

Survey



Since 2004, Longitude Surveyors (Longitude) has been effectuating its professional Surveying & Mapping, 3D Scanning, Subsurface Utility Engineering (SUE), and Construction Surveying services with precision across South Florida for both public and private sectors. With a team of highly skilled professionals and cutting-edge technology, Longitude delivers unparalleled accuracy and efficiency in its surveying services. Longitude Surveyors possess extensive surveying experience within the City of Miami Beach. Longitude's track record speaks volumes about their expertise and reliability.

HR Engineering Services

Geotechnical



HR Engineering Services (HRES) is a SBE that provides geotechnical services such as subsurface explorations, both foundation and pavement evaluations/recommendations. HRES's expertise includes design, planning, execution of new geotechnical projects and the remedial procedures to correct foundation problems of existing structures, axial and lateral pile analyses, slope stability evaluation on retaining walls & embankments using geogrid layers and roadway construction over soft soils, and the design of numerous retaining walls.

Chrome Engineering Services

Miscellaneous Structures



Chrome Engineering, Inc. (Chrome), was founded by Mr. Oscar J. Cruz, in 2018 as a local engineering company with the objective of providing structural design consulting services for the multiple ongoing and planned projects within our area. They are prequalified to provide structural engineering services with the Florida Department of Transportation and Miami-Dade County. Chrome is also listed as an FDOT Small Business Firm and are a certified Disadvantaged Business Enterprise (DBE) with the State of Florida as well as certified as a Small Business Enterprise (SBE) with Miami-Dade County. Their current staff includes two Florida Registered Professional Engineers and two supporting structures designers.

HML Public Outreach

Public Involvement



Since 2010, HML Public Outreach LLC (HML) has successfully delivered public communications consulting services on more than 150 projects throughout South Florida. **HML is currently leading outreach for the City of Hollywood CRA's Phase IV: Undergrounding of Overhead Utilities and Streetscape Beautification Project, working directly with CRA staff, residents and property owners throughout the corridor.** This effort includes organizing community meetings, conducting targeted outreach, coordinating with hundreds of property owners, responding to stakeholder concerns and facilitating execution of license agreements. Through this ongoing work, HML has built strong relationships with the Hollywood community and is a recognized, trusted presence among residents and CRA leadership.

REI’s Stormwater Design Services

With growing environmental challenges and community expansions, providing sustainable designs is our top priority. For over a decade, REI has specialized in providing resiliency and adaptive engineering solutions for the local South Florida region. The REI Stormwater Team brings unparalleled experience and sets the standard for stormwater solutions across Florida.

REI is the prime consultant managing the FDOT D6 Drainage Districtwide Contract for three consecutive terms, since 2015. As part of this contract, we have completed multiple drainage feasibility studies and drainage emergency push button projects in both Monroe and Miami-Dade Counties. The following sections detail REI’s qualifications and similar pump station project experience.

Our team capabilities include:

- ▶ Drainage Design
- ▶ Feasibility Studies
- ▶ Stormwater Master Planning
- ▶ Watershed Studies
- ▶ Hydrology and Hydraulic Modeling
- ▶ Bridge hydraulic reports
- ▶ Scour Analysis
- ▶ Coastal Engineering Solutions
- ▶ Pump Station Design

Pump Station Design

The REI Team has designed over thirteen (13) pump stations throughout South Florida. We also managed the Miami-Dade County Public Works Miscellaneous Contract under the Stormwater Section for upgrades and improvements to eleven (11) stormwater pump station facilities owned and operated by the County. Currently REI is providing professional services to design pump stations within vulnerable neighborhoods for North Bay Village (Harbor Island), City of Miami Beach (North Beach), and City of Miami (East Flagami, Little Havana, Wynwood).

We provide fully integrated services that include:

- 1 Designing site plans that incorporate the generator, electrical pads, and control panels.
- 2 Preparing calculations and design for structural, mechanical, electrical and plumbing of the facilities.

Pump Station Completed Projects	Pump Station Details
SR 907/Alton Road from Michigan Avenue to 43rd Street	Two (2) pump stations of 25,000 GPM each
SR 907/Alton Road from 43rd Street to North of 48th Street	One (1) pump station of 100,000 GPM
SR 907/Alton Road from South of Lakeview Drive to Allison Road	One (1) pump station of 100,000 GPM
SR A1A/Indian Creek Drive from 25th Street to 41st Street	One (1) pump station of 45,000 GPM
SR A1A/Indian Creek Drive at 43rd Street	One (1) pump station of 16,000 GPM
SR A1A/Collins Avenue from 4700 Block to 5800 Block	One (1) pump station of 18,000 GPM
SR A1A/South Roosevelt Boulevard from Bertha Street to end of Smathers Beach (Monroe County, Key West)	One (1) pump station of 10,000 GPM
SR A1A/Roosevelt Blvd/Truman Ave/Eisenhower Dr/Jose Marti Dr Intersection Flood Mitigation (Monroe County, Key West)	One (1) pump station of 16,000 GPM
Biscayne Blvd from NE 8th Street to NE 11th Terr	One (1) pump station of 16,000 GPM
Biscayne Blvd from NE 14th Street to NE 19th Street	One (1) pump station of 14,000 GPM
Marlins Ballpark PS Capacity Upgrades	One (1) pump station of 50,000 GPM

North Bay Village Harbor Island Flood Mitigation Improvements



Project Owner: City of North Bay Village



Design Fee \$0.5M
Construction Fee \$5M



Project Length
0.4 miles



PM: Christina Viala
(305) 756-7171



Design Dates:
02/25 - On-going

Project Overview

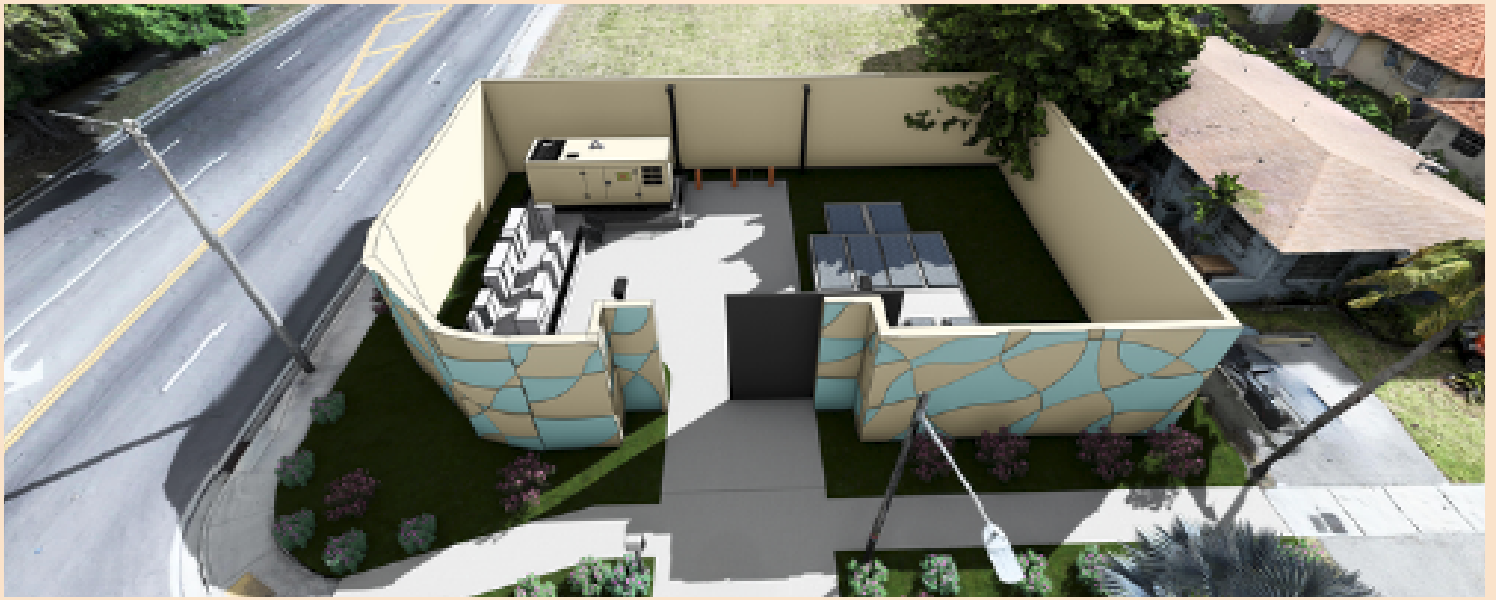
The project consists of implementing the construction of a new stormwater pump station system to provide an upgraded flood protection level of service to Harbor Island (HI) that was evaluated as part of the North Bay Village Stormwater Master Plan (SWMP). The SWMP indicates that the HI existing roadway profile is high enough and does not require raising the roadway. However, the existing drainage system composed of 9 positive gravity storm sewer systems of relatively small size do not have the conveyance capacity to handle anticipated year 2060 future Sea Level Rise (SLR) tailwater.

Ribbeck Engineering, Inc. serves as the prime consultant for this neighborhood flood mitigation project and Engineer of Record for roadway, drainage, temporary traffic control plans, and signing and pavement markings.

Pump Station and Stormwater System Details

The proposed enhancement of the drainage system will involve the removal of the current outfalls and gravity pipes, replacing them with a new collection system featuring inlets and gravity pipes that vary in diameter from 24 inches to 66 inches. Two gravity pipe laterals will be installed: one along West Drive and the other along East Drive. Each lateral will direct flow towards a pollution control structure to treat the incoming water by removing contaminants before it is discharged into the main drainage line. Once the water has been treated, it will overflow into a shared 66-inch trunk line leading to a duplex pump station. The pump station is designed to achieve a nominal pumping capacity of 25,000 gallons per minute. This approach not only maximizes the pumping capacity but also minimizes the physical footprint of the pump station, allowing for a lesser surface area. The pumps discharge via a common 30-inch ductile iron pipe, to an outfall structure that directs the pumped runoff into Biscayne Bay.

East Flagami Flood Mitigation Improvements - D4



Project Owner: City of Miami



Design Fee \$2M
Construction Fee \$25M



Project Length
1.8 miles



PM: Carolina Zamora
(305) 416-1184



Design Dates:
08/25 - On-going

Project Overview

The East Flagami Flood Mitigation Improvements Project was identified as one of twenty-five priority projects in the City of Miami's Stormwater Master Plan. The project aims to combat flooding and provide resilient infrastructure within the East Flagami Neighborhood.

Ribbeck Engineering, Inc. serves as the prime consultant for this neighborhood flood mitigation project and Engineer of Record for roadway, drainage, temporary traffic control plans, and signing and pavement markings.

Pump Station and Stormwater System Details

The proposed enhancement of the drainage system will involve a new stormwater pump station at NW 37th Avenue and NW 3rd Street. The original conceptual design included 7,620 feet of 48" forcemain, a series of 10 injection wells, an emergency outfall connection to the Comfort Canal, and regrading of swales and harmonization. **REI's innovative concept** eliminated 5,000 feet of forcemain, 1 mile of roadway restoration, watermain relocations, 10 injection wells, and the outfall connection by providing a French drain and forcemain interconnected system. Additional drainage improvements including exfiltration trench and conveyance pipes.

RFQ Concept



REI Concept



Flood Mitigation Improvements - D3 (Little Havana) and D5 (Wynwood)



Project Owner: City of Miami



Design Fee 3M
Construction Fee \$32M



Project Length
3.2 miles



PM: Clara Sidan, PE
(305) 416-1050



Design Dates:
01/26 - On-going

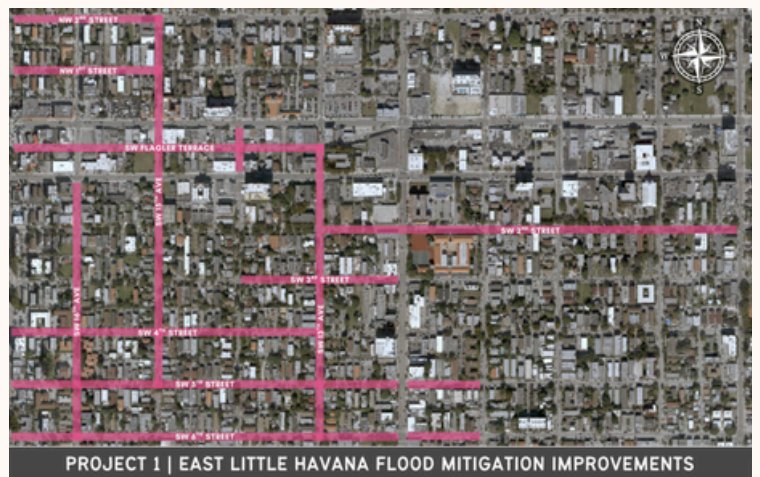
Project Overview

The contract is for two projects identified as priority projects in the City of Miami's Stormwater Master Plan. The first project is within the Little Havana neighborhood and the second one is for the Wynwood Neighborhood.

Ribbeck Engineering, Inc. serves as the prime consultant for this neighborhood flood mitigation project and Engineer of Record for roadway, drainage, temporary traffic control plans, utility coordination, and signing and pavement markings.

Pump Station and Stormwater System Details

Both projects include the design for a new pump station and upgrade of the existing drainage system along the highlighted areas below.



SR 907 (Alton Road) Reconstruction, 43rd Street to East of Allison Road



Project Owner: Florida Department of Transportation District 6



Design Fee \$2M
Construction Fee \$50M



Project Length
2.4 miles



PM: Ivette Funtanellas, PE
(305) 470-5270



Design Dates:
10/14 - 11/25

Project Overview

State Route 907 (Alton Road) is a critically low-lying roadway facility and four-lane divided highway that runs north-south along Miami Beach's Biscayne Bay coastline. Alton Road is a main thoroughfare for commuters from North Beach, particularly for access to Highway SR A1A and Mount Sinai hospital. The roadway asphalt pavement on the 2.8-mile stretch from 43rd Street to east of Allison Road is exhibiting substantial deterioration, in large part due to recurrent flooding and high tide conditions specially during King Tide Season. Ribbeck Engineering, Inc. has partnered with H. W. Lochner to provide engineering services for this FDOT project. Ribbeck Engineering, Inc. serves as the Drainage and Signal Engineer of Records for the project.

Pump Station and Stormwater System Details

Project improvements include roadway reconstruction, the design of three (3) major pump station facilities (one (1) of 100,000 gallons per minute and two (2) of 50,000 gallons per minute each, new 96-inch trunk-lines, roadway and drainage improvements, as well as seawall reconstruction.

SR 907 (Alton Road) Reconstruction Michigan Avenue to 43rd Street



Project Owner: Florida Department of Transportation District 6



Design Fee \$1.3M
Construction Fee \$30M



Project Length
1.2 miles



PM: Felix Hernandez, PE
(305) 470-5274



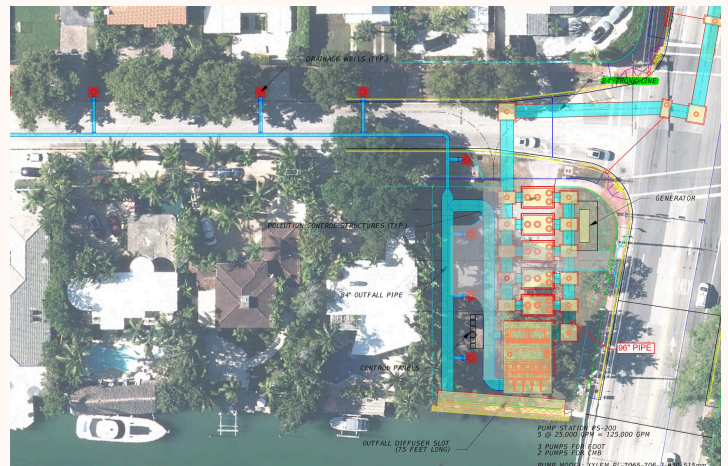
Design Dates:
10/2014 - 6/2024

Project Overview

State Road 907 (Alton Road) is a critically low-lying four-lane divided highway that runs north-south along Miami Beach's Biscayne Bay coastline. The roadway asphalt pavement on the 1.2-mile stretch from Michigan Avenue to 43rd Street is exhibiting substantial deterioration, in large part due to recurrent flooding and high tide conditions specially during King Tide Season. Ribbeck Engineering, Inc. has partnered with FDOT District 6 to provide drainage design and permitting services.

Pump Station and Stormwater System Details

Project improvements includes the design of two (2) major pump station facilities one of 23,000 gallons per minute and the other one of 33,000 gallons per minute each, a 66-inch trunk-line, roadway drainage improvements and seawall reconstruction.



Biscayne Boulevard at NE 10th Street Pump Station



Project Owner: Florida Department of Transportation District 6



Design Fee \$200K
Construction Fee \$1M



Project Length
0.2 miles



PM: Jessica Cruz, PE
(305) 470-5105



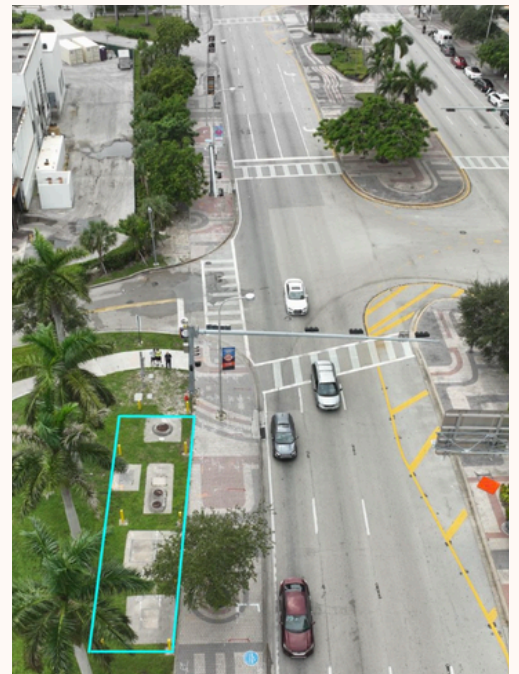
Design Dates:
1/2022 - 12/2025

Project Overview

The existing pump station facility provides flood protection to a vulnerable low-lying segment of SR 5/Biscayne Blvd. from NE 9th Street to NE 11th Street. Ribbeck Engineering, Inc. was the Drainage Engineer of Record responsible for the design of drainage improvements and upgrades to the existing FDOT stormwater pump station located at SR 5/Biscayne Boulevard and NE 10th Street.

Pump Station and Stormwater System Details

The upgrades consist mainly of replacing the existing dual 5,700 gallons per minute submersible pumps with two new pumps, 8,000 gallons per minute each. This pump station presents a chronic deficiency due to a flow recirculating condition which is caused by a plumbing layout that relies on the capacity of three injection wells. The deficiency was mitigated by redirecting the pressure overflow pipe from the wells to a downstream structure fitted with backflow preventer flap gate. In addition, the "ON" and "OFF" cycle time was improved by upsizing the upstream pipes from 24 inches to 36 inches. These improvements improved the resiliency of the system to handle the negative effects of sea level rise. Additional drainage improvements included increasing storm sewer conveyance capacity, from NE 10th Street and NE 11th Street, into the pump station by upsizing storm sewer crossing connections. This improvement together with the increase in pump discharge capacity will alleviate flooding at the NE 10th Street and NE 11th Street intersections.



SR A1A/Indian Creek from 25th Street to 41st Street Flood Mitigation Project



Project Owner: City of Miami Beach



Design Fee \$4.5M
Construction Fee \$50M



Project Length
1 mile



PM: Carla Dixon, PE
(305) 637-7071



Design Dates:
1/2016 - 5/2023

Project Overview

This segment of SR A1A/Indian Creek Drive was subject to recurrent tidal flooding, especially during King Tide Season. Increased high tide conditions through the previous years (2010-2015) resulted in creek waters overtopping the seawall and generating recurrent and severe tidal flooding within an extremely low-lying roadway facility, with an average edge of pavement elevation at or below 1.0'-NAVD. The City of Miami Beach declared this roadway facility under emergency status in 2014 and decided to joint-venture with FDOT to implement the necessary improvements for this facility to mitigate the flooding. In early 2016, Ribbeck Engineering, Inc. was contracted by the City of Miami Beach to be the project Engineer of Record and manage the project as the Prime Consultant.



Pump Station and Stormwater System Details

The project included: 1) Reconstructing 1-mile of SR A1A corridor to raise the roadway profile an average of 2.5 to 3.0-feet (from 1.0'-NAVD to a minimum PGL elevation of 3.7'-NAVD). 2) Harmonizing into private properties providing required access modifications, grading and offsite drainage collection. 3) Replacing the obsolete and undersized positive gravity storm sewer system by a 1-mile long 72-inch SRPE (Duromax) water-tight trunkline, providing roadway drainage improvements tied into the trunk-line including new inlets, manholes and lateral drains along the mainline and at side streets. 4) Constructing a pump station with triple vertical submersible propeller with a total of 45,000 GPM capacity. The pump station included three (3) large size pollution control structures (Ecovault), trash rake unit, wet pit unit, check and gate valve unit, energy dissipator unit and a 45-foot long outfall rectangular outfall slot special structure with aluminum vane grates.

SR A1A/Indian Creek from 25th Street to 41st Street Flood Mitigation Project

All units were pre-cast concrete structures. 5) Providing the pump station system with a 450 KW bi-fueled (gas and diesel) emergency generator. 6) Replacing 1-mile stretch of the 100-year old seawall, with an existing average top elevation of 1.0'-NAVD by a new concrete panel seawall with a top elevation of 5.7'-NAVD. 7) Securing environmental permits including DRER Class I (coastal) and Class II (drainage), SFWMD ERP (drainage and dredge and fill), FDEP Class V (temporary drainage wells for dewatering), USACE 404 (seawall construction and dredge and fill activities). In addition, all incidental improvements such as signals, signing and pavement marking, lighting, and greenway.

Various construction issues were encountered with respect to unknown utilities, abandoned structures, and permitting issues. The trunk line being a curvilinear pipe to hug along the meandered roadway with numbered layout pattern was successfully installed. The maintenance of traffic was implemented for the new and existing drainage systems to remain functional at all times. Well point systems connected through pumps into temporary drainage wells were used for dewatering construction.



SR A1A/Indian Creek Drive/Collins Ave 42nd Street to 44th Street & Along 43rd Street



Project Owner: Florida Department of Transportation District 6



Design Fee \$200K
Construction Fee \$7M



Project Length
1.4 miles



PM: Felix Hernandez, PE
(305) 470-5274



Design Dates:
5/2012 - 2/2015

Project Overview

The project initiated in early 2012 due to increasing flooding complaints from building owners for the segment of SR A1A/Collins Avenue from north of 42nd Street to south of 44th Street with underground parking garages being flooded during King Tide Season. The project consisted mainly of drainage improvements and pavement milling and resurfacing along SR A1A/Collins Avenue from north of 42nd Street to south of 44th Street and along 43rd Street from SR A1A/Collins Avenue to SR A1A/Indian Creek Drive. The pre-existing drainage system consisted of an SR A1A/Indian Creek Drive/Collins Avenue 42nd Street to 44th Street & Along 43rd Street. undersized gravity storm sewer system that was found to be substandard in capacity to provide an adequate drainage to these three blocks along SR A1A/Collins Avenue. Ribbeck Engineering, Inc. was the Drainage Engineer of Record.

Pump Station and Stormwater System Details

The project drainage scope included the construction of a 36-inch stormsewer trunk-line and a 12,000 GPM stormwater pump station system west of SR A1A/Indian Creek Drive (right adjacent to the creek) at the 43rd Street intersection. For this project our team initiated the concept of having a drainage system with water tight pipes. The water tight pipes allowed the permanent pool of water to be below the ground water level with the benefits of providing storage for the optimum pumps running time, and also to prevent anaerobic condition typical of submerged pipe systems.

Marlins Ballpark Stormwater Pump Station Upgrades Project



Project Owner: City of Miami Public Works Department



Design Fee \$220K
Construction Fee \$5M



Project Length
N/A



PM: Claude Delorme
(305) 626-7401



Design Dates:
8/2009 - 1/2012

Project Overview

The City of Miami Public Works Department owns, operates and maintains a total of ten (10) existing stormwater pump stations providing drainage to different low-lying depressed areas with the City limits. The City's pump station facility located at northeast corner of NW 7th Street and NW 17th Place (previously known as the Orange Bowl pump station) provides drainage to the roadway facilities located in the proximity of the new Marlins Ballpark. Due to the Ballpark construction a need to upgrade the flood protection level of service of the surrounding roadway facilities to current standards was brought up by Miami-Dade County. Therefore, the Marlins in coordination with the City of Miami Public Works funded the cost to upgrade the existing pump station facility from 30,000 gallon per minute to 50,000 gallon per minute in capacity. Ribbeck Engineering, Inc. was contracted by the Miami Marlins as the project Engineer of Record and provide engineering services to design all pertinent upgrades to the existing pump station facility.

Pump Station and Stormwater System Details

The project design scope included adding a new 20,000 gallon per minute pump to the facility and all the necessary incidental structural, electrical and mechanical modifications and improvement to the pump station building. The project also included the construction of a new 36-inch forcemain, new pollution control structure, new outfall structure, cleaning the existing injection wells, adding new injection wells, and incidental modifications to the Lawrence Canal seawall. Aside of the improvements at the pump station, the existing collection system of gravity pipes and exfiltration trenches was EPOXY lined to reduce the groundwater infiltration to near zero value. This improvement allowed the frequencies of "ON" and "OFF" cycle of the pumps to be reduced to once a day instead of the half an hour cycle from before improvements.





TAB D

ORGANIZATIONAL PROFILE AND PROJECT TEAM QUALIFICATIONS

Organizational Chart

Legend

(Years of Experience) % Availability



PROJECT MANAGER

Carlos Ribbeck, PE (40) 90% REI

QA/QC MANAGER

Hans Ribbeck, PE, MSEM, IMSA I (21) 90% REI

CONSTRUCTABILITY REVIEW

Francis Mitchell, PE, MS, CGC (40) 75% REI

SUPPORTING SERVICES

ROADWAY

Hans Ribbeck, PE, IMSA I (21) 90% REI
Josef Ricardo, PE (8) 90% REI

DRAINAGE

Carlos Ribbeck, PE (40) 90% REI
Francis Mitchell, PE, MS (40) 75% REI
Georgio Tachiev, PE (33) 65% REI
Javier Veliz, EI (16) 90% REI
Elmer Rodriguez (8) 90% REI

MEP

Mariana Evora, PE (10) 90% DEL
Thalia Isla (2) 90% DEL

TRAFFIC CONTROL

Maher Maaliki, PE (24) 90% REI
Doribel Ortiz, EI (3) 90% REI

STRUCTURES

Oscar Cruz, PE (24) 75% CHR
Jorge Canales, PE (49) 75% CHR

DESIGNERS

Victor Linares (44) 80% REI
Horacio Lopez (17) 90% REI

PUMP STATION DESIGN

Carlos Ribbeck, PE (40) 90% REI
Francis Mitchell, PE, MS (37) 75% REI

SPM

Johanna Ribbeck, PE (20) 90% REI
Luciana Casalino, EI (8) 90% REI

PUBLIC OUTREACH

Heather Leslie (26) 90% HML

GEOTECHNICAL

Hernando Ramos, PE (40) 80% HRE

UTILITY COORDINATION

Luis Aguiar (40) 80% DEL

SIGNALIZATION

Hans Ribbeck, PE, IMSA I (21) 90% REI
Luis Rodriguez, IMSA I (13) 90% REI

ENVIRONMENTAL

John Abott, PG, CEP (30) 75% WGI
Amanda Montgomery, PWS (10) 75% WGI

SURVEY AND SUE

Eduardo Suarez, PSM (41) 75% LON
Greg Bouie, PSM (19) 75% LON



Availability of Proposed Key Staff

Our team carefully analyzed the scope of work and selected key personnel with the right blend of technical expertise, capabilities, and availability to successfully deliver this important project. As evidenced by the resumes and organizational chart submitted with this technical proposal, our staffing plan exceeds the required minimum experience and have additional preferred experience on similar pump station projects. Through this experience, our key staff has gained first-hand knowledge of local conditions, design standards, local permitting requirements, stakeholder and public outreach concerns, multi-agency coordination needs, general contracting practices, and construction methodologies specific to pump station projects. Our team's tenure on these projects has yielded an invaluable work relationship with local regulatory agencies based on trust, quality, and responsiveness, while delivering cost-effective solutions.

Key Project Staff

Carlos Ribbeck, PE (90% Available) REI



Project Manager

Carlos has over 40 years of transportation engineering design/management experience with emphasis in roadway and drainage design, stormwater master planning, environmental permitting and surveying. He has successfully completed projects for a variety of local agencies such as Miami-Dade County Public Works Department, the Florida Department of Transportation, Greater Miami Expressway Authority, City of Miami Beach, South Florida Water Management District and Army Corps of Engineers. His experience ranges from the development of PD&E studies and Request for Proposal packages to the final design and delivery of high-profile projects. In the last decade, Carlos has been at the forefront of flood mitigation projects and coastal projects. Mr. Ribbeck has served as the Project Manager for multiple Drainage Districtwide Contracts in FDOT District 6.

Francis Mitchell, PE, MS, CGC (80% Available) REI



Stormwater/Drainage Engineer

Francis has 40 years of experience in roadway design, drainage and hydraulic modeling, structural design, pump station design, permitting, and municipal work. He has successfully designed and completed 250+ projects for Miami-Dade County, FDOT, FTE, City of Miami, City of Miami Beach and several other entities. Francis was the Assistant Director of the City of Miami Public Works Department for seven years prior to joining REI in 2011. His experience in the City included overseeing the design and construction of a variety of drainage projects; he was also responsible for the City's Public Works Department inspection, maintenance, and operations activities. Francis has also served as the senior drainage engineer responsible for the design of a variety of FDOT flood mitigation projects.

Hans Ribbeck, PE, MSEM, IMSA I (85% Available) REI



QA/QC Manager & Roadway Engineer

Hans has over 20 years of experience successfully delivering highway projects within South Florida. His management and design experience encompass a wide range of projects, such as design-builds, reconstruction projects, RRR projects, and intersection improvement projects. Since joining Ribbeck Engineering in 2013, Hans has been the Engineer of Record for over 30 design projects. His design capabilities include roadway geometric design, signing and pavement marking, drainage design, signalization design, traffic control plans, scheduling, plans production, project coordination, plans review, cost estimates, client relationship, utility coordination, and RFP development.

Maher Maaliki, PE (85% Available) REI



Traffic Control Plans

Maher has 23 years of experience in the design, plans production, coordination and management of transportation projects throughout FDOT Districts 4, 5, 6, and 7, Miami-Dade Expressway Authority, Florida Turnpike Enterprise, Miami-Dade County, PennDOT and Pennsylvania Turnpike Commission. Mr. Maaliki has served as the Contract Manager for the FDOT District 4 Districtwide, the SR A1A – Indian Creek Drive Sea Level Mitigation Project, several FDOT RRR Projects in FDOT D7, D4 and D6, as well as the Engineer of Record (EOR) of limited facility projects such as I-595 and a Segment of I-4, swiftly delivering projects on schedule and within budget. His capabilities include Roadway Geometric Design, SPM, Drainage Design, TCP, Plans Production, Project Coordination, Plans Review, Cost Estimates, Client Relationships, Utility Coordination & RFP Development.

Johanna Ribbeck, PE (85% Available) REI



Signing and Pavement Marking Engineer

Johanna has over 18 years of experience in the design, plans production, coordination and management of transportation projects. Her experience includes roadway geometric design, signing and pavement marking, drainage design, traffic control plans, plans production, project coordination, plans review, cost estimates, client relationship, utility coordination and RFP development. She has been the EOR of several roadway and signing and pavement markings projects and was the Deputy Project Manager overseeing the GMX portion of the SR 836/I-395/I-95 interchange project, on behalf of GMX.

Mariana Evora, PE (85% Available) DELTA



Lead MEP Engineer

Mariana has over 10 years of project management experience on fields of water resources and environmental engineering, and served as consultant, project manager, and design engineer in numerous multidisciplinary projects. Her

technical expertise includes stormwater planning and project implementation, analysis and design of best management practices, design and construction of pump stations and pipelines, design criteria manuals and permitting, development of capital improvement plans, establishing stormwater utilities. Mrs. Evora's experience also includes planning and design of water transmission and distribution systems and sanitary sewer collection and transmission systems.

Oscar Cruz, PE (85% Available) CHR



Structures Engineer

Oscar has over 24 years of design and inspection experience including new bridges, replacement bridges, and widenings for concrete and steel structures. His expertise includes preparing construction documents for bridge rehabilitation projects, including crack

injections, spall repairs, expansion joint replacements, and fender replacements. His experience includes additional structural design, retaining walls (MSE and CIP), critical sheet pile walls sound barrier walls, FDOT Tri-Chord sign structures (Cantilever, Butterfly, and Span), ITS structures, mast arms, strain poles, light poles, box culverts, corrugated pipe culverts, misc. steel structures and traffic-railing retrofits as well as bridge load ratings. Mr. Cruz's experience includes the design of water control structures, drainage pump stations, the analysis of existing concrete stormwater pump stations, steel cofferdams, concrete pads for tank installations, and various structural design tasks for water and sewer facilities. Post design experience includes responses to RFI's, Shop Drawing reviews as well as Construction Inspections including QA/QC.

Luis Aguiar (65% Available) DELTA



Utility Coordinator

Luis has over 48 years of experience. He successfully managed the Miami-Dade Water and Sewer Department - one of the largest water and sewer utilities in the Country – from an operational and capital perspective. Mr. Aguiar played critical roles negotiating and implementing multiple consent decrees. During his tenure he was responsible for the Department's Water Treatment, Water Distribution, Sewage Collection, Pump Station Maintenance, and Meter Divisions, with annual budgets of more than \$100 million and over 800 employees. In addition to his operational experience, he managed several large programs for the utility, including: the Infiltration/Inflow Reduction program and the Pump Station Improvement Program.

Eduardo Suarez, PSM (60% Available) LON



Survey

Eduardo has over 40 years of experience leading the SUE and Survey team. Recognized for his exceptional leadership, technical proficiency, and commitment to delivering top-tier surveying services, he has successfully navigated complex projects in

diverse sectors, including commercial, residential, transportation and infrastructure developments. Having established a reputation for quality, integrity, and client satisfaction, Eddie has built and nurtured strong professional relationships. His collaborative approach ensures seamless coordination between multidisciplinary teams, driving projects toward successful outcomes. With a keen eye for detail and a passion for precision, he orchestrates the team's efforts with unwavering dedication.

Hernando Ramos, PE (75% Available) HRES



Geotechnical Engineer

Hernando has over 40 years of experience with transportation, industrial, ports, civil and projects. His experience includes design, planning, execution of new geotechnical projects and the remedial procedures to

correct foundation problems of existing structures, extensive involvement with axial and lateral pile analyses, slope stability evaluation on retaining walls and embankment projects using geosynthetic reinforcement. Other specialties include design of numerous retaining wall types such as mechanically stabilized earth, reinforced concrete, sheet pile cantilever and anchored walls.

John Abbott, PG, CEP (85% Available) WGI



Environmental Engineer

John has over 40 years of diverse experience in environmental consulting, including contamination remediation, wetland mitigation, wildlife surveys, environmental planning, NEPA, and

permitting. John is active in local environmental issues – he is a key volunteer for Adopt-a-Dune projects at the Dr. Von D. Mizell-Eula Johnson State Park in Hollywood.

Heather Leslie (50% Available) HML



Public Outreach



Heather has 24 years of experience working on multiple major public infrastructure projects. She has extensive experience working with the City of Miami Beach, Key Biscayne, FDOT, Miami-Dade County and numerous municipalities in

South Florida. With over 14 years leading HML, she has been successfully executing projects at all phases, including planning, PD&E, design, design-build, and construction. Heather has a deep understanding of the engineering processes at each stage, the role it plays in the local transportation system and economy, and the products and services it provides.

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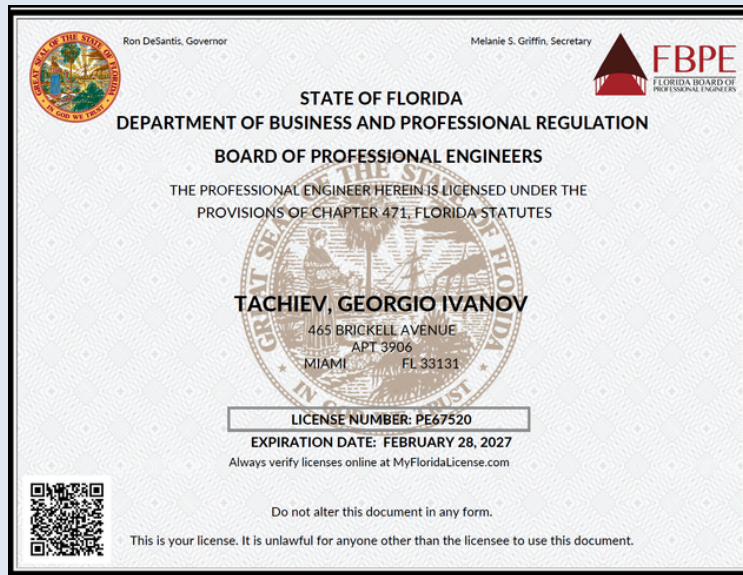
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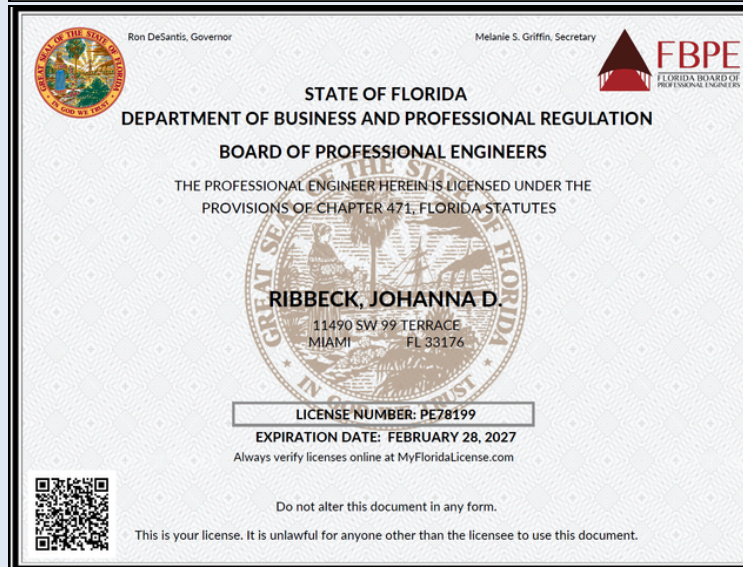
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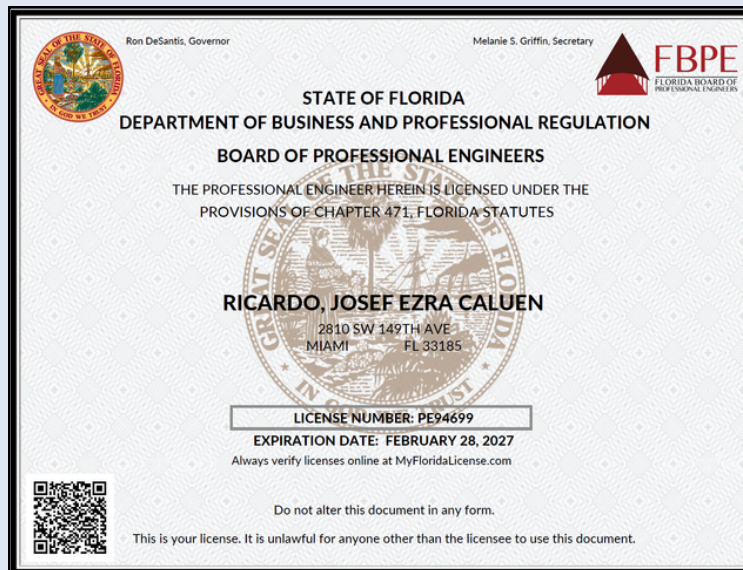
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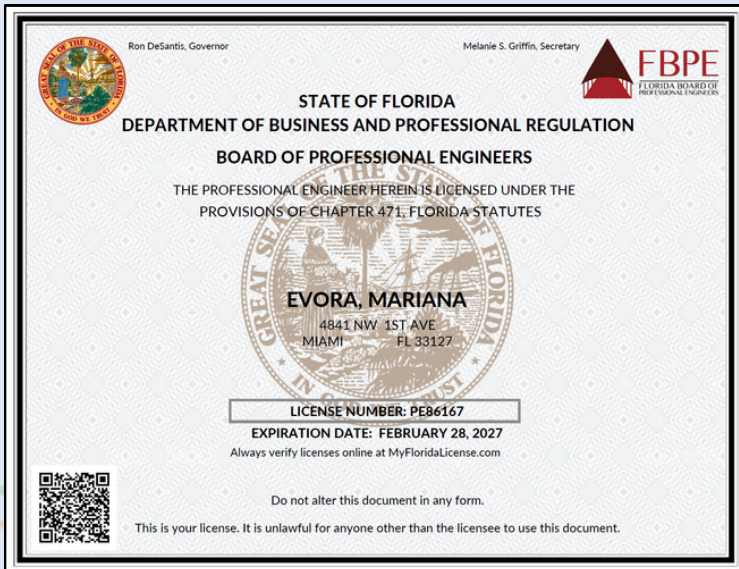
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Delta

HRES



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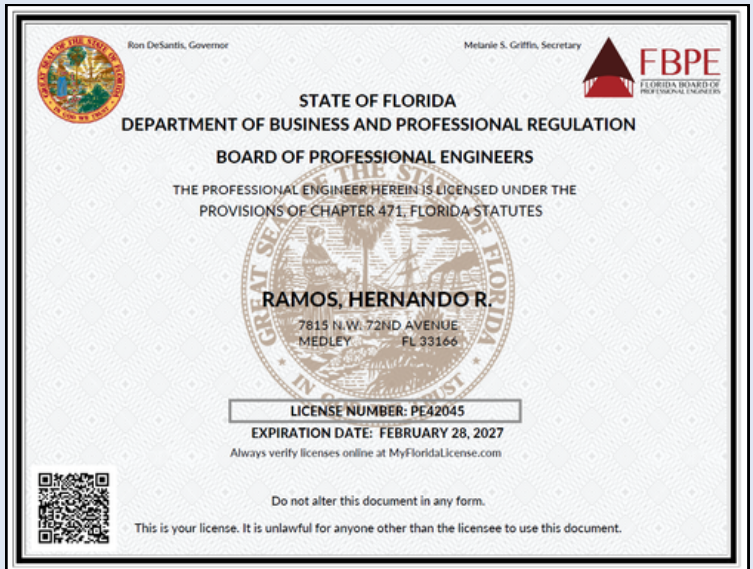
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Longitude Surveyors



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500
800HELPLFA(435-7352) or (850) 488-2221

February 28, 2025

EDUARDO M SUAREZ
7700 N KENDALL DR STE 705
MIAMI, FL 33156-7591


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SUBJECT: Professional Surveyor and Mapper License # LS6313
Your application / renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2027.

You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/pstn to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.




Florida Department of Agriculture and Consumer Services
Board of Professional Surveyors and Mappers

LS6313
Professional Surveyor and Mapper
EDUARDO M SUAREZ

IS LICENSED under the provisions of Ch. 472 FS
Expiration date: February 28, 2027

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

License No.: **LS6313**
Expiration Date: February 28, 2027


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

EDUARDO M SUAREZ
7700 N KENDALL DR STE 705
MIAMI, FL 33156-7591



WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

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January 29, 2025

GREG D BOUIE
7230 MCARTHUR PKWY
HOLLYWOOD, FL 33024-7123


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If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.




Florida Department of Agriculture and Consumer Services
Board of Professional Surveyors and Mappers

LS7169
Professional Surveyor and Mapper
GREG D BOUIE

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Expiration date: February 28, 2027

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

License No.: **LS7169**
Expiration Date: February 28, 2027

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Under the provisions of Chapter 472, Florida Statutes


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WGI




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STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

PG2401
PROFESSIONAL GEOLOGIST
ABBOTT, JOHN CHARLES
WGI, INC.

ISSUED: 06/17/2024

Signature
LICENSED UNDER CHAPTER 492, FLORIDA STATUTES
EXPIRATION DATE: JULY 31, 2026


Ron DeSantis, Governor Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

LICENSE NUMBER: PG2401 **EXPIRATION DATE: JULY 31, 2026**

THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

ABBOTT, JOHN CHARLES
WGI, INC.
5437 NW 106TH DR
CORAL SPRINGS FL 33076



ISSUED: 06/17/2024 Always verify licenses online at MyFloridaLicense.com

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Carlos Ribbeck, PE

PROJECT MANAGER | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, Cleveland State University, Cleveland, OH | 1987

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 50543 – 10/2000

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 40 years of experience

EMPLOYMENT HISTORY

SH & Associates – Project Engineer/Chief Surveyor *June 1986 – May 1993*

PBS&J – Lead Roadway & Drainage Design Engineer *May 1993 – May 2006*

EAC Consulting, Inc. – Chief Drainage Engineer *May 2006 – December 2007*

Ribbeck Engineering, Inc. – Principal In-Charge *January 2008 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Carlos Ribbeck, PE has 40 years of transportation engineering design and management experience with emphasis in roadway and drainage design, stormwater master planning, environmental permitting and surveying. He has successfully completed projects for a variety of local agencies such as Miami-Dade County Public Works Department, the Florida Department of Transportation, Greater Miami Expressway Authority (formally MDX), City of Miami Beach, South Florida Water Management District and Army Corps of Engineers. His experience ranges from the development of PD&E studies and Request for Proposal packages to the final design and delivery of high-profile projects. In the last decade, Carlos has been at the forefront of Sea Level Rise Flood mitigation and coastal projects. Mr. Ribbeck is the Principal in Charge of Ribbeck Engineering and has served as the Project Manager/EOR for Multiple Districtwide Contracts in FDOT District 6.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Project Engineer of Record responsible for the roadway and drainage design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive. Scope included raising the roadway profile of 2.5-ft. to a minimum roadway elevation of 3.7'-NAVD, as per City of Miami Beach Ordinance to mitigate King Tide and sea level rise effect, design of a new 1-mile long 72" stormwater SRPE (Duromax®) trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, incidental roadway drainage improvements, 1-mile of seawall reconstruction with greenway, 3 new signalized intersections, new lighting system, and signing and pavement markings with overhead structures. The project required new sidewalks and harmonization of over 30 adjacent properties. Responsibilities included contract management, project coordination, preparation of design documentation, permitting, stakeholder coordination, and extensive post-design services during construction. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

SR A1A/Indian Creek Drive/Collins Avenue from 42 Street to 44 Street & Along 43 Street Flood Mitigation Project | FM 427505-2

Drainage EOR in charge of design of drainage improvements and a 12,000 GPM pump station to upgrade existing substandard system within a flood-prone segment of Collins Ave. & Indian Creek Drive at 43rd Street in the City of Miami Beach. *FDOT D6, 5/12 – 2/15, Design Fee: \$200K, Construction Cost: \$7M, PM: Ana Arvelo, PE | (305) 470-5210, Ana.Arvelo@dot.state.fl.us*

SR 907/Alton Road Reconstruction from Michigan Avenue to 43rd Street, 43 Street to Surprise Waterway, Surprise Waterway to 56 Street, 56 Street to Allison Road Segments 1, 3 & 4 | FM 429193-1, FM 430444-1, 430444-3, 430444-4

Drainage EOR for the reconstruction of 2.6 miles of roadway, including 84" and 96" drainage main trunk systems, drainage improvements, seawall improvements and construction of four (4) new pump stations, 100,000 GPM each with bi-fueled emergency generator. *FDOT D6, 10/14 – Pres., Design Fee: \$2.8M, Construction Cost: \$70M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

Roosevelt Blvd/Truman Ave/Eisenhower Dr/Jose Marti Dr Intersection Flood Mitigation | City of Key West

Lead Drainage Engineer in charge of developing drainage feasibility study and concept plans to provide flood mitigation. The improvements included reconstructing and raising the intersection from 0.5' to 1.5', seawall improvements to raise the cap and the construction of a new stormwater pump station (16,000 GPM) system. *FDOT D6, 1/23 – 5/23, Design Fee: \$200K, Construction Cost: \$9M, PM: Nathan Pulido, PE | (305) 470-5264, Nathaniel.Pulido@dot.state.fl.us*

SR A1A/S. Roosevelt Boulevard Reconstruction Project from Bertha St. to end of Smathers Beach | City of Key West

Lead Drainage Engineer in charge of developing drainage feasibility study (DFS) and concept plans for 1-mile roadway reconstruction FDOT project. The DFS evaluated different options such as; French drain system, gravity drainage well system and a system of storm sewers, pump station (10,000 GPM) with injection wells and a special overflow structure into the Salt Pond. The DFS recommended the use of a pump station system as the most hydraulically effective system to provide flood protection to the roadway facility. *FDOT D6, 2/20 – 3/22, Design Fee: \$180K, Construction Cost: \$6M, PM: Nathan Pulido, PE | (305) 470-5264, Nathaniel.Pulido@dot.state.fl.us*

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Senior Drainage Engineer for the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City's Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

North Beach Town Center (North Shore D) Neighborhood Improvements

Drainage EOR for a priority flood-mitigation project focused on hardening and revitalizing aging infrastructure and elevating roadways within the North Shore D Neighborhood. Scope included the design and permitting of a comprehensive stormwater system consisting of large-diameter trunk lines, injection wells, pollution-control structures, filtration units, new outfall structures, and pump stations; the design and permitting of new water mains and sanitary sewer systems; roadway and sidewalk elevations; harmonization of adjacent private properties; design of incidental improvements such as traffic signals, lighting, striping, and signage, public outreach and community engagement, utility coordination; and landscaping. *City of Miami Beach, 10/25 – Pres., CA: \$7.6M, PM: Omar Mendoza, PE | (305) 673-7080, omarmendoza@miamibeachfl.gov*

SR 826/Palmetto Expressway Reconstruction Segments 1, 3, & 4 | FM 435760

Drainage EOR in charge of drainage improvements along 4-miles of the Palmetto Expressway Reconstruction including the reconfiguration of 6 Interchanges. Responsibilities included predevelopment vs post-development hydraulic analysis as part of project's BHR for 2-mile of modifications (sheet pile wall construction & canal dredging), canal culvert enclosures and several bridge replacements over the C-8 and Peters Pike Canals. *FDOT D6, 12/17 – 6/20, Design Fee: \$1,7M, Construction Cost: \$380M, PM: Raul Quintela, PE | (305) 470-5100, Raul.Quintela@dot.state.fl.us*

Biscayne Boulevard at NE 10th Street Pump Station | FM 443911-1

Drainage Engineer of Record in charge of the drainage improvements for Biscayne Boulevard at the NE 10th Street Pump Station project. Scope included the design of drainage improvements and upgrades to the existing FDOT stormwater pump station located at SR 5/Biscayne Boulevard and NE 10th Street. The upgrades consist mainly of replacing the existing dual 5,700 GPM submersible pumps with two new pumps, 8,000 GPM each. *FDOT D6, 1/22 – 12/25, CA: \$200K, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*

Design-Build Services for East Flagami Flood Mitigation Improvements | 40-B223801

Mr. Ribbeck serves as the Drainage Engineer of Record for this high priority flood mitigation project which includes new drainage system with a new stormwater pump station at NW 37th Avenue and NW 3rd Street, roadway reconstruction, new signage and pavement markings and water betterments. The City approved Ribbeck Engineering's Value Engineering which eliminates 5,000-feet of force main, 1 mile of roadway restoration, watermain relocations, 10 injection wells, and the outfall connection by providing a French drain and forcemain interconnected system. *City of Miami, 8/25 – Pres., CA: \$2M, PM: Carolina Zamora | (305) 416-1184, CZamora@miamigov.com*



Francis Mitchell, PE, MS, CGC

LEAD STORMWATER ENGINEER | Availability 85%



- EDUCATION** Bachelor of Science Civil Engineering, 1985 University of Miami, Miami, FL
Master of Science Civil Engineering, 1987 University of Miami, Miami, FL
- PROFESSIONAL REGISTRATIONS** Professional Engineer, State of Florida, License No. 44747 – 8/1991
General Contractor, State of Florida, License No. N0701190002 – 1/2007
- PROFESSIONAL TRAININGS** 3D Modeling Roadway FDOT 3 Day Training – Nov 2020
- YEARS OF EXPERIENCE** 40 years of experience

PUBLICATIONS

Chin, David A., and Mitchell, Francis, 1986, "[A Methodology for the Automatic Design of Sanitary Sewer Systems,](#)" Proceedings of the Fourth National Conference on Microcomputers in Civil Engineering, University of Central Florida, Orlando, FL.

Mitchell Francis, and Chin, David A. 1987, "[A Numerical Model of Buoyant - Jet Surface Wave Interaction,](#)" Development of a numerical model related to the effect of waves on ocean outfall performance. This research sponsored by the Engineering Foundation received the 1989 ASCE Collingwood Prize. Technical Memorandum No Cen-87-1.

Mitchell Francis, 2001, "[Numerical Model for the Hydraulic and Hydrologic Analysis of Underground Exfiltration Trenches,](#)" Miami, FL.

EMPLOYMENT HISTORY

SH & Associates – Project Engineer/Chief Surveyor *June 1986 – May 1993,*
David Volkert & Assoc. – Lead Roadway Engineer *1987 – 1993*
Beiswenger, Hoch & Associates – Sr. Design Engineer *1993 – 1998* and Sr. Drainage Engineer *2000 – 2003*
Reynolds, Smith & Hills, Inc. – Senior Drainage Engineer *1998 – 2000*
City of Miami Public Works Department Assistant Director *2003 – 2010*
Ribbeck Engineering Inc. – Senior Drainage Engineer *2010 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Francis Mitchell, PE has 40 years of experience in roadway geometric design, highway drainage modeling, pump station design, hydraulic and hydrology modeling, permitting and municipal work. He has successfully designed and completed several transportation projects for Miami-Dade County, Florida Department of Transportation, Florida Turnpike, City of Miami, and several other entities. Mr. Mitchell served the Assistant Director of the City of Miami for 7 years prior to joining Ribbeck Engineering.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Senior Drainage Engineer responsible for the roadway and drainage design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive. Scope included raising the roadway profile of 2.5-ft. to a minimum roadway elevation of 3.7'-NAVD, as per City of Miami Beach Ordinance to mitigate King Tide and sea level rise effect, design of a new 1-mile long 72" stormwater SRPE (Duromax®) trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, incidental roadway drainage improvements, 1-mile of seawall reconstruction with greenway, 3 new signalized intersections, new lighting system, and signing and pavement markings with overhead structures. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

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Roosevelt Blvd/Truman Ave/Eisenhower Dr/Jose Marti Dr Intersection Flood Mitigation | City of Key West

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SR A1A/S. Roosevelt Boulevard Reconstruction Project from Bertha St. to end of Smathers Beach | City of Key West

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Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

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North Beach Town Center (North Shore D) Neighborhood Improvements

Senior Drainage Engineer for a priority flood-mitigation project focused on hardening and revitalizing aging infrastructure and elevating roadways within the North Shore D Neighborhood. Scope included the design and permitting of a comprehensive stormwater system consisting of large-diameter trunk lines, injection wells, pollution-control structures, filtration units, new outfall structures, and pump stations; the design and permitting of new water mains and sanitary sewer systems; roadway and sidewalk elevations; harmonization of adjacent private properties; design of incidental improvements such as traffic signals, lighting, striping, and signage, public outreach and community engagement, utility coordination; and landscaping. *City of Miami Beach, 10/25 – Pres., CA: \$7.6M, PM: Omar Mendoza, PE | (305) 673-7080, omarmendoza@miamibeachfl.gov*

Biscayne Boulevard at NE 10th Street Pump Station | FM 443911-1

Senior Drainage Engineer responsible for drainage improvements of Biscayne Boulevard at the NE 10th Street Pump Station project. Scope included the design of drainage improvements and upgrades to existing FDOT stormwater pump station located at SR 5/Biscayne Boulevard and NE 10th Street. Upgrades include replacing existing dual 5,700 GPM submersible pumps with two new pumps, 8,000 GPM each. *FDOT D6, 1/22 – 12/25, CA: \$200K, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*

Marlins Ballpark Stormwater Pump Station Upgrades Project

The Miami Marlins, in coordination with the City, funded an expansion increasing pump capacity from 30,000 to 50,000 GPM. Ribbeck Engineering, Inc. served as EOR, designing the addition of a 20,000 GPM pump and associated structural, electrical, and mechanical upgrades, along with a new 36-inch forcemain, pollution control structure, outfall, injection well improvements, and canal seawall modifications. The gravity collection system was epoxy-lined to eliminate groundwater infiltration, reducing pump cycling from every 30 minutes to once daily. Mr. Mitchell served as the Senior Drainage Engineer for this contract. *City of Miami Public Works, 8/2009 – 1/2012, CA: \$220K, PM: Claude Delorme | (305) 626-7401, Cdelorme@marlins.com*

Districtwide Drainage Design & Plans Review Contract | FM 411433-2

REI is the Prime consultant for this TWO driven districtwide contract. REI was awarded this contract for 3 consecutive terms (5 years each). Mr. Mitchell is a Senior Drainage Engineer providing plans review, FDOT in-house drainage design support, and plans for emergency pushbutton TOWs. Responsibilities includes drainage analysis, design, and preparing construction plans. The contract's analysis and design component include conducting drainage feasibility studies, bridge hydraulic reports, specialized drainage services such as pump station design, 2D tidal hydraulic analysis, coastal engineering and complex stormwater modeling. *FDOT D6, 1/23 – 5/23, CA: \$4.6M, PM: Nathan Pulido, PE | (305) 470-5264, Nathaniel.Pulido@dot.state.fl.us*



Maher Maaliki, PE

TEMPORARY TRAFFIC CONTROL ENGINEER | Availability 90%



- EDUCATION** Bachelor of Science Civil Engineering, 2001 University of Miami, Miami, FL
Master of Science Architecture Engineering, 2001 University of Miami, Miami, FL
- PROFESSIONAL REGISTRATIONS** Professional Engineer, State of Florida, License No. 66597 – 6/2007
Certified ATTSA Florida Advanced Traffic Control
- PROFESSIONAL TRAININGS** 3D Modeling Roadway FDOT 3 Day Training – Nov 2020
- YEARS OF EXPERIENCE** 24 years of experience

EMPLOYMENT HISTORY

- DMJM Harris / AECOM** – Intern *December 2000 – August 2001*
- AECOM** – Lead Project Engineer *August 2001 – October 2013*
- Jacobs Engineering Inc.** – Project Manager *September 2013 – April 2017*
- Ribbeck Engineering, Inc.** – Project Manager *April 2017 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Maher Maaliki, PE, has 24 years of experience in the design, plans production, coordination and management of transportation projects throughout FDOT Districts 4, 5, 6, and 7, Miami-Dade Expressway Authority, Florida Turnpike Enterprise, Miami-Dade County, PennDOT and Pennsylvania Turnpike Commission. Mr. Maaliki served as the Contract Manager for the FDOT District 4 Districtwide, the SR A1A - Indian Creek Drive Sea Level Mitigation Project, several FDOT RRR Projects in FDOT D7, D4 and D6, as well as the Engineer of Record of limited facility projects such as I-595 and a Segment of I-4, delivering projects on schedule and within budget. His capabilities include Roadway Geometric Design, SPM, Drainage Design, TCP, Plans Production, Project Coordination, Plans Review, Cost Estimates, Client Relationships, Utility Coordination and RFP Development.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | **FM 439228-2**

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Deputy Project Manager responsible for the roadway design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive to raise the roadway profile an average of 2.5-ft., design of a 1-mile long 72” stormwater SRPE trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, roadway drainage, seawall reconstruction with greenway, 3 new signalized intersections, lighting system, S&PM with overhead structures, sidewalks and harmonization of 30 properties. Responsibilities included contract management, project coordination, preparation of design documentation, permitting, stakeholder coordination, and extensive post-design services during construction. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

ALT US 19/SR 595 Pinellas Avenue from South of Curlew PL to North of Country Club Ct | **FM 437710-1**

Project Manager and Lead Roadway Engineer responsible for widening the roadway along SR 595 from south of Curlew Place to North of Country Club (0.122 miles). Scope includes widening roadway to provide left turn lanes at two intersections, changing the section from open shoulder to curb and gutter, adjusting the profile to provide ADA cross walks at the intersections, correcting substandard cross slopes, replacing the entire drainage system, re-shaping the adjacent receiving ponds to accept additional flow from due to the widening, upgrading all sidewalk and curb ramps, and signing and pavement markings. *FDOT D7, 12/21 – Present, Design Fee: \$592K, Construction Cost: \$4.5M, PM: Eyra Cash, PE | (813) 975-6164, Eyra.Cash@dot.state.fl.us*

SR 688/Walsingham Road from SR 699/Gulf BLVD to East of Indian Rocks Road/Oakhurst Road | **FM 441654-1**

Project Manager responsible for 1.2 miles of roadway rehabilitation along SR 688. Scope includes milling & resurfacing, cross slope correction, widening to provide turn lane offsets, curb return radius reduction to slow down traffic, lighting analysis/upgrade, signalization, miscellaneous structures, and SPM. *FDOT D7, 3/23 – Present, Design Fee: \$1M, Construction Cost: \$7.5M, PM: Anh-Thu Nguyen, PE | (813) 975-6197, Anh-Thu.Nguyen@dot.state.fl.us*

Design-Build Services for East Flagami Flood Mitigation Improvements | **40-B223801**

Mr. Maaliki serves as the Roadway Engineer of Record for this high priority flood mitigation project which includes new drainage system with a new stormwater pump station at NW 37th Avenue and NW 3rd Street, roadway reconstruction, new signage and pavement markings and water betterments. The City approved Ribbeck Engineering's Value Engineering which eliminates 5,000-feet of force main, 1 mile of roadway restoration, watermain relocations, 10 injection wells, and the outfall connection by providing a French drain and forcemain interconnected system. *City of Miami, 8/25 – Pres., CA: \$2M, PM: Carolina Zamora | (305) 416-1184, CZamora@miamigov.com*

North Beach Town Center (North Shore D) Neighborhood Improvements

Project Manager and Roadway EOR for a priority flood-mitigation project focused on hardening and revitalizing aging infrastructure and elevating roadways within the North Shore D Neighborhood. Scope included the design and permitting of a comprehensive stormwater system consisting of large-diameter trunk lines, injection wells, pollution-control structures, filtration units, new outfall structures, and pump stations; the design and permitting of new water mains and sanitary sewer systems; roadway and sidewalk elevations; harmonization of adjacent private properties; design of incidental improvements such as traffic signals, lighting, striping, and signage, public outreach and community engagement, utility coordination; and landscaping. *City of Miami Beach, 10/25 – Pres., CA: \$7.6M, PM: Omar Mendoza, PE | (305) 673-7080, omarmendoza@miamibeachfl.gov*

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Roadway Engineer of Record for the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City's Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

SR 925/NW 3 Court & NW 3 Ave from NW 1 ST to NW 8 ST & Connecting Ramps to I-95 | FM 429300-4

Project Manager and EOR responsible for the design and contract document detailing for the RRR improvements of 1.3 miles of roadway in Downtown Miami, including incidental drainage, partial roadway reconstruction, SPM and 12 signalized intersections. Scope included the addition of green colored pavement for bicycle lanes, high-emphasis crosswalks, and Wrong Way Signing for the ramps from I-95. *FDOT D6, 7/17 – 5/21, Design Fee: \$1.1M, Construction Cost: \$5.4M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

SR 934/NW 74 Street From West 4 Avenue to E 4 Avenue | FM 443909-1

Senior Engineer assisting for the RRR improvements along SR 934/NW 74 Street/E 21 Street within the City of Hialeah. The improvements include the milling and resurfacing of 1.1 miles of roadway, SPM, upgrades to ADA features, drainage, signal and lighting at five (5) intersections. In addition, a safety sequence is part of the scope to implement new mast arms at Palm Ave. *FDOT D6, 2/22 – Pres., Design Fee \$520K, Construction Cost: \$5.3M, PM: Auraliz Benitez, PE | (305) 470-5471, Auraliz.Benitez@dot.state.fl.us*

SW 137 Avenue from SW 8 Street to SW 26 Street GMX 83618-009.020

Senior Roadway Engineer assisting with the design and plans production for the widening improvements along SW 137th Avenue. Responsibilities include providing roadway, drainage, signing and pavement markings and signalization improvements for the widening improvements along SW 137th Avenue between SW 8th Street and SW 26th Street. The scope of work includes the addition of a third 11' travel lane along the eastbound and westbound of SW 137th Avenue by reducing the existing median width to 26'. The scope also includes the upgrade of the drainage system due to the additional impervious area, upgrades to SPM, lighting, pedestrian features and the addition of signal mast arms to control the additional lanes at SW 11th Street and SW 18th Street. *GMX, 4/23 – Pres., CA: \$1M, PM: Gil Portela, PE | (305) 551-8100, gportela@HNTB.com*

SR 5/US 1 from North of SE Fischer Street to North of SE Decker Avenue | FM 447649-1

Senior Engineer assisting with the 1.9 miles of roadway rehabilitation along SR 5 in Martin County. Scope includes milling and resurfacing, minor widening to accommodate key holes, cross slope correction through overbuild, ADA improvements, upgrading SPM, installing special emphasis crosswalk markings, provide bicycle keyholes, as well as signalization and lighting improvements at 5 intersections. *FDOT D4, 3/22 – Pres., CA: \$900K, PM: Helen James, PE | (954) 777-4346, Helen.James@dot.state.fl.us*

SR 5/OVERSEAS HIGHWAY FROM MM 32.98 TO MM 36.57 | FM 443895-1

Deputy Project Manager and Lead Senior Roadway Engineer responsible for 3.6 miles of roadway rehabilitation along SR 5. Scope includes milling and resurfacing (M&R), shoulder restoration, cross slope correction, Florida Keys Overseas Heritage Trail restoration, upgrading guardrail, and upgrading all Signing and Pavement Markings (SPM). *FDOT D6, 2/20 – 3/22, CA: \$520K, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*



Hans Ribbeck, PE, MSEM, IMSA I

QA/QC MANAGER/LEAD ROADWAY ENGINEER | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, 2004 Florida International University, Miami, FL
Master of Science Engineering Management, 2011 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 70964 – 2/2010
Certified ATTSA Florida Advanced Traffic Control,
Certified IMSA I Traffic Signal Inspector

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 21 years of experience

EMPLOYMENT HISTORY

R.J. Behar & Company, Inc. – Project Engineer *June 2002 – June 2011*

H.W. Lochner, Inc. – Project Manager/Lead Project Engineer *June 2011 – February 2013*

Ribbeck Engineering, Inc. – Project Manager/Senior Engineer *February 2013 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Hans Ribbeck, PE, will serve as Lead Roadway Engineer and exceeds the minimum five (5) years engineering experience providing design services for similar projects. Since joining REI in 2013, Hans has been the Engineer of Record for over 30 design projects. Mr. Ribbeck is equal parts technical and managerial. For 20 years, Hans has successfully managed and designed a variety of highway projects including Design-Builds, Reconstruction Projects, RRR Projects and Intersection Improvement Projects. His design capabilities include Roadway Geometric Design for major and minor highways, Signing and Pavement Marking, Drainage Design, Signalization Design, Traffic Control Plans (Levels 1, 2 & 3), Plans Production, Project Coordination, Plans Review, Cost Estimates, Client relationship, Utility Coordination, and RFP Development.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Lead Roadway Engineer responsible for the roadway design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive to raise the roadway profile an average of 2.5-ft., design of a 1-mile long 72" stormwater SRPE trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, roadway drainage, seawall reconstruction with greenway, 3 new signalized intersections, lighting system, S&PM with overhead structures, sidewalks and harmonization of 30 properties. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

SR 9336/SW 392 Street/Ingraham Highway From Everglades National Park to SW 192 Avenue | FM 445987-1

Project Manager and Roadway Engineer of Record responsible for 5.1 miles of roadway rehabilitation along the high-speed rural facility of SR 9336. Scope includes milling and resurfacing, 10-ft shoulder widening, cross slope and superelevation correction through overbuild, new drainage system composed of retention swales and French drain systems; providing new sidewalk at suburban segment, upgrading guardrail, installing bullet railing on 3 bridges, upgrading SPM, installing special emphasis crosswalk markings and relocating existing crosswalks. This project has a 3D ORD Model delivery for 5.1 miles of roadway widening and new swales. *FDOT D6, 2/21 – 12/22, Design Fee: \$1.4M, Construction Cost: \$8.4M, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*

SR 925/NW 3 Court & NW 3 Ave from NW 1 ST to NW 8 ST & Connecting Ramps to I-95 | FM 429300-4

Project Manager and EOR responsible for the design and contract document detailing for the RRR improvements of 1.3 miles of roadway in Downtown Miami, including incidental drainage, partial roadway reconstruction, SPM and 12 signalized intersections. Scope included the addition of green colored pavement for bicycle lanes, high-emphasis crosswalks, and Wrong Way Signing for the ramps from I-95. *FDOT D6, 7/17 – 5/21, Design Fee: \$1.1M, Construction Cost: \$5.4M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

SR 972/Coral Way/SW 3 Avenue From W. of SW 12 Avenue to E. of Brickell Avenue E | FM 445998-1

Project Manager and Roadway EOR responsible of the design for the RRR improvements along Coral Way. The project scope includes milling and resurfacing, roadway widening, drainage upgrades, signal and lighting retrofits, as well as providing bike lane facilities from SW 17 Avenue to Brickell Avenue including a new Urban Path that will connect the roundabout at SW 15 Road with the Underline. *FDOT D6, 12/21 – Pres., Design Fee: \$1M, Construction Cost: \$9.8M, PM: Claudia Gutierrez, PE | (305) 470-5268, Claudia.Gutierrez@dot.state.fl.us*

SR 90/SW 8 Street from SW 74 Court to SW 57 Avenue | FM 443919-1

Project Manager and Roadway EOR responsible for the design and contract document detailing for the RRR improvements of 1.7 miles along Historic Road, including ADA improvements, SPM, incidental drainage, and 6 signalized intersections. Scope includes developing Historic Memos and conducting a Public Hearing to get concurrence from SHPO and Commissioners. *FDOT D6, 3/20 – 5/22, Design Fee: \$1.1M, Construction Cost: \$8M, PM: Jose Barrera, PE | (305) 470-5331, Jose.Barrera@dot.state.fl.us*

North Beach Town Center (North Shore D) Neighborhood Improvements

Contract Manager for a priority flood-mitigation project focused on hardening and revitalizing aging infrastructure and elevating roadways within the North Shore D Neighborhood. Scope included the design and permitting of a comprehensive stormwater system consisting of large-diameter trunk lines, injection wells, pollution-control structures, filtration units, new outfall structures, and pump stations; the design and permitting of new water mains and sanitary sewer systems; roadway and sidewalk elevations; harmonization of adjacent private properties; design of incidental improvements such as traffic signals, lighting, striping, and signage, public outreach and community engagement, utility coordination; and landscaping. *City of Miami Beach, 10/25 – Pres., CA: \$7.6M, PM: Omar Mendoza, PE | (305) 673-7080, omarmendoza@miamibeachfl.gov*

SW 137 Avenue from SW 8 Street to SW 26 Street GMX 83618-009.020

Project Manager and Engineer of Record assisting with the design and plans production for the widening improvements along SW 137th Avenue. Responsibilities include providing roadway, drainage, signing and pavement markings and signalization improvements for the widening improvements along SW 137th Avenue between SW 8th Street and SW 26th Street. The scope of work includes the addition of a third 11' travel lane along the eastbound and westbound of SW 137th Avenue by reducing the existing median width to 26'. The scope also includes the upgrade of the drainage system due to the additional impervious area, upgrades to SPM, lighting, pedestrian features and the addition of signal mast arms to control the additional lanes at SW 11th Street and SW 18th Street. *GMX, 4/23 – Pres., CA: \$1M, PM: Gil Portela, PE | (305) 551-8100, gportela@HNTB.com*

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Project Manager for the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City's Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

SR 7/US 441 Southbound Ramp from NW 2 Avenue (MP 0.096) to Turnpike Connector Bridge (MP 0.687) | FM 425637-2

Project Manager and Engineer of Record responsible for the design and plans production for the RRR improvements along SR 7/US 441 Ramp within the Golden Glades Interchange, including roadway plans, traffic control plans (TCP) Level 2, five (5) design variations, pavement design and typical section packages, as well as Signing and Pavement Markings (SPM) plans. *FDOT D6, 7/17 – 6/19, CA: \$350K, PM: Jason Chang, PE | (786) 757-0061, jchang@bcceng.com*

SR 934/NW 74 Street From West 4 Avenue to E 4 Avenue | FM 443909-1

Project Manager and Roadway EOR Responsible for the RRR improvements along SR 934/NW 74 Street/E 21 Street within the City of Hialeah. The improvements include the milling and resurfacing of 1.1 miles of roadway, SPM, upgrades to ADA features, drainage, signal and lighting at five (5) intersections. In addition, a safety sequence is part of the scope to implement new mast arms at Palm Ave. *FDOT D6, 2/22 – Pres., Design Fee \$520K, Construction Cost: \$5.3M, PM: Auraliz Benitez, PE | (305) 470-5471, Auraliz.Benitez@dot.state.fl.us*

SR 5/US 1 from North of SE Fischer St to North of SE Decker Ave | FM 447649-1

Project Manager and Roadway Engineer of Record (EOR) responsible for 1.9 miles of roadway rehabilitation along SR 5 in Martin County. Scope includes milling and resurfacing, minor widening to accommodate key holes, cross slope correction through overbuild, ADA improvements, upgrading SPM, installing special emphasis crosswalk markings, provide bicycle keyholes, as well as signalization and lighting improvements at 5 intersections. *FDOT D4, 3/22 – Pres., CA: \$900K, PM: Helen James, PE | (954) 777-4346, Helen.James@dot.state.fl.us*



Johanna Ribbeck, PE

SPM Engineer of Record | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, 2006 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 78199 – 2/2014

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 20 years of experience

EMPLOYMENT HISTORY

AECOM – Project Engineer *January 2006 – December 2011*

H.W. Lochner, Inc. – Project Engineer *December 2011 – April 2013*

ADA Engineering, Inc. – Project Manager *April 2013 – June 2014*

Ribbeck Engineering, Inc. – Project Manager/Senior Roadway Engineer *January 2014 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Mrs. Johanna Ribbeck, PE has over 18 years of experience in the design, plans production, coordination and management of transportation projects from FDOT Districts 4, 6 and 7; Miami-Dade Expressway Authority, Miami-Dade County, City of Miami, as well as Florida Turnpike Enterprise. Her experience includes Roadway Geometric Design, SPM, Drainage Design, TCP, Plans Production, Project Coordination, Plans Review, Cost Estimates, Client relationship, Utility Coordination and RFP Development.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Senior Roadway Engineer assisting with the design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive to raise the roadway profile an average of 2.5-ft., design of a 1-mile long 72" stormwater SRPE trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, roadway drainage, seawall reconstruction with greenway, 3 new signalized intersections, lighting system, S&PM with overhead structures, sidewalks and harmonization of 30 properties. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

SW 137 Avenue from SW 8 Street to SW 26 Street | GMX 83618-009.020

Senior Roadway Engineer assisting with the design and plans production for the widening improvements along SW 137th Avenue. Responsibilities include providing roadway, drainage, SPM and signalization improvements for the widening improvements along SW 137th Avenue between SW 8th Street and SW 26th Street. Scope includes the addition of a third 11' travel lane along the eastbound and westbound of SW 137th Avenue by reducing existing median width to 26'. The scope also includes upgrading the drainage system for the additional impervious area, upgrades to SPM, lighting, pedestrian features and the addition of signal mast arms to control the additional lanes at SW 11th Street and SW 18th Street. *Greater Miami Expressway Agency, 4/23 – Pres., Design Fee: \$1M, Construction Cost: \$11M PM: Gil Portela, PE | (305) 551-8100, gportela@HNTB.com*

SR 836 Interchange Improvements from NW 17 Avenue to Midtown Interchange (SR 836/I-395/I-95) | GMX 83611-001.102

Mrs. Ribbeck is the Deputy Project Manager responsible for the coordination, management, and plans review for the GMX portion of the SR 836/I-395/I-95 interchange Improvement Project (FPID 423126-1-52-01). Her duties during the conceptual phase included the preparation of Design Exceptions and Variations, Typical Section Package, Request for Proposal Package, support in geometric design and the NEPA re-evaluation of the conceptual plans for final design, and coordination for Right-of-Way acquisition. Mrs. Ribbeck reviewed all ATCs for SR 836 and the final technical proposal during procurement. *Greater Miami Expressway Agency, 7/14 – Pres., Design Fee: \$950K, Construction Cost: \$802M, PM: Gil Portela, PE | (305) 551-8100, Gportela@hntb.com*

SR 5/Overseas Highway from MM 32.98 TO MM 36.57 | FM 443895-1

Signing and Pavement Markings Engineer of Record responsible for 3.6 miles of roadway rehabilitation along the high-speed rural facility, Overseas Highway. Scope includes milling and resurfacing, shoulder restoration, cross slope correction, Florida Keys Overseas Heritage Trail restoration, upgrading guardrail, and upgrading all Signing and Pavement Markings. *FDOT D6, 2/20 – 3/22, Design Fee: \$603K, Construction Cost: \$4.5M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

SR 90/SW 8 Street from SW 74 Court to SW 57 Avenue | FM 443919-1

Signing and Pavement Markings Engineer of Record responsible for the design and contract document detailing for the RRR improvements of 1.7 miles along Historic Road, including ADA improvements, SPM, incidental drainage, and 6 signalized intersections. Scope includes developing Historic Memos and conducting a Public Hearing to get concurrence from SHPO and Commissioners. *FDOT D6, 3/20 – 5/22, Design Fee: \$1.1M, Construction Cost: \$8M, PM: Jose Barrera, PE | (305) 470-5331, Jose.Barrera@dot.state.fl.us*

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Signing and Pavement Marking EOR for the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City's Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

North Beach Town Center (North Shore D) Neighborhood Improvements

Signing and Pavement Marking EOR for a priority flood-mitigation project focused on hardening and revitalizing aging infrastructure and elevating roadways within the North Shore D Neighborhood. Scope included the design and permitting of a comprehensive stormwater system consisting of large-diameter trunk lines, injection wells, pollution-control structures, filtration units, new outfall structures, and pump stations; the design and permitting of new water mains and sanitary sewer systems; roadway and sidewalk elevations; harmonization of adjacent private properties; design of incidental improvements such as traffic signals, lighting, striping, and signage, public outreach and community engagement, utility coordination; and landscaping. *City of Miami Beach, 10/25 – Pres., CA: \$7.6M, PM: Omar Mendoza, PE | (305) 673-7080, omarmendoza@miamibeachfl.gov*

SR 5/US 1 from North of SE Fischer Street to North of SE Decker Avenue | FM 447649-1

Senior Engineer assisting with the 1.9 miles of roadway rehabilitation along SR 5 in Martin County. Scope includes milling and resurfacing, minor widening to accommodate key holes, cross slope correction through overbuild, ADA improvements, upgrading SPM, installing special emphasis crosswalk markings, provide bicycle keyholes, as well as signalization and lighting improvements at 5 intersections. *FDOT D4, 3/22 – Pres., CA: \$900K, PM: Helen James, PE | (954) 777-4346, Helen.James@dot.state.fl.us*

SR 9336/SW 392 Street/Ingraham Highway from Everglades National Park to SW 192 Avenue | FM 445987-1

Roadway Senior Engineer responsible for the design of 5.1 miles of roadway rehabilitation along high-speed rural facility SR 9336. Scope includes M&R, 10-ft shoulder widening, cross slope and superelevation correction through overbuild, new drainage system composed of retention swales and French drain systems; provided new sidewalk at suburban segment, extended a connection for Everglades Trail, upgraded guardrail, installed bullet railing on 3 bridges, upgraded SPM installing special emphasis crosswalk markings and relocating existing crosswalks. This project has a 3D ORD Model delivery for 5.1 miles of roadway widening and new swales. *FDOT D6, 2/21 – 12/22, CA: \$1.4M, PM: Andres Castineiras, PE | (305) 640-7524, Andres.Castineiras@dot.state.fl.us*

SR 934/NW 74 STREET FROM W 4 AVE. TO E 4 AVE. | FM 443909-1

Senior Engineer assisting with the RRR improvements along SR 934/NW 74 Street/E 21 Street within the City of Hialeah. The improvements include the milling and resurfacing of 1.1 miles of roadway, signing and pavement markings (SPM), upgrades to ADA features, drainage, signal and lighting at five (5) intersections. In addition, a safety sequence is part of the scope to implement new mast arms at Palm Ave. *FDOT D6, 2/22 – Pres., CA: \$520K, PM: Auraliz Benitez, PE | (305) 470-5471, Auraliz.Benitez@dot.state.fl.us*

SR 972/CORAL WAY/SW 3 AVENUE FROM W. OF SW 12 AVENUE TO E. OF BRICKELL AVENUE | FM 445998-1

Senior Engineer assisting in the design for the RRR improvements along Coral Way. The project scope includes analyzing bike lane addition from SW 17 Avenue to Brickell Avenue by Bike lanes would tie-into new-Urban Path along the proposed roundabout at SW 15 Road. *FDOT D6, 12/21 – Pres., CA: \$950K, PM: Andres Castineiras, PE | (305) 640-7524, Andres.Castineiras@dot.state.fl.us*

SR 9/NW 27 Avenue from NW 39 Street to NW 79 Street | FM 429185-2

Project Engineer responsible for the RRR improvements of 2.5 miles of roadway, including incidental drainage, partial roadway reconstruction, SPM and 10 signalized intersections. Scope also included extensive coordination with Miami-Dade Transit due to Metro Rail along median, as well as securing an MDT Permit. *FDOT D6, 2/19 – 3/21, CA: \$1.1M, PM: Bao-Ying Wang, PE | (305) 470-5211, Bao.Ying@dot.state.fl.us*



Josef Ezra Ricardo, PE
Project Engineer | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, 2017 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 94699 – 8/2022

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 8 years of experience

EMPLOYMENT HISTORY

Ribbeck Engineering, Inc. – Project Engineer November 2016 – Present

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Josef Ezra Ricardo, PE has over 8 years of experience in utility coordination, as well as in the design and plans production of transportation projects from FDOT District 4, 6, and 7, Miami-Dade County, as well as City of Miami Beach. Mr. Ricardo developed multiple 3D templates for proposed shoulders and swales in order to assemble the ORD 3D model of over 5.1 miles of roadway improvements. His experience includes Roadway Geometric Design, Signing and Pavement Marking, Signalization and Plans Production, 3D Modeling and ORD.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Engineering Intern assisting with the roadway design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive with the purpose of raising the roadway profile an average of 2.5-ft., design of a 1-mile long 72" stormwater SRPE trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, roadway drainage, seawall reconstruction with greenway, 3 new signalized intersections, lighting system, S&PM with overhead structures, sidewalks and harmonization of 30 properties. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

ALT US 19/SR 595 PINELLAS AVE FROM SOUTH OF CURLEW PL TO NORTH OF COUNTRY CLUB CT | FM 437710-1

Project Engineer responsible for the widening of the roadway along SR 595 from south of Curlew Place to North of Country Club (0.122 miles). Scope includes widening the roadway to provide left turn lanes at two intersections, changing the section from open shoulder to curb and gutter, adjusting the profile to provide ADA cross walks at the intersections, correcting substandard cross slopes, replacing the entire drainage system, re-shaping the adjacent receiving ponds to accept additional flow from due to the widening, upgrading all sidewalk and curb ramps, and SPM. *FDOT D7, 12/21 – Present, Design Fee: \$592K, Construction Cost: \$4.5M, PM: Eyra Cash, PE | (813) 975-6164, Eyra.Cash@dot.state.fl.us*

SR 9336/SW 392 STREET/INGRAHAM HIGHWAY FROM EVERGLADES NATIONAL PARK TO SW 192 AVENUE | FM 445987-1

Project Engineer and Utility Coordinator assisting with the 5.1 miles of roadway rehabilitation along the high-speed rural facility of SR 9336. Scope includes M&R, 10-ft shoulder widening, cross slope and superelevation correction, new drainage system composed of retention swales and French drain systems; provide new sidewalk at suburban segment, upgrade guardrail, install bullet railing on 3 bridges; upgrade all sub-standard ground-mounted signs; replace pavement markings; install special emphasis crosswalk markings & relocate existing crosswalks. This project has a 3D ORD Model delivery for 5.1 miles of roadway widening and new swales. *FDOT D6, 2/21 – 12/22, Design Fee: \$1.4M, Construction Cost: \$8.4M, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*

SR 5/Overseas Highway from MM 32.98 TO MM 36.57 | FM 443895-1

Project Engineer responsible for 3.6 miles of roadway rehabilitation along the high-speed rural facility, Overseas Highway. Scope includes milling and resurfacing, shoulder restoration, cross slope correction, Florida Keys Overseas Heritage Trail restoration, upgrading guardrail, and upgrading all Signing and Pavement Markings. *FDOT D6, 2/20 – 3/22, Design Fee: \$603K, Construction Cost: \$4.5M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

SR 90/SW 8 Street from SW 74 Court to SW 57 Avenue | FM 443919-1

Project Engineer assisting for the design and contract document detailing for the RRR improvements of 1.7 miles along Historic Road, including ADA improvements, SPM, incidental drainage, and 6 signalized intersections. Scope includes developing Historic Memos and conducting a Public Hearing to get concurrence from SHPO and Commissioners. *FDOT D6, 3/20 – 5/22, Design Fee: \$1.1M, Construction Cost: \$8M, PM: Jose Barrera, PE | (305) 470-5331, Jose.Barrera@dot.state.fl.us*



Georgio Tachiev, PhD, PE

Senior Drainage Engineer | Availability 65%



EDUCATION Bachelor of Science Civil Engineering, 1985 University of Architecture, Master of Science Chemical Engineering, 1997 Vanderbilt University, Nashville, TN Doctor of Philosophy in Water Resources & Environmental Engineering, 1998 “

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 66597 – 6/2007 Certified ATTSA Florida Advanced Traffic Control

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 33 years of experience

PUBLICATIONS

"[Modeling the impact of restoration efforts on phosphorus loading and transport through Everglades National Park](#)" FL, USA Stephanie A. Longa, Georgio I. Tachiev, Robert Fennema, Amy M. Cook, Michael C. Sukop, Fernando Miralles-Wilhelm, Science of the Total Environment, 520 (2015), 81-95

EMPLOYMENT HISTORY

Florida International University – Program Manager, Applied Research Center and Affiliated Faculty 2003 – 2014
Ribbeck Engineering, Inc. – Senior Water Resource Engineer *January 2014 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Dr. Georgio Tachiev, PE has over 33 years in the development and operation of water resources and environmental engineering programs. His experience includes the modeling and development of complex numerical models for analysis of remediation strategies, environmental and water resources management, coastal engineering including 2D tidal hydraulics modeling, coastal management, shoreline protection and erosion control and automation of GIS technologies. Dr. Tachiev has an expert level of knowledge in using state of the practice models including: ICPR V3 & V4, MODFLOW, HEC-RAS, XPSWWM, SWWM, MIKE SHE/11, MIKE 21, MIKE 3, MIKE URBAN, Infoworks CS and WS, EPANET, SEAWAT, MT3DS, and ARCGIS.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Senior Drainage Engineer assisting with the roadway and drainage design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive. Scope included raising the roadway profile of 2.5-ft. to a minimum roadway elevation of 3.7'-NAVD, as per City of Miami Beach Ordinance to mitigate King Tide and sea level rise effect, design of a new 1-mile long 72" stormwater SRPE (Duromax®) trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, incidental roadway drainage improvements, 1-mile of seawall reconstruction with greenway, 3 new signalized intersections, new lighting system, and signing and pavement markings with overhead structures. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

Districtwide Drainage Design & Plans Review Contract | FM 411433-2

REI is the Prime consultant for this TWO driven districtwide contract. REI was awarded this contract for 3 consecutive terms (5 years each). Mr. Tachiev is a Senior Drainage Engineer providing plans review, FDOT in-house drainage design support, and plans for emergency pushbutton TWOs. Responsibilities includes drainage analysis, design, and preparing construction plans. The contract's analysis and design component include conducting drainage feasibility studies, bridge hydraulic reports, specialized drainage services such as pump station design, 2D tidal hydraulic analysis, coastal engineering and complex stormwater modeling. *FDOT D6, 1/23 – 5/23, CA: \$4.6M, PM: Nathan Pulido, PE | (305) 470-5264, Nathaniel.Pulido@dot.state.fl.us*

SR 823/NW 57th Avenue/Red Road Reconstruction from SR 25/US 27/Okeechobee Road to SR 826/Palmetto Expressway – Red Road Canal Modifications USACE Section 408 Permitting

Senior Drainage Engineer responsible for the pre and post-development hydrologic and hydraulic modeling of Red Road Canal modifications. Scope included 4-miles of canal dredge and fill activities, canal sheet pile construction, bridge widening and replacement and culvert extension and replacement. The analysis was conducted in XPSWMM, required by USACE as part of Section 408 permitting. *FDOT D6, Design Fee: \$230K, Construction Cost: N/A, PM: Ricardo Salazar, PE | (786) 445-6138, Ricardo.Salazar@dot.state.fl.us*



Javier Veliz, EI

Engineering Intern | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, 2009 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 1100015112

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 16 years of experience

EMPLOYMENT HISTORY

EAC Consulting, Inc. – Engineering Technician & CADD Drafting Specialist *March 2006 – May 2008*

American Traffic Solutions – Project Engineer *May 2008 – December 2009*

Ribbeck Engineering, Inc. – Drainage Engineer *September 2014 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Javier Veliz, EI has over 16 years of experience in plans production and design/analysis with various FDOT Districts, including District 1,4,6, and 7, MDX and City of Miami projects. His experience includes roadway, drainage and pump station design, Traffic Control Plans, Signing and Pavement Markings, Cost Estimates and Utility Coordination. He is proficient in numerous design/analysis software which includes: Microstation, Geopak, Open Roads, FDOT Connect, AutoCAD, Civil 3D, ICPR, HEC-RAS/HEC-RMS, ASAD, Bentley Drainage Suites (FlowMaster, CulvertMaster, StormCAD, and Water/Sewer Gems) as well as office production software (Adobe Photoshop & PDF, and Microsoft Office Works).

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Drainage Engineer assisting for the roadway and drainage design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive. Scope included raising the roadway profile of 2.5-ft. to a minimum roadway elevation of 3.7'-NAVD, as per City of Miami Beach Ordinance to mitigate King Tide and sea level rise effect, design of a new 1-mile long 72" stormwater SRPE (Duromax®) trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, incidental roadway drainage improvements, 1-mile of seawall reconstruction with greenway, 3 new signalized intersections, new lighting system, and signing and pavement markings with overhead structures. The project required new sidewalks and harmonization of over 30 adjacent properties. Responsibilities included contract management, project coordination, preparation of design documentation, permitting, stakeholder coordination, and extensive post-design services during construction. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

FDOT D4 Districtwide Minor Projects Design Consultants | FM 440454-3

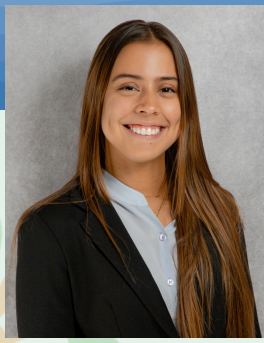
Ribbeck Engineering is the Prime consultant for this TWO driven districtwide contract. Mr. Veliz is a Project Engineer assisting with the multiple TWO's along various corridors in District 4. Responsibilities included providing drainage analysis and drainage plans, preparing and submitting PIF, and completing PRM for all TWOs. This contract is financially capped. *FDOT D4, 8/20 – Pres., CA: \$1.5M, PM: Thuc Le, PE | (954) 777-4552, Thuc.Lee@dot.state.fl.us*

SR 907/Alton Road Reconstruction from Michigan Avenue to 43rd Street, 43 Street to Surprise Waterway, Surprise Waterway to 56 Street, 56 Street to Allison Road Segments 1, 3 & 4 | FM 429193-1, FM 430444-1, 430444-3, 430444-4

Drainage Engineer assisting for the reconstruction of 2.6 miles of roadway, including 84" and 96" drainage main trunk systems, drainage improvements, seawall improvements and construction of four (4) new pump stations, 100,000 GPM each with bi-fueled emergency generator. *FDOT D6, 10/14 – Pres., Design Fee: \$2.8M, Construction Cost: \$70M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

Districtwide Drainage Design & Plans Review Contract | FM 411433-2

REI is the Prime consultant for this TWO driven districtwide contract. REI was awarded this contract for 3 consecutive terms (5 years each). Mr. Veliz is a Drainage Engineer assisting with plans reviews, FDOT in-house drainage design support, and plans for emergency pushbutton TWOs. Responsibilities includes drainage analysis, design, and preparing construction plans. The contract's analysis and design component include conducting drainage feasibility studies, bridge hydraulic reports, specialized drainage services such as pump station design, 2D tidal hydraulic analysis, coastal engineering and complex stormwater modeling. *FDOT D6, 1/23 – 5/23, CA: \$4.6M, PM: Nathan Pulido, PE | (305) 470-5264, Nathaniel.Pulido@dot.state.fl.us*



Doribel Ortiz, EI
Engineering Intern | Availability 95%



EDUCATION Bachelor of Science Civil Engineering, 2022 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 1100026441 - 03/2022

YEARS OF EXPERIENCE 3 years of experience

EMPLOYMENT HISTORY

Ribbeck Engineering, Inc. – Project Engineer *September 2021 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Ms. Doribel Ortiz, EI has over 3 years of professional experience in the design and plans production of transportation projects from FDOT District 6, and Miami-Dade County. Her experience includes Roadway Geometric Design, Signing and Pavement Marking and Plans Production. Ms. Ortiz is also proficient in ORD 3D Modeling.

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Project Engineer assisting with the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City’s Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

SR 5/US 1 from North of SE Fischer Street to North of SE Decker Avenue | FM 447649-1

Project Engineer assisting with the roadway components of 1.9 miles of roadway rehabilitation along SR 5 in Martin County. Scope includes M&R, minor widening for key holes, cross slope correction through overbuild, ADA improvements, upgrading SPM, installing special emphasis crosswalk markings, provide bicycle keyholes, as well as signalization and lighting improvements at 5 intersections. *FDOT D4, 3/22 – Pres., CA: \$900K, PM: Helen James, PE | (954) 777-4346, Helen.James@dot.state.fl.us*

ALT US 19/SR 595 PINELLAS AVE FROM SOUTH OF CURLEW PL TO NORTH OF COUNTRY CLUB CT | FM 437710-1

Engineering Intern assisting with the widening of the roadway along SR 595 from south of Curlew Place to North of Country Club (0.122 miles). Scope includes widening the roadway to provide left turn lanes at two intersections, changing the section from open shoulder to curb and gutter, adjusting the profile to provide ADA cross walks at the intersections, correcting substandard cross slopes, replacing the entire drainage system, re-shaping the adjacent receiving ponds to accept additional flow from due to the widening, upgrading all sidewalk and curb ramps, and SPM. *FDOT D7, 12/21 – Present, Design Fee: \$592K, Construction Cost: \$4.5M, PM: Eyra Cash, PE | (813) 975-6164, Eyra.Cash@dot.state.fl.us*

SR 9336/SW 392 STREET/INGRAHAM HIGHWAY FROM EVERGLADES NATIONAL PARK TO SW 192 AVENUE | FM 445987-1

Engineering Intern assisting with the 5.1 miles of roadway rehabilitation along the high-speed rural facility of SR 9336. Scope includes M&R, 10-ft shoulder widening, cross slope and superelevation correction, new drainage system composed of retention swales and French drain systems; provide new sidewalk at suburban segment, upgrade guardrail, install bullet railing on 3 bridges; upgrade all sub-standard ground-mounted signs; replace pavement markings; install special emphasis crosswalk markings & relocate existing crosswalks. This project has a 3D ORD Model delivery for 5.1 miles of roadway widening and new swales. *FDOT D6, 2/21 – 12/22, Design Fee: \$1.4M, Construction Cost: \$8.4M, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*

SR 5/Overseas Highway from MM 32.98 TO MM 36.57 | FM 443895-1

Project Engineer assisting with the 3.6 miles of roadway rehabilitation along the high-speed rural facility, Overseas Highway. Scope includes milling and resurfacing, shoulder restoration, cross slope correction, Florida Keys Overseas Heritage Trail restoration, upgrading guardrail, and upgrading all Signing and Pavement Markings. *FDOT D6, 2/20 – 3/22, Design Fee: \$603K, Construction Cost: \$4.5M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*



Luciana Casalino, EI
Engineering Intern | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, 2017 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Professional Engineer, State of Florida, License No. 1100021089 - 03/2018

YEARS OF EXPERIENCE 8 years of experience

EMPLOYMENT HISTORY

Ribbeck Engineering, Inc. – Engineering Intern June – August 2016 and March – June 2017

City of Newton – Assistant Office Engineer November 2017 – March 2018

Stantec – Civil Engineer April 2018 – August 2019, **Kimley Horn & Associates** – Civil Analyst September 2019 – September 2020

Ribbeck Engineering, Inc. – Project Engineer March 2020 – Present

PROFESSIONAL AND PROJECT EXPERIENCE

Ms. Luciana Casalino, EI has over 8 years of experience in the design and plans production of transportation projects from FDOT District 6, Miami-Dade County, as well as MassDOT and City of Boston. Her experience includes Roadway Geometric Design, Signing and Pavement Marking and Plans Production. Ms. Casalino is fully proficient in ORD 3D Modeling.

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Project Engineer assisting with the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City’s Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

SR 5/US 1 from North of SE Fischer Street to North of SE Decker Avenue | FM 447649-1

Project Engineer assisting with the roadway components of 1.9 miles of roadway rehabilitation along SR 5 in Martin County. Scope includes M&R, minor widening for key holes, cross slope correction through overbuild, ADA improvements, upgrading SPM, installing special emphasis crosswalk markings, provide bicycle keyholes, as well as signalization and lighting improvements at 5 intersections. *FDOT D4, 3/22 – Pres., CA: \$900K, PM: Helen James, PE | (954) 777-4346, Helen.James@dot.state.fl.us*

ALT US 19/SR 595 Pinellas Avenue from South of Curlew PL to North of Country Club CT | FM 437710-1

Engineering Intern assisting with roadway widening along SR 595 from south of Curlew Place to North of Country Club (0.122 miles). Scope includes widening roadway to provide left turn lanes at two intersections, changing the section from open shoulder to curb and gutter, adjusting profile to provide ADA cross walks at intersections, correcting substandard cross slopes, replacing drainage system, re-shaping adjacent receiving ponds to accept additional flow due to the widening, upgrading all sidewalk/curb ramps, and SPM. *FDOT D7, 12/21 – Present, Design Fee: \$592K, Construction Cost: \$4.5M, PM: Eyra Cash, PE | (813) 975-6164, Eyra.Cash@dot.state.fl.us*

SR 9336/SW 392 Street/Ingraham Highway from Everglades National Park to 192 Avenue | FM 445987-1

Engineering Intern assisting with 5.1 miles of roadway rehabilitation along high-speed rural facility SR 9336. Scope includes M&R, 10-ft shoulder widening, cross slope and superelevation correction, new drainage system composed of retention swales and French drain systems; provide new sidewalk at suburban segment, upgrade guardrail, install bullet railing on 3 bridges; upgrade all sub-standard ground-mounted signs; replace pavement markings; install special emphasis crosswalk markings & relocate existing crosswalks. This project has a 3D ORD Model delivery for 5.1 miles of roadway widening and new swales. *FDOT D6, 2/21 – 12/22, Design Fee: \$1.4M, Construction Cost: \$8.4M, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*

SR 934/NW 74 Street from W 4 Avenue to E 4 Avenue | FM 443909-1

Engineering Intern assisting with the RRR improvements along SR 934/NW 74 Street/E 21 Street within the City of Hialeah. The improvements include the milling and resurfacing of 1.1 miles of roadway, SPM, upgrades to ADA features, drainage, signal and lighting at five (5) intersections. In addition, a safety sequence is part of the scope to implement new mast arms at Palm Ave. *FDOT D6, 2/22 – Pres., CA: \$520K, PM: Auraliz Benitez, PE | (305) 470-5471, Auraliz.Benitez@dot.state.fl.us*



Elmer Rodriguez

Project Engineer | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, 2014 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Certified ATTSA Florida Advanced Traffic Control

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 8 years of experience

EMPLOYMENT HISTORY

Ribbeck Engineering, Inc. – Drainage Engineer *January 2015 – Present*

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Elmer Rodriguez has over 8 years of experience in the design and plans production of transportation projects from FDOT District 4, 6, and 7, Miami-Dade County, Miami-Dade Expressway Authority (MDX) as well as City of Miami Beach. His experience includes Roadway Geometric Design, Signing and Pavement Marking, Traffic Control Plans (Levels 1, 2 & 3) and Plans Production. Mr. Rodriguez is fully proficient with ORD 3D Modeling.

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Project Engineer assisting with the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City’s Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

SR 5/US 1 from North of SE Fischer Street to North of SE Decker Avenue | **FM 447649-1**

Project Engineer assisting with the roadway components of 1.9 miles of roadway rehabilitation along SR 5 in Martin County. Scope includes M&R, minor widening for key holes, cross slope correction through overbuild, ADA improvements, upgrading SPM, installing special emphasis crosswalk markings, provide bicycle keyholes, as well as signalization and lighting improvements at 5 intersections. *FDOT D4, 3/22 – Pres., CA: \$900K, PM: Helen James, PE | (954) 777-4346, Helen.James@dot.state.fl.us*

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | **FM 439228-2**

 **2023 ASCE Miami-Dade Branch | Sustainable Project of the Year**

Project Engineer assisting with the roadway design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive with the purpose of raising the roadway profile 2.5-ft., design of a 1-mile long 72” stormwater SRPE trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, roadway drainage, seawall reconstruction with greenway, 3 new signalized intersections, lighting system, SPM with overhead structures, sidewalks and harmonization of 30 properties. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

SR 9336/SW 392 STREET/INGRAHAM HIGHWAY FROM EVERGLADES NATIONAL PARK TO SW 192 AVENUE | **FM 445987-1**

Project Engineer assisting with the 5.1 miles of roadway rehabilitation along the high-speed rural facility of SR 9336. Scope includes M&R, 10-ft shoulder widening, cross slope and superelevation correction, new drainage system composed of retention swales and French drain systems; provide new sidewalk at suburban segment, upgrade guardrail, install bullet railing on 3 bridges; upgrade all sub-standard ground-mounted signs; replace pavement markings; install special emphasis crosswalk markings & relocate existing crosswalks. This project has a 3D ORD Model delivery for 5.1 miles of roadway widening and new swales. *FDOT D6, 2/21 – 12/22, Design Fee: \$1.4M, Construction Cost: \$8.4M, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*

SR 5/Overseas Highway from MM 32.98 TO MM 36.57 | **FM 443895-1**

Project Engineer assisting with the 3.6 miles of roadway rehabilitation along the high-speed rural facility, Overseas Highway. Scope includes milling and resurfacing, shoulder restoration, cross slope correction, Florida Keys Overseas Heritage Trail restoration, upgrading guardrail, and upgrading all Signing and Pavement Markings. *FDOT D6, 2/20 – 3/22, Design Fee: \$603K, Construction Cost: \$4.5M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*



Luis Rodriguez, IMSA I
Project Engineer | Availability 90%



EDUCATION Bachelor of Science Civil Engineering, 2012 Florida International University, Miami, FL

PROFESSIONAL REGISTRATIONS Certified ATTSA Florida Advanced Traffic Control, Certified IMSA I Traffic Signal Inspector

PROFESSIONAL TRAININGS 3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 13 years of experience

EMPLOYMENT HISTORY

A&P Consulting Transportation Engineers – Designer July 2006 – July 2009

The Corradino Group, Inc. - Engineer Intern February 2013 – February 2017

Ribbeck Engineering, Inc. – Project Engineer March 2017 – Present

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Luis Rodriguez, IMSA I has over 13 years of experience in the design and plans production of transportation projects from FDOT District 4, 6, and 7, Miami-Dade County, as well as City of Miami Beach. His experience includes Roadway Geometric Design, Signing and Pavement Marking, Traffic Control Plans (Levels 1, 2 & 3), Signalization and Plans Production. Mr. Rodriguez is fully proficient with ORD 3D Modeling.

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Project Engineer assisting with the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City’s Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

SR 934/NW 74 STREET FROM W 4 AVE. TO E 4 AVE. | FM 443909-1

Project Engineer assisting with the RRR improvements along SR 934/NW 74 Street/E 21 Street within the City of Hialeah. The improvements include the milling and resurfacing of 1.1 miles of roadway, signing and pavement markings (SPM), upgrades to ADA features, drainage, signal and lighting at five (5) intersections. In addition, a safety sequence is part of the scope to implement new mast arms at Palm Ave. *FDOT D6, 2/22 – Pres., CA: \$520K, PM: Auraliz Benitez, PE | (305) 470-5471, Auraliz.Benitez@dot.state.fl.us*

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Project Engineer assisting with the roadway design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive with the purpose of raising the roadway profile an average of 2.5-ft., design of a 1-mile long 72” stormwater SRPE trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, roadway drainage, seawall reconstruction with greenway, 3 new signalized intersections, lighting system, S&PM with overhead structures, sidewalks and harmonization of 30 properties. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

SR 9336/SW 392 STREET/INGRAHAM HIGHWAY FROM EVERGLADES NATIONAL PARK TO SW 192 AVENUE | FM 445987-1

Project Engineer assisting with the 5.1 miles of roadway rehabilitation along the high-speed rural facility of SR 9336. Scope includes M&R, 10-ft shoulder widening, cross slope and superelevation correction, new drainage system composed of retention swales and French drain systems; provide new sidewalk at suburban segment, upgrade guardrail, install bullet railing on 3 bridges; upgrade all sub-standard ground-mounted signs; replace pavement markings; install special emphasis crosswalk markings & relocate existing crosswalks. This project has a 3D ORD Model delivery for 5.1 miles of roadway widening and new swales. *FDOT D6, 2/21 – 12/22, Design Fee: \$1.4M, Construction Cost: \$8.4M, PM: Jessica Cruz, PE | (305) 470-5105, Jessica.Cruz@dot.state.fl.us*



Horacio Lopez
Senior Designer | Availability 90%

PROFESSIONAL TRAININGS Accredited Bentley
Open Roads Designer

YEARS OF EXPERIENCE 17 years of experience

EMPLOYMENT HISTORY

- CH Perez & Associates.** – Engineering Technician 2006 – 2014
- H.W. Lochner & Associates** – Roadway Designer 2014 – 2016
- Choice Engineering Consultant** – Senior Drainage Engineer 2016 – 2022
- Ribbeck Engineering, Inc.** – Project Engineer 2022 – Present

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Horacio Lopez is a committed designer with over 17 years of professional experience; managing all phases of CADD project Components, tasks related to field data collection, CADD production through preliminary, final, and post-design stages. Mr. Lopez has worked on a range of projects, such as roadway, traffic safety and operational improvement initiatives that include minor roadway improvements, RRR, signalization; channelization; the addition of turbo lanes; left-turn lanes, and crosswalks; utility relocation; median closures; and guardrail installation. Mr. Lopez is well versed with the **Department’s Design Standards, Design Manual, Basis of Estimates, Specifications, District Criteria and 3D corridor modeling.**

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Designer assisting with the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City’s Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

ALT US 19/SR 595 Pinellas Avenue from South of Curlew PL to North of Country Club Ct | FM 437710-1

Designer assisting for the widening improvements of the roadway along SR 595 from south of Curlew Place to North of Country Club (0.122 miles). Scope includes widening roadway to provide left turn lanes at two intersections, changing the section from open shoulder to curb and gutter, adjusting the profile to provide ADA cross walks at the intersections, correcting substandard cross slopes, replacing the entire drainage system, re-shaping the adjacent receiving ponds to accept additional flow from due to the widening, upgrading all sidewalk and curb ramps, and signing and pavement markings. *FDOT D7, 12/21 – Present, Design Fee: \$592K, Construction Cost: \$4.5M, PM: Eyra Cash, PE | (813) 975-6164, Eyra.Cash@dot.state.fl.us*

SR 934/NW 74 STREET FROM W 4 AVE. TO E 4 AVE. | FM 443909-1

Designer assisting with the RRR improvements along SR 934/NW 74 Street/E 21 Street within the City of Hialeah. The improvements include the milling and resurfacing of 1.1 miles of roadway, signing and pavement markings (SPM), upgrades to ADA features, drainage, signal and lighting at five (5) intersections. In addition, a safety sequence is part of the scope to implement new mast arms at Palm Ave. *FDOT D6, 2/22 – Pres., CA: \$520K, PM: Auraliz Benitez, PE | (305) 470-5471, Auraliz.Benitez@dot.state.fl.us*

SR 5/Overseas Highway from MM 32.98 TO MM 36.57 | FM 443895-1

Designer assisting with the 3.6 miles of roadway rehabilitation along the high-speed rural facility, Overseas Highway. Scope includes milling and resurfacing, shoulder restoration, cross slope correction, Florida Keys Overseas Heritage Trail restoration, upgrading guardrail, and upgrading all Signing and Pavement Markings. *FDOT D6, 2/20 – 3/22, Design Fee: \$603K, Construction Cost: \$4.5M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

Victor Linares

Senior Designer | Availability 80%

EDUCATION Associate in Arts, Pre-Architecture, 1976, Miami Dade College, Miami, FL

PROFESSIONAL TRAININGS Certified ATTSA Florida Advanced Traffic Control, NCHRP 350 Crash Testing, ADA/Accessibility Requirements for HWY Design and Pedestrians
3D Modeling Roadway FDOT 3 Day Training – Nov 2020

YEARS OF EXPERIENCE 44 years of experience

EMPLOYMENT HISTORY

Parson Brickerhoff, Inc. – MOT Designer 1992 – 2002, **Transportation Analysis, Inc.** – MOT Designer 2002 – 2004

Metric Engineering, Inc. – MOT Designer / Plans Reviewer 2004 – 2007

HNTB, Inc. – Senior Designer / Plans Reviewer 2007 – 2010

Ribbeck Engineering, Inc. – Senior Designer/Plans Reviewer September 2012 – Present

PROFESSIONAL AND PROJECT EXPERIENCE

Mr. Victor Linares has over 44 years of work experience in civil engineering design and construction inspection. His experience includes the design, plans production and plans review of transportation engineering projects, including the roadway geometry design, traffic control plans (TCP), signing and pavement markings (SPM), as well as the signalization component. He is well versed in Open Roads Designer, Microstation and Geopak softwares.

SR A1A/Indian Creek Drive from 25 Street to 41 Street Reconstruction – Sea Level Rise Mitigation Project | FM 439228-2

 2023 ASCE Miami-Dade Branch | Sustainable Project of the Year

Designer assisting for the roadway and drainage design of 1.0-mile of roadway reconstruction along SR A1A/Indian Creek Drive. Scope included raising the roadway profile of 2.5-ft. to a minimum roadway elevation of 3.7'-NAVD, as per City of Miami Beach Ordinance to mitigate King Tide and sea level rise effect, design of a new 1-mile long 72" stormwater SRPE (Duromax®) trunk-line, new 45,000 GPM pump station with emergency bi-fueled emergency generator, incidental roadway drainage improvements, 1-mile of seawall reconstruction with greenway, 3 new signalized intersections, new lighting system, and signing and pavement markings with overhead structures. The project required new sidewalks and harmonization of over 30 adjacent properties. *FDOT D6, 4/17 – 5/22, Design Fee: \$4.5, Construction Cost: \$50M, PM: Carla Dixon, PE | (305) 673-7071, Carladixon@miamibeachfl.gov*

Allapattah Flood Mitigation Improvements from NW 7 Ave to 14 Ave & NW 23 St to 31 St

Designer assisting with the neighborhood flood mitigation project consisting of 5.9 miles of reconstruction. Project scope included drainage systems upgrades (including French drains & drainage wells), roadway elevation and profile corrections, and new ADA and bicycle facilities within the C-6/Miami River watershed. Additional scope includes full design services for roadway reconstruction, drainage, water betterment, TTC, and SPM. Project included a WASD JPA for the water main upgrades of 1.5 miles of water service lines. The project implements the City's Stormwater Master Plan recommendations and is funded through the Miami Forever Bond Initiative to improve flood protection, sea level rise resiliency, and overall roadway performance. *City of Miami, 7/24 – Present, CA: \$3.5 Mil, PM: Lidia Duardo, PE | (305) 416-1020, Lduardo@miamigov.com*

ALT US 19/SR 595 Pinellas Avenue from South of Curlew PL to North of Country Club Ct | FM 437710-1

Designer assisting for the widening improvements of the roadway along SR 595 from south of Curlew Place to North of Country Club (0.122 miles). Scope includes widening roadway to provide left turn lanes at two intersections, changing the section from open shoulder to curb and gutter, adjusting the profile to provide ADA cross walks at the intersections, correcting substandard cross slopes, replacing the entire drainage system, re-shaping the adjacent receiving ponds to accept additional flow from due to the widening, upgrading all sidewalk and curb ramps, and signing and pavement markings. *FDOT D7, 12/21 – Present, Design Fee: \$592K, Construction Cost: \$4.5M, PM: Eyra Cash, PE | (813) 975-6164, Eyra.Cash@dot.state.fl.us*

SR 5/Overseas Highway from MM 32.98 TO MM 36.57 | FM 443895-1

Designer assisting with the 3.6 miles of roadway rehabilitation along the high-speed rural facility, Overseas Highway. Scope includes milling and resurfacing, shoulder restoration, cross slope correction, Florida Keys Overseas Heritage Trail restoration, upgrading guardrail, and upgrading all Signing and Pavement Markings. *FDOT D6, 2/20 – 3/22, Design Fee: \$603K, Construction Cost: \$4.5M, PM: Felix Hernandez, PE | (305) 470-5274, Felix.Hernandez@dot.state.fl.us*

PROFESSIONAL PROFILE

Years with Firm: 7



Mr. Oscar Cruz is a Senior Structural Engineer with 24 years of design and inspection experience including new bridges, replacement bridges, and widenings for concrete and steel structures. Additional structural design experience includes retaining walls (MSE and CIP), critical sheet pile walls (Cantilever and Anchored) sound barrier walls, FDOT Tri-Chord sign structures (Cantilever, Butterfly, and Span), ITS structures, mast arms, strain poles, light poles, box culverts, corrugated pipe culverts, misc. steel

structures and traffic-railing retrofits as well as bridge load ratings. Mr. Cruz's experience includes the design of water control structures, drainage pump stations, the analysis of existing concrete stormwater pump stations, steel cofferdams, concrete pads for tank installations, and various structural design tasks for water and sewer facilities. Post design experience includes responses to RFI's, Shop Drawing reviews as well as Construction Inspections including QA/QC.

Employment History

Metric Eng./SZA: 01/01-06/15
Gannett Fleming: 06/15-09/16
Pedelta: 06/16-06/17
HW Lochner: 06/17-09/18
Chrome: 09/18-Present

Professional Registrations

Florida License # 63889 (2006)

Education

BS Civil Engineering, FIU, Dec. 2000

Professional Affiliations:

Florida Engineering Society 2016

Professional Qualifications:

Temporary Traffic Control (TTC) Advanced Level, FDOT, 2024.

OpenBridge Designer (FDOT/FES) Training Forum, 2023.

REPRESENTATIVE PROJECTS

East Flagami Flood Mitigation Improvements (40-B223801) – City of Miami – 10/2025-Present – Structural Engineer of Record in charge of the preparation of plans and calculations for a cast in place concrete pump station composed of valve box, pump housing and oil water separator. Tasks included the design and details of the generator and electrical equipment pad with concrete stairs and guiderails. Tasks also include the design of a decorative 12' high perimeter wall required to enclose the proposed pump station site located at the SW corner of NW 37th Avenue and NW 3rd Street. In addition, Mr. Cruz oversees the structural design and details for the temporary steel cofferdam required to shore the deep excavation. Cofferdam elements include steel sheet pile walls, bracing walers, welded connections and concrete seal. **Contact:** Ms. Clara Sidan, PE, (305) 416-1200.

Garden District Drainage Improvements – Village of Key Biscayne, Florida – 10/2024-06/2025 – Structural Engineer of Record in charge of the preparation of plans and calculations for a cast in place concrete pump station composed of valve box, pump housing, grate box and oil water separator. Tasks included the design and details of the generator and electrical equipment pad with concrete stairs and guiderails. **Contact:** Mr. Fernando Gomez, PE (Albright Engineering), 305-300-1591.

S-933 Injection Well at the Miami-Dade WASD South District Wastewater Treatment Plant (WWTP), Miami-Dade County, FL, 06/2024-11/2024 – Mr. Cruz is the Structural Engineer of Record in charge plans and calculations for the design of reinforced concrete supports for the 24" Nominal Diameter Ductile Iron pipe for injection wells No. 18, 19 and 20 at the South District WWTP. Calculations involved the use of Bentley AutoPipe TL to determine the wind and flow force reactions. The reinforced concrete design for the pedestals followed ACI 350-20 "Code Requirements for Environmental Engineering Concrete Structures". The support design required extensive coordination with the contractor to implement adjustments during the pipe construction. The approximate length of pipe to be supported is 40' including flanged supports. **Contact:** Mr. Daryl Gangloff, Daniel O'Connell Contractors, 561-380-2524.

US-1/SR A1A/S. Roosevelt Blvd. Improvements from Bertha Street to End of Smathers Beach, Key West, FL – FDOT District 6 - American Empire Builders - 05/2023-09/2023 – Structural Engineer of Record in charge of the redesign of a 36' L x 26' W x 21' H temporary cofferdam required for the construction of the Pump Station within the project. Design tasks included the use of built-up plates for the waler beams as well as a 40" thick concrete seal. **Contact:** Mr. Tony Gonzalez, 305 - 261-9276.

Indian Creek Drive Retaining Walls; City of Miami Beach, FL, 08/2020-12/2023 - Structural EOR in charge of plans preparation for multiple retaining walls for this important improvement project along Indian Creek Drive, from 25th Street to 35th Street. Wall designs include Permanent Concrete Seawalls, Permanent Steel Sheet pile walls and temporary critical sheet pile walls designed to protect the roadway during the installation of drainage structures required along the project. Walls required special consideration due to the extremely aggressive marine environment. Other tasks included the design of traffic railing mounted decorative light poles, and pile and panel seawall. In addition, details were prepared to anchor the recently built stormwater pump station at 31st St. using concrete piles and steel rods. **Contact:** Mr. Matthew LePera, P.E., P.M.P. 305-673-7000 ext. 26828

Indian Creek Pump Station Outfall Structure Stability Analysis; David Mancini and Sons, Inc., FL – 04/19 thru 05/19 - Specialty Engineer in charge of the structural evaluation of the "as-built" condition of the outfall structure constructed as part of the pump station project at Indian Creek Canal in Miami Beach, Florida (FPID No. 439228-1-32-01) **Contact:** Mr. Christopher Lazzari, 954 895-0741.

PROFESSIONAL PROFILE

Years with Firm: 6



Mr. Canales provides technical expertise in the design and plan preparation, construction and inspection of highway structures, water treatment plans, pump stations and educational facilities. Mr. Canales has managed the structural design staff of major national design consulting firms in Illinois, Virginia, and Florida. He brings over 49 years of experience in bridge and retaining wall engineering and plan preparation, calculation of construction quantities and special provisions, construction supervision, bridge inspection and rating analysis of steel, concrete, and timber structures, and concrete box culverts. Mr. Canales has been responsible for the preparation of the scope of work, staff-hour estimates, and staffing for multiple engineering contracts. Mr. Canales has participated in structural inspection tasks including water treatment plants and pump stations. Mr. Canales is a BORA Certified Structural Plans Examiner.

Employment History

MODOT:	01/70-07/79
HNTB:	07/79-01/89
PBS&J:	01/89-09/94
HW Lochner:	10/94-04/95
M. Baker:	04/95-12/99
Cemcon:	01/00-03/03
SZA:	06/03-12/03
Avart:	12/03-11/14
Hajjar:	01/15-06/19

Professional Registrations

Florida License # 60444 (2003)

Education

BS Civil Engineering University of Missouri 1978.
 BS Building Engineering Lincoln University of Missouri 1968

REPRESENTATIVE PROJECTS

East Flagami Flood Mitigation Improvements (40-B223801) – City of Miami – 10/2025-Present – Structural Engineer in charge of the QA/QC of the plans and calculations for a cast in place concrete pump station composed of valve box, and pump housing and oil water separator. Tasks included the design and details of the generator and electrical equipment pad with concrete stairs and guiderails. Tasks also include the design of a decorative 12’ high perimeter wall required to enclose the proposed pump station site located at the SW corner of NW 37th Avenue and NW 3rd Street. In addition, Mr. Canales assignments include the review of the structural design and details for the temporary steel cofferdam required to shore the deep excavation. Cofferdam elements include steel sheet pile walls, bracing walers, welded connections and concrete seal. **Contact:** Ms. Clara Sidan, PE, (305) 416-1200.

Indian Creek Drive Retaining Walls; City of Miami Beach, FL – 06/2020 - 12/2023 - Structural Engineer in charge of the QA/QC for the design and plans preparation of multiple retaining walls for this important improvement project along Indian Creek Drive, from 25th Street to 35th Street. Wall designs include Permanent Concrete Seawalls, Permanent Steel Sheet pile walls, and temporary critical sheet pile walls designed to protect the roadway during the installation of multiple drainage structures required along the project. Walls required special consideration due to the extremely aggressive marine environment. **Contact:** Mr. Matthew LePera, P.E., P.M.P. 305-673-7000 ext. 26828

Water and Wastewater Treatment Plant Inspections, MDWASD, Miami, FL. – 04/2022 – 05/2022 - Structural Engineer tasked with the inspection of multiple facilities throughout Miami-Dade County including Water Treatment Plans (WTP) and Pump Stations. Inspections included existing tanks, buildings, reservoirs, silos, office buildings, sludge pump rooms, pump station dry wells, and maintenance buildings among others. Tasks included Inspection Reports and cost estimates. WTP’s inspections included the Alexander Orr Plant and the Hialeah Preston Plant. **Contact:** Mr. Edgar Diaz, P.E., 786-385-6824.

Miami Dade South Corridor; Department of Transportation and Public Works (DTPW), FL – 01/2021 – 06/2025 - Structural Engineer in charge of the QA/QC of FDOT type signal mast arms at 26 intersections along the Busway (Parallel to US-1) from Dattran Dr. to Krome Avenue. Mast arm design included coordination with signalization, survey, Geotech, drainage among others to make sure that the proposed foundations and structures were conflict-free during construction. Additional services included the structural peer review for the station canopy design. (Total of 14 Stations). **Contact:** Mr. Francis Liston, 727-201-7366.

Venetian Causeway Hurricane Irma Repairs, Miami-Dade County, FL - 04/2020-Present - Structural Engineer in charge of the QA/QC for the preparation of construction documents to address damages created by Hurricane Irma at the two bascule bridges of this important corridor. Scope includes repairs to the timber fenders, generator building as well as the tender house tile roof repairs for bridge Nos. 874459 & 874474. Services included Maintenance of Traffic Plans as well as the preparation of permit applications for DERM and South Florida Water Management District. **Contact:** Mr. Gabriel Delgado, P.E., 786-469-5371.

SR 9A/I-95 Ramps Southbound Off-Ramp to SW 25 Road; FDOT District 6, FL, 6/2021-Present – Structural Engineer in charge of the QA/QC for the plans preparation for the replacement of the existing approach slabs for bridges 870162 and 870163. Tasks also included the expansion joint replacement for the two structures utilizing a backer-rod and silicone system and the installation of joint headers. Expansion joint types include the evaluation backer rod systems designed to accommodate existing 4.5” joint openings for the steel spans. **Contact:** Ms. Ivette Funtanellas, P.E., 305-470-5270.



Mariana Evora, PE

Lead MEP Engineer

Mrs. Evora has over 10 years of experience in the fields of water resources and environmental engineering, and has served as consultant, project manager, and design engineer in numerous multidisciplinary projects. Her technical expertise includes stormwater planning and project implementation, analysis and design of best management practices, design and construction of pump stations and pipelines, design criteria manuals and permitting, development of capital improvement plans, establishing stormwater utilities. Mrs. Evora’s experience also includes planning and design of water transmission and distribution systems and sanitary sewer collection and transmission systems. Her relevant project experience includes the following:

RELEVANT EXPERIENCE

West Avenue Neighborhood Improvement Project, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 01/2017 – On-Going | \$115,000,000 – The project included the design and construction of the complete public underground utilities of water distribution and transmission system, sanitary sewer collection system, and stormwater drainage system, including the verification and development of a stormwater model and a new 120,000 GPM stormwater pump station. Ms. Evora was responsible for the design of a complete and functional neighborhood improvement project, including a pedestrian friendly “Complete Street” redesign, the typical section, curb and gutter, harmonization with lower lying adjacent properties, utility relocation, compliance with City standards and specifications, and compliance with Miami-Dade DERM requirements.

First Street Neighborhood Improvement Project, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 11/2021 – On-Going | \$134,000,000 – Mrs. Evora served as owners Project Manager for the design and of one of the City’s marquee projects at the South of Fifth neighborhood, project includes design and permitting of new sanitary sewer, water distribution and stormwater system for major roads in the Miami Beach South of Fifth Neighborhood, and the installation of a new Stormwater Treatment System and pumping system that is to be located in a City owned parking lot on the SW corner of First Street and Washington Ave. This project also includes raising of First Street between Alton Rd and Washington Ave including the intersections, road elevations is meant to mitigate sea level rise in an area that is already prone to flooding during high tide events. The project included a new 200,000 gpm stormwater pump station.

Indian Creek Neighborhood Improvement Project, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 05/2019 – On-Going | \$18,000,000 – The Indian Creek Neighborhood underwent several developments including roadway and stormwater drainage improvements along Indian Creek Drive from 26th street to 41st street and the associated side streets, including completing the 45,000 gpm stormwater pump station at 32nd Street, reconstruction of the roadway, signing and pavement marking improvements, curb and gutter redesign, harmonization (to adjacent private properties), and sidewalk on a portion of Collins Avenue. Ms. Evora was responsible for the design of a complete and functional neighborhood improvement project, the roadway design, the typical section, curb and gutter, harmonization with lower lying adjacent properties, utility relocation, compliance with City standards and specifications, and compliance with Miami-Dade DERM and FDOT requirements.

Venetian Causeway Water and Sewer Replacement, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 11/2022 – On-Going | \$20,000,000 – Managed the design and permitting for the complete replacement of aerial and subaqueous pipe along the Venetian Causeway bridges including the subaqueous segment at the east bascule bridge. The project includes complete replacement of one of the City’s major feeds from Miami Dade County Water and Sewer Department, a 36-inch water transmission main and the replacement of the force mains that convey sewerage from each of the Venetian Isles towards Miami Beach for further conveyance to Central District Wastewater treatment plant. A total of 7,100 LF of 16 and 36-inch water mains were designed and permitted for replacement via HDD and 5,000 LF of sewer mains ranging in sizes from 6 to 10-inches of sanitary sewer force main were designed for HDD replacement between the venetian isles. Due to multiple breaks in the sewer main at the bascule bridge crossing, the segment of the pipelines at this section was expedited for construction under an emergency basis. Challenges of the project included ensuring the design and construction could take into account the future bridge replacement and widening along the same corridor. Ms. Evora was responsible for the design and construction of a complete and functional water main and force main.



Firm:

Delta Consultants, LLC

Availability: 90%

Years with Delta

3 years

Years of Experience:

12 years

Education:

BS in Civil Engineering, Florida International University, 2014

Registrations/

Certifications: Professional Engineer Florida No. 86167 Licensed in 2018

NASSCO PACP, MACP, & LACP Certified 2024

FDOT Advanced MOT

Areas of Expertise:

- Stormwater Pump Stations
- Sewage Pump Stations
- Water Booster Stations
- Drainage Systems
- Stormwater Forcemains & Outfalls
- Water Quality Treatment
- Water Quality Wells
- Water & Sewer Pipeline Design



Pump Station 28 Emergency Repairs, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 04/2020 – 10/2020 | \$1,000,000 – The project entailed the complete replacement of the intake and discharge valves for sewer Pump Station No. 28. It included the replacement of three (3) 30-inch and two (2) 36-inch faulty sewer plug valves along the Pine Tree Dr. corridor. In order to successfully complete the replacement of the valves line stops had to be installed at key locations to by-pass the sewer flows. A detailed construction sequencing plan was required for the valve replacement and to ensure all construction activities were properly coordinated. The COVID 19 pandemic that coincided with the beginning of the work further complicated the construction activities due to material delivery delays, lack of personnel, and safety concerns due to mandatory social distance requirements of the time. The scope of work included the expedited design, emergency permitting, and administration and inspection of the construction contract for the scope of work. The project entailed work within municipal/urban roads and coordinating with other public agencies, utilities and affected property owners. It also included responses to RFIs, shop drawing review, change order review, inspection for conformance with contract documents, tracking schedule, progress and installed quantities, review and approval of pay requisitions, and review of as-built drawings, development of punch list, and project certification and close out. Long lead items in this project were purchased directly by the City through an owner direct purchase (ODP) to expedite the repairs to the critical sewer infrastructure.

Pump Station No. 5, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 05/2021 – 10/2021 | Condition Assessment Only – Performed a complete assessment and developed the Remedial Action Plan (RAP) for the remediation of the moratorium condition at Pump Station No. 5. Conceived as a two-step process the remediation looks to reduce I/I perform and perform rehabilitative work to the station and system downstream from the pump station.

Pump Station No. 18 rehabilitation and regulatory compliance remediation, Miami Beach, FL | City of Miami Beach | Cristina Ortega, PE, 1700 Convention Center Drive, Miami Beach FL 33139, cristinaortega@miamibeachfl.gov, 305-673-7080 | 05/2021 – 10/2021 | Condition Assessment Only PS 18 was in moratorium due to surcharge condition evidenced in the manhole directly upstream from the pump station. Mariana was responsible for performing an evaluation and a condition assessment to the pump station. She then designed and permitted a new gravity sewer system leading to the sewer pump station and performed upgrades to the sewer that would remediate the moratorium condition. Project was successfully completed significantly under budget.

MDWASD Pump Station Improvement Program, Miami-Dade County | Miami-Dade Water and Sewer | Juan Curiel, PE, 3071 SW 38 Ave., Miami, FL 33146, juan.curriel@miamidade.gov, 786-552-8399 | 2015 - 2022 | \$15,043,000 – Lead design engineer for the fast-track design, permitted and construction services to upgrade several force mains and sewer pump stations throughout Miami Dade County, work was completed as part of the overall County Pump Station Improvement Program (PSIP). Services included surveying, geotechnical, engineering analysis and reports, design (civil, hydraulic, structural, mechanical and electrical) contract documents preparation, cost estimating, scheduling, permitting and limited construction support services.

Project	Size	Description	Const. Cost	Design Completion	Construction Completion
PS 65	650 GPM	Duplex Wet Well/Valve Vault	\$530,000	2015	2015
PS 500	730 GPM	Duplex Wet Well/Valve Vault	\$723,000	2015	2015
PS 502	600 GPM	Duplex Wet Well/Valve Vault	\$880,000	2015	2017
PS 67	500 GPM	Duplex Wet Well/Valve Vault	\$552,000	2015	2018
PS 26	2,200 GPM	Triplex Wet Well/Valve Vault	\$1,600,000	2017	2019
PS 109	2,400 GPM	Triplex /Above Ground Valves	\$1,800,000	2017	2019
PS 836	300 GPM	Duplex Wet Well/Valve Vault	\$536,000	2016	2018
PS 1201	600 GPM	Duplex Dry Well/Wet Well	\$1,300,000	2018	2022
PS 1306	570 GPM	Duplex Wet Well/Valve Vault	\$722,000	2017	2019
FM 65 Ph. I	3,000 LF	Open Cut 8, 12 and 16-inch DIP	\$3,000,000	2015	2016
FM 65 Ph. II	1,250 LF	16 and 24-inch DIP	\$1,500,000	2015	2016
FM 500	2,400 LF	10 and 12-inch PVC	\$1,900,000	2015	2016
Aggregate Project Value:			\$15,043,000		



Luis Aguiar Utility Coordinator

Mr. Aguiar has over 48 years of experience. He successfully managed the Miami-Dade Water and Sewer Department - one of the largest water and sewer utilities in the Country – from an operational and capital perspective. Mr. Aguiar played critical roles negotiating and implementing multiple consent decrees. During his tenure he was responsible for the Department's Water Treatment, Water Distribution, Sewage Collection, Pump Station Maintenance, and Meter Divisions, with annual budgets of more than \$100 million and over 800 employees. In addition to his operational experience, he managed several large programs for the utility, including: the Infiltration/Inflow Reduction program and the Pump Station Improvement Program. After his tenure at MDWASD, Mr. Aguiar worked at Hazen and Sawyer on several critical projects including the City of Miami Beach Water and Wastewater Program and the Miami-Dade Water and Sewer Capacity, Management, Operations, and Maintenance for Water Systems Program. He now serves as Delta Consultants' Senior Water and Sewer Engineer. His relevant project experience includes the following:

RELEVANT EXPERIENCE

Capacity, Management, Operations, and Maintenance (CMOM) for Water, Miami, FL | Miami-Dade Water and Sewer | Peter Jelonek, PE, 3071 SW 38 Ave., Miami, FL 33146, peter.jelonek@miamidade.gov, 786-552-8117 | 2014 – 2016 | \$10,000,000 (fee) – Developed the CMOM for Water contract for WASD. The program included the development of O&M manuals, the procurement of Advanced Metering Infrastructure (AMI), automation of plants, process improvements and solids handling improvements, Lead and Copper Rule Revisions Compliance, asset maintenance optimization at Hialeah and Preston WTPs to improve current WASD maintenance processes, development of the Chlorine Risk Management Plans for the Alexander Orr Jr. and John E. Preston Water Treatment Plans in order to meet EPA required deadlines, and as needed consulting services to perform manned entry of PCCP pipelines to assess internal condition and provide technical solutions and recommendations during PCCP emergencies.

Water Treatment and Distribution Operations, Miami, FL | Miami-Dade Water and Sewer | Lazaro Cabrera, 1001 NW 11 St., Miami, FL 33136, lazaro.cabrera@miamidade.gov, 786-268-5401 | 2010 – 2016 – Responsible for the operations and maintenance of the WASD water treatment and distribution system. Implemented key R&R and system maintenance projects to ensure adequate operations. Key projects included the implementation of a CMOM for Water contract to address asset management, as well as the PCCP monitoring program to mitigate the risk of critical failures in the PCCP water mains. Responsible for the entire water system, which included three (3) regional water treatment plants (WTP), with a combined capacity in excess of 439 MGD – Alexander Orr WTP, John E. Preston WTP, and the Hialeah WTP. The system also included the shared Hialeah Reverse Osmosis (RO) WTP, and five (5) small auxiliary treatment facilities that service the southernmost area of the County. The primary treatment regime for WASD takes source water from the Biscayne Aquifer, softens the water via lime softening, passes the water through media filtration and provides primary disinfection with gaseous chlorine. In addition to the primary treatment regime air stripping towers are utilized in the Hialeah and Preston WTP's to remove volatile organic compounds (VOC's) and provide trihalomethane (THM) control. The water supply source consisted of fourteen (14) wellfields comprised of a total of 95 production wells, ten (10) Floridian Aquifer wells and five (5) aquifer storage and recovery wells. Water distribution throughout a 400 square miles service area was performed via seven (7) remote finished water storage and pumping facilities and nearly 8,600 miles of water mains ranging in size from 2 inches to 72 inches in diameter.

Water Transmission and Distribution Operations, Miami, FL | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidade.gov, 786-552-4447 | 1999 – 2010 – Lead the daily operations of the Water Transmission & Distribution Division, directing the operation and maintenance of a vast municipal water system comprising 6,000+ miles of mains, 2,300+ miles of services, 160,000+ valves, and nearly 45,000 hydrants. Ensured compliance with the Florida Administrative Code and other federal and local regulations.



Firm:

Delta Consultants, LLC

Availability: 80%

Years with Delta:

3 years

Years of Experience:

40+ years

Education:

BS in Civil Engineering,
Florida International
University, 1978

Areas of Expertise:

Utility Operations &
Maintenance

Utility Coordination

Water & Sewer Pipeline
Design

Trenchless Construction

Venetian Causeway Water and Sewer Replacement, Miami Beach, FL | City of Miami Beach | Omar Mendoza, PE, 1700 Convention Center Drive, Miami Beach FL 33139, omarmendoza@miamibeachfl.gov, 305-673-7080 | 11/2022 – On-Going | \$20,000,000 – Performed utility coordination and served as the technical advisor for the replacement of aerial and subaqueous pipe along the Venetian Causeway bridges including the subaqueous segment at the east bascule bridge. The project includes complete replacement of one of the City’s major feeds from Miami Dade County Water and Sewer Department, a 36-inch water transmission main and the replacement of the force mains that convey sewerage from each of the Venetian Isles towards Miami Beach for further conveyance to Central District Wastewater treatment plant. A total of 7,100 LF of 16 and 36-inch water mains were designed and permitted for replacement via HDD and 5,000 LF of sewer mains ranging in sizes from 6 to 10-inches of sanitary sewer force main were designed for HDD replacement between the venetian isles. Due to multiple breaks in the sewer main at the bascule bridge crossing, the segment of the pipelines at this section was expedited for construction under an emergency basis. Challenges of the project included ensuring the design and construction could take into account the future bridge replacement and widening along the same corridor. Phase I, the expedited portion, of this project consists of the replacement of the water main particularly between Rivo Alto and Belle Isle where the drawbridge is located, this portion was expedited as an emergency due to sustained ruptures on both the water and sewer mains along these segments. The project included a complete and functional force main, including material selection, compliance with City sewer standards and specifications, compliance with Florida Department of Transportation utility accommodations manual and Miami Dade County Public Works manual as well as compliance with Miami-Dade DERM requirements, and all appurtenant work for a successful design completion of both the sewer and water transmission lines that are of high importance to the liveliness of the islands population as well as the health of adjacent waterways.

Pipeline Construction Management, Miami-Dade County | Miami-Dade Water and Sewer | Miguel Pichardo 3071 SW 38 Ave., Miami, FL 33146, miguel.pichardo@miamidadegov, 786-552-4352 | 1995 - 1997 | \$25,000,000 – Several projects were constructed by WASD Department Forces under Mr. Aguiar’s direction, including:

- Two miles of 24-inch water transmission main in downtown Miami
- Over 100,000 feet of force mains as required by Consent Order
- Over 30,000 feet of water mains at the Everglades Migrant Labor Camp
- Over 50,000 feet of water mains for the Village of Pinecrest

MDWASD Pump Station Improvement Program, Miami-Dade County | Miami-Dade Water and Sewer | David Vazquez, PE, 3071 SW 38 Ave., Miami, FL 33146, david.vazquez@miamidadegov, 786-552-4447 | 1992 - 2000 | \$250,000,000 – Mr. Aguiar served as Project Manager for the Department, where over 350 sewer pump stations were identified and upgraded to meet a 10-hour per day nominal average pump operating time (NAPOT). Upgrades included I/I investigations, pump upgrades, structural upgrades, mechanical upgrades, electrical upgrades, and complete station replacements.

Emergency Repair Management, Hialeah, FL and Miami Beach, FL | Miami-Dade Water and Sewer | Miguel Pichardo 3071 SW 38 Ave., Miami, FL 33146, miguel.pichardo@miamidadegov, 786-552-4352 | 2008 - 2008 | \$15,000,000 – Mr. Aguiar managed large pipeline repairs for various emergency projects including:

- A 54-inch water main repair on Red Road in Hialeah, FL
- 5,000 feet of water main with services to 50 homes in Sunkist Estates within 5 calendar days
- Repair of a 54-inch sewer force main at Miami Beach, FL

Miami-Dade Water and Sewer Value Engineering Change Proposal (VECP) Horizontal Directional Drill (HDD) Alternative for the 18” Water Main along NW 37 Ave. from NW 36 St. to NW 79 St., Miami-Dade County, FL | JVA Engineering | Javier Romero, 6600 NW 32 Ave., Miami FL 33147, jr@jvaengineering.com, 305-696-7902 | 11/2023 – On-Going | \$2,989,387 – Managed utility coordination and served as the technical advisor for the installation of an 18-inch water main along NW 37 Ave from NW 36 St. to NW 79 St. The scope of work included three separate railway crossings, requiring utility coordination and coordination with the ROW owners. Each crossing included a 30-inch HDPE IPS DR-11 carrier pipe and an 18-inch HDPE DIPS DR-11 force main (host pipe). Specific crossing details are listed below.

Crossing #.	Length (LF)	ROW / Railway Owner
1	575	CSX Corporation
2	875	SFRTA
3	657	FEC
Total Length	2,107 LF	

The project required in-depth engineering to ensure that all utilities were properly identified and did not conflict with the HDD alignment. Additionally, detailed engineering calculations were performed for the HDD including pulling force calculations and casing deflection calculations to account for E-80 Cooper Railroad Loading.



Thalia Isla Civil Engineer



Mrs. Isla is a hydraulics engineer that has experience in the design, permitting and inspection of water, wastewater resources and environmental engineering. She has experience developing complex hydraulic calculations for water, wastewater, and stormwater projects. Mrs. Isla has substantial experience with AutoCAD and AutoCAD Civil 3D in the preparation of detailed site civil projects, complex mechanical systems, pumps station design and in the development of gravity and pressure pipe networks. She has a strong technical background and knowledge with a focus in hydraulics engineering that is put into practice in the design, permitting and estimating of water resources infrastructure. Leveraging this expertise, Mrs. Isla has developed the detailed design of several key resilience projects. Her relevant project experience includes:

RELEVANT EXPERIENCE

Miami-Dade Water and Sewer Value Engineering Change Proposal (VECP) Horizontal Directional Drill (HDD) Alternative for the 18" Water Main along NW 37 Ave. from NW 36 St. to NW 79 St., Miami-Dade County, FL | JVA Engineering | Javier Romero, 6600 NW 32 Ave., Miami FL 33147, jr@jvaengineering.com, 305-696-7902 | 11/2023 – On-Going | \$2,989,387 – Served as the project engineer for the installation of an 18-inch water main along NW 37 Ave from NW 36 St. to NW 79 St. The scope of work included three separate railway crossings, requiring utility coordination and coordination with the ROW owners. Each crossing included a 30-inch HDPE IPS DR-11 carrier pipe and an 18-inch HDPE DIPS DR-11 force main (host pipe). Specific crossing details are listed below.

Crossing No.	Length (LF)	ROW / Railway Owner
1	575	CSX Corporation
2	875	SFRTA
3	657	Florida East Coast Railway (FEC)
Total Length	2,107 LF	

The project required in-depth engineering to ensure that all utilities were properly identified and did not conflict with the HDD alignment. Additionally, detailed engineering calculations were performed for the HDD including pulling force calculations and casing deflection calculations to account for E-80 Cooper Railroad Loading.

FLL GTL WWTP Redundant Effluent Force Main, Fort Lauderdale, FL | Ric-Man Construction Florida | Chris Mancini, 3100 SW 15 St. Deerfield Beach, FL 33442, christopherm@ric-manfl.com, 954-426-1221 | 11/2023 – On-Going | \$46,000,000 – Project Engineer for the installation of approximately 4,200 LF of 60" force main to convey the effluent of the wastewater treatment plant to the deep injection wells for disposal. The project required extensive utility coordination as the corridor (Eisenhower Blvd.) for the large diameter pipeline was heavily congested with other utilities. Additionally, the industrial area in the vicinity of the project serves Port Everglades for fuel distribution and has many critical fuel lines in the project corridor. This required an in-depth utility coordination effort with fuel companies such as Marathon (MPLX) and Buckeye. Additionally, several conflicting utilities were relocated including crown castle, Port Everglades fiberoptics, Port Everglades CCTV, and Florida Power & Light (FPL).

City of North Miami Septic to Sewer Improvements Phase II and Phase III, North Miami, FL | Tetra Tech | Christopher Zavatsky, PE, 6303 Waterford District Dr. #305, Miami FL 33126, christopher.zavatsky@tetrattech.com, 305-908-1421 | 08/2023 – On-Going | \$1,100,000 – Project Engineer for the septic to sewer conversion of 47 and 12 properties for Phase II and Phase III, respectively. The project required detailed site inspections to develop the private side lateral drawings and ensure invert elevations matched the required elevations for existing gravity sewer. Utility side laterals were designed to comply with Miami-Dade County Water Standards. Additionally, Phase III required the design of new gravity sewer to collect and convey flows from the 12 parcels. The project demanded fast track schedule and extensive coordination to ensure a functional sewer system. It helped the City improve its infrastructure resilience by providing the needed central sewer infrastructure to eliminate failing

Firm:

Delta Consultants, LLC

Availability: 90%

Years with Delta:

3 years

Years of Experience:

3 years

Education:

BS in Civil Engineering,
Technological University of
Havana Jose Antonio
Echevarria, 2019

Areas of Expertise:

Hydraulic Engineering

Drainage Design

Water and Sewer Pipeline
Design

Pump Station Design

Cost Estimating



HERNANDO R. RAMOS, P.E.

Senior Engineer

Medley, Florida

EDUCATION

- MS, Civil Engineering, 1988 – Georgia Institute of Technology, Atlanta, GA
- MS, Civil Engineering, 1986 – Florida International University, Miami, FL
- BS, Civil Engineering, 1978 – University of Cartagena, Colombia

PROFESSIONAL REGISTRATIONS

- Professional Engineer, Florida 42045

AVAILABILITY 80%

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers

EXPERIENCE SUMMARY

Geotechnical engineer with more than 40 years of experience with transportation, industrial, ports, civil and projects. His experience includes design, planning, execution of new geotechnical projects and the remedial procedures to correct foundation problems of existing structures, extensive involvement with axial and lateral pile analyses, slope stability evaluation on retaining walls and embankment projects using geosynthetic reinforcement. Other specialties include design of numerous retaining wall types such as mechanically stabilized earth, reinforced concrete, sheet pile cantilever and anchored walls.

SUMMARY OF KEY PROJECTS

Mr. Ramos has been technically involved with numerous FDOT, MDX and Miami-Dade County projects. The following list includes several selected projects:

Allapattah Flood Mitigation Project – City of Miami Department of Resilience and Public Works – Project No. B-233815, Miami- Dade, County, Florida. Provided support for all the fields of exploration and geotechnical design of the project. Performed 30 SPT borings for roadway improvements, to depths ranging from 6 to 20 feet. In addition, 30 SFWMD constant head percolation tests performed, and one SPT boring to a depth of 150 feet for a deep well, to obtain water samples for testing of salinity, resistivity, Total Dissolved Solids (TDS), and chloride content tests, a provided a Report of a Drainage Well Assurance for the project.
 ▪Year Ending: (2025) ▪ Firm: HR Engineering Services, Inc. ▪ Role: Chief Engineer ▪ Client: City of Miami/Ribbeck Engineering, Inc. ▪ Email: Hans Ribbeck hr@ribbeck.co. Tel: 303-383-5979.

SR 907/Alton Road from Michigan Avenue to South of Ed Sullivan Drive/43rd Street – Pump Stations and an Anchored Sheet pile Wall - FDOT D6 - FPID No. 429193-1-52-01, Miami- Dade, County, Florida. The project consisted of the design of Pump Stations PS-100 & PS-200 and other retaining structures for the subject project. Performed all the field exploration and provided geotechnical recommendations for the foundation support of the pump stations and other retaining structures.
 ▪Year Ending: (On-going) ▪ Firm: HR Engineering Services, Inc. ▪ Role: MAT Chief Engineer ▪ Client: FDOT D6 PM Adrian Viala, P.E. ▪ Email: adrian.viala@dot.state.fl.us ▪ Tel: 954-677-701▪

SR 5/US-1/Truman Ave./North Roosevelt Blvd. at Eisenhower Dr./Jose Marti Dr. FDOT D6- FPID No. 454101-1-52-01, Monroe County, Florida. The project consisted of the design and construction of a Pump Station, a concrete generator pad, and electrical control equipment. and other retaining structures for the subject project. Performed all the field exploration and provided geotechnical recommendations for the foundation support of the pump stations and other retaining structures.
 ▪Year Ending: 12/2024 ▪ Firm: HR Engineering Services, Inc. ▪ Role: MAT Chief Engineer ▪ Client: FDOT D6 ▪ PM Adrian Viala, P.E. ▪ Email: adrian.viala@dot.state.fl.us ▪ Tel: 954-677-701▪

Work History

- January 1978 - December 1982, Caminos Vecinales (Colombia)
- January 1983 to May 1988, Graduate Studies in FIU, and Georgia Tech.
- June 1988 - December 1998, Law Engineering Services, Inc.
- January 1999 to Present, HR Engineering Services, Inc.



Heather M. Leslie

Principal/Senior Community Outreach Specialist - Bilingual



SELECT EXPERIENCE

HML PUBLIC OUTREACH, LLC Availability 90% **April 2010 – Present**
Principal, Project Manager and Senior Community Outreach Specialist

FDOT District Six, Communications Consultant Services for Golden Glades Interchange Construction Project
Project Manager **October 2023 – Present**
Oversees the development of all outreach strategy, including advertising campaign, website development, social media messaging and stakeholder coordination. PIO contract: \$2 million; Estimated construction cost: \$900 million
Reference: Andres Berisiartu, FDOT District Six Assistant Construction Engineer, 305-525-4976, andres.berisiartu@dot.state.fl.us

Village of Key Biscayne Resilient Infrastructure and Adaptation Program
Senior Community Outreach Specialist **September 2023 – Present**
Coordination and development of strategy, templates and deliverables for Resilience Program. Social media and video campaigns and community events. PIO contract: \$224,000; Estimated program cost: \$150 million
Reference: Jessica Drouet, Communications & Community Relations Officer, 786-696-4173, jdrouet@keybiscayne.fl.gov

City of Hollywood Community Redevelopment Agency, Phase IV Undergrounding of Overhead Utilities and Streetscape Project
Project Manager **April 2023 – Present**
Coordination with client to develop outreach strategy for license agreement meetings and execution. Overseeing development of project branding and planning for upcoming public meetings. Manages contract, staffing and budget. PIO contract: \$48,000; Estimated construction cost: \$48 million
Reference: Sarita Shamah, P.E., Senior Project Engineer, 954-924-2980, sshamah@hollywoodfl.org

Village of Bal Harbour, Utility Infrastructure Improvement Project
Project Manager and Public Information Officer **August 2022 – Present**
Developed branding for construction materials: fact sheets, advisories, door hangers, outdoor signage and hero slides for website. Develops weekly updates and performs in-person coordination during paving operations. PIO contract: \$19,975; Estimated program cost: \$41,666,460
Reference: Sylvia Flores, Director of Recreation, Parks & Culture, 305-993-7480, sflores@balharbourfl.gov

FDOT District Six, Districtwide Communications Consulting Services Construction Projects
Project Manager, Senior Community Outreach Specialist **April 2015 – Present**
Tamiami Trail Phase 2 Project (Design-build): The project includes building six new bridges, seven improved culverts and elevating sections of Tamiami Trail. PIO work as part of districtwide contract estimated cost: \$30,000; Estimated design-build cost: \$66 million
Reference: Andres Berisiartu, FDOT District Six Assistant Construction Engineer, 305-525-4976, andres.berisiartu@dot.state.fl.us

City of Miami Beach, PIO Services on Right of Way and Construction Projects
Project Manager and Public Information Liaison **October 2015 – Present**
West Avenue Phase 2 Neighborhood Improvement Project (Design-build): This project includes underground improvements, installing a pump station and raising the elevation of the roadway to minimize street flooding. It will complete the previous work performed in the neighborhood. PIO contract: \$395,250; Estimated design-build cost: \$105 million
Indian Creek Drive Flooding Mitigation Projects: This project continued the flooding mitigation, seawall and landscaping improvements along this corridor. PIO contract: \$218,250; Estimated construction cost: \$21,013,594
Reference: Lauren Firtel, City Neighborhood Affairs Manager, 305-986-6403, laurenfirtel@miamibeachfl.gov

EDUCATION

2004, Journalism, University of Florida

2020, "How to Create and Conduct an Online Public Meeting," FDOT Transportation Symposium



AVAILABILITY

75%

INDUSTRY TENURE

41 years

LONGITUDE TENURE

22 years

EDUCATION

AA, Miami Dade College
(1993)

REGISTRATIONS Professional

Surveyor
and Mapper
FL License No. LS6313

AFFILIATIONS

Florida Surveying and
Mapping Society
Miami Chapter President

America Society of Civil
Engineers
Member

Utility Engineering Surveying
Institute
Member

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

Design and Permitting for the Sea Level Rise Pilot Project (Twin Lakes Project), Monroe County, Key Largo, FL

Longitude Surveyors re-established right-of-way and centerline geometry, computing best-fit alignments where needed and providing a graphical baseline. The firm processed County-provided LiDAR and completed a comprehensive topographic survey documenting roadway features, utilities by records research, drainage structures, vegetation, wetlands, and verified elevation data.

Design and Permitting for the Sea Level Rise Pilot Project (Big Pine- Fathers Way and D Avenue), Monroe County, Key Largo, FL

Longitude Surveyors completed a topographic survey that re-established right-of-way and centerline geometry, computing best-fit alignments where needed and providing a graphical baseline. The survey documented roadway features, utilities by records research, drainage and sanitary structures, vegetation, soil borings, wetlands, and verified elevations collected on a 100-foot grid along roadways and 50-foot grid at intersections, referenced to Florida State Plane (NAD 83/2011) and NAVD 1988.

Stormwater Master Plan Modeling and Design Implementation, City of Ft. Lauderdale, Ft. Lauderdale, FL

Longitude Surveyors provided Boundary, Topographic, Tree, Bathymetric, and High Mean Water Surveying services for over 50 outfalls across Broward County.

Brickell and Coconut Grove Seawalls Project (S-BCG) between SE 25 Road to Matheson Avenue and Brickell, City of Miami, Miami, FL

Longitude Surveyors completed a topographic and bathymetric survey for three locations tied to the Brickell and Coconut Grove Seawalls Project at the street ends of Crystal View Court, Royal Road, and Matheson Avenue in Miami, extending approximately thirty feet into the adjacent water.

Flamingo Drive & 29 Street Seawall, City of Miami Beach, Miami Beach, FL

Longitude Surveyors provided a Horizontal and Vertical Control Survey, verifying and setting horizontal and vertical control, including setting benchmarks. Additionally located five existing utilities crossing the Indian Creek. The pipelines were mapped both horizontally and vertically, and the silt or mud line of the canal was mapped from edge to edge of the water





AVAILABILITY

75%

INDUSTRY TENURE

19 years

LONGITUDE TENURE

2 year

EDUCATION

BS, History
Florida Int'l University (2005)

Surveying and Mapping
Certificate
Southern Polytechnic
State University
(2008)

REGISTRATIONS Professional
Surveyor
and Mapper
FL License No. LS7169

AFFILIATIONS

Florida Surveying and
Mapping Society
Member

Greg Bouie, PSM, is a professional surveyor with 19 years of experience in the surveying and mapping field. He began his career in Dallas, Georgia, focusing on subdivision design and large boundary surveying projects around the Metropolitan Atlanta area. Greg started as an instrument person while studying surveying and mapping at Southern Polytechnic State University, gaining valuable field experience alongside his education in survey theory. Over the years, he has worked with well-known firms on a variety of projects, steadily growing his expertise. In 2018, Greg became a licensed surveyor in Florida, marking a key milestone in his career. In 2024, he joined the Longitude Surveyors team, where he leads our Broward Office and continues to contribute to the industry while excelling in his profession.

Brickell and Coconut Grove Seawalls Project (S-BCG) between SE 25 Road to Matheson Avenue and Brickell City of Miami, Miami, FL

Longitude Surveyors completed a topographic and bathymetric survey for three locations tied to the Brickell and Coconut Grove Seawalls Project at the street ends of Crystal View Court, Royal Road, and Matheson Avenue in Miami, extending approximately thirty feet into the adjacent water.

Replacement Of Eight (8) Seawalls in Edgewater, City of Miami, Miami, FL

Longitude Surveyors completed a topographic and bathymetric survey for eight separate locations at the street ends of NE 22 Street, 22 Terrace, 25 Street, 26 Street, 27 Street, 30 Street, 30 Terrace, and 35 Street along Biscayne Bay in Miami, extending approximately thirty feet into the adjacent water.

Seawall Replacement at Rue Notre Dame, City of Miami Beach, Miami Beach, FL

Longitude Surveyors established horizontal and vertical control, including two temporary benchmarks, referenced to NAD 83/2011 and NAVD 88. The firm completed a 3D topographic survey for the seawall replacement area, including planimetrics, elevations on a 25-foot grid, grade breaks, tree locations, and Quality Level B utility designation within the survey limits.

Indian Creek Drive & 69 Street Pump Station, City of Miami Beach, Miami Beach, FL

Longitude Surveyors conducted a thorough boundary analysis for the project, assessing rights-of-way by evaluating field evidence, plats, deeds, and other relevant documentation.

FTL - Force Main Project, City of Ft. Lauderdale, FL

Longitude Surveyors is currently providing Subsurface Utility Engineering (SUE) services for POT locations along various roads and intersections throughout the City of Fort Lauderdale. The scope of work includes performing utility designations at all Soft Dig locations identified by the client, locating nearby evidence where necessary, and conducting Soft Dig (vacuum excavation) services. Following field activities, the team prepares detailed Soft Dig reports to document utility data and ensure accurate subsurface mapping for ongoing infrastructure planning and development.





Amanda Montgomery, PWS, WEDG

Environmental Scientist III

Amanda is a Professional Wetland Scientist (PWS) who has spent her career in Florida. Before joining WGI seven years ago, Amanda was a biologist at the FDEP, where she focused on environmental resource permitting and state lands authorizations. At WGI, Amanda conducts wetlands delineations, benthic surveys, and natural resource mapping, and she is an expert in environmental permitting. She is a Waterfront Edge Design Guidelines (WEDG) Associate. She is certified by FDEP as a stormwater, erosion, and sedimentation control inspector and by the American Academy of Underwater Sciences (AAUS) as a scientific diver.

Education

Master of Science, Marine Biology - NOVA Southeastern University, 2016

Bachelor of Science, Biological Sciences - Illinois State University, 2009

Certifications

FDEP Stormwater Management Inspector

Professional Wetland Scientist
WEDG Associate

Affiliations

Society of Wetland Scientists
South Florida Association of Environmental Professionals,
Vice President

Years of Experience

Total: 10

With WGI: 8

Availability

75%

Office Location

Fort Lauderdale

Relevant Experience

Thomas Street Stormwater Pump Station Environmental, Palm Beach County, FL, City of Delray Beach, Environmental Lead. This is a city-owned pump station that alleviates coastal flooding in Delray Beach by discharging to the Intracoastal Waterway. To support a major pump station improvement project, Amanda conducted environmental and benthic resource (seagrass) assessments in the ICWW and successfully obtained all environmental permit authorizations. She had had a leading role in the permitting through the USACE and SFWMD.

Mizell Johnson State Park Boardwalk, Broward County, FL, Florida Department of Environmental Protection, Environmental Scientist. Amanda was responsible for conducting a pre-construction vegetation survey to prepare a plant fee schedule for unavoidable construction impacts and acquired permits through Broward County, USACE Section 10/408, FDEP CCCL, and SFWMD.

FDOT Districtwide Environmental Permitting Consultant, Miami-Dade and Monroe Counties, FL, FDOT District 6, Environmental Scientist. Amanda has served as an environmental technical lead for two consecutive five-year terms on this \$1.5M FDOT Districtwide environmental permitting contract. She conducts wetland, stormwater, and other permitting as needed by FDOT. She also reviews plan drawings and reports at the various project schedule stages to ensure compliance with environmental permitting requirements under local, state, and federal regulations. This contract requires close coordination with FDOT right-of-way, utilities, drainage, maintenance, environmental, planning, landscape, design, and construction personnel. Based on WGI's performance for the first five years, FDOT awarded this contract to WGI for an additional five-year term.

Seville Street and Sebastian Street Replacements at the Intracoastal Waterway, Fort Lauderdale FL, Chen Moore and Associates, Environmental Scientist. Amanda served as environmental lead and conducted seagrass surveys and seawall replacement permitting with the Broward County Environmental Protection and Growth Management Department, FDEP, and USACE. The seawall elevations were raised per the City of Fort Lauderdale's ordinance and drainage improvements were made coastal resilience and mitigate the effects of tidal flooding and sea-level rise.

Waterway Crossings Verizon Sourcing, Miami-Dade, Broward, and Palm Beach Counties, FL, Verizon, Environmental Scientist. Amanda was the environmental permitting lead for projects that included 60 Intracoastal Waterway (ICW) and other waterway communication fiber crossings as part of a 1,250-mile long project throughout South Florida. Amanda conducted seagrass surveys and shoreline assessments (mangroves) and successfully expedited final permit and state lands authorizations. Permitting included local, state, and federal right-of-way and environmental authorities, including FDOT, South Florida Water Management District (SFWMD), Florida Department of Environmental Protection (FDEP), U.S. Army Corps of Engineers (USACE) Section 404/10, and the required state lands authorizations.





John Abbott, PG, CEP

Principal Environmental Scientist

John has diverse experience in environmental consulting, including contamination remediation, wetland mitigation, wildlife surveys, environmental planning, NEPA, and permitting. John is active in local environmental issues – he is a key volunteer for Adopt-a-Dune projects at the Dr. Von D. Mizell-Eula Johnson State Park in Hollywood.

Registrations

Professional Geologist, FL, #PG2401, 2005

Education

Master of Science, Geology - New Mexico Tech, 1995

Bachelor of Science, Geology - Virginia Tech, 1992

Certifications

Certified Environmental Professional #20196

FDEP Stormwater Management Inspector #25672

FWC Authorized Gopher Tortoise Agent GTA-09-00267

FWC Burrowing Owl Registered Agent # RAG-19-00018

Affiliations

South Florida Association of Environmental Professionals

Years of Experience

Total: 30

With WGI: 11

Availability

75%

Office Location

Fort Lauderdale

Relevant Experience

Atlantic Avenue and Lyons Road (Feurring Commercial MUPD), Palm Beach County, FL, JDR Development, Contamination Lead. John developed a soil management plan to allow construction despite contamination in the soil and groundwater. This included obtaining concurrent from FDEP that new stormwater management system would not negatively affect a groundwater plume. The innovative soil management plan involved soil reuse from a dry detention basin in the right-of-way of a County road. John also prepared a modification to the Declaration of Restrictive Covenant.

Dr. Von D. Mizell-Eula Johnson State Park / Broward County Segment III Beach Renourishment, Hollywood FL, Eastman Aggregate Enterprises, LLC, Environmental Scientist. John provided environmental compliance support for this 7-mile long USACE beach renourishment project. Much of the project was within the Dr. Von D. Mizell-Eula Johnson State Park. John performed vegetation inventories prior to construction and then performed inventories after construction to determine the amount of vegetation restoration needed. John advised the contractor on the planting plan for restoration. John also conducted seabird and shorebird monitoring during construction, including specific surveys for the endangered piping plover.

Allapattah Neighborhood Citywide Flood Mitigation Improvements, City of Miami, FL, Ribbeck Engineering Inc, Environmental Scientist. John led a contamination impact assessment for an urban area of approximately 400 acres and 6 miles of roadway. The assessment was done to guide the design of proposed drainage improvements such as exfiltration trenches, underground injection wells, swales, curb and gutter structures, and road reconstruction. The project was complicated by the presence of numerous known contaminated sites with groundwater plumes. The assessment included recommendations to avoid or minimize remediation costs and avoid or minimize costs for treatment of effluent from construction dewatering.

SR 7 (US 441) Widening Design-Build from Fillmore Street to South of Stirling Road, FDOT District 4, Hollywood, FL, Contamination Lead. John prepared the Contaminated Soil Management Plan to address soil and groundwater contamination during construction. The \$32M design-build project was complicated by the numerous gas stations, dry cleaners, and associated soil and groundwater plumes in the area.

NEPA Environmental Assessment for Wastewater Treatment Plant at the Hollywood Reservation, Broward County, FL, Seminole Tribe of Florida, Environmental Lead. This was a NEPA Environmental Assessment for a new wastewater treatment plant. It included a comprehensive assessment of natural resources, cultural resources, and physical resources.

Thomas Street Pump Station Submerged Aquatic Vegetation Survey, Palm Beach County, FL, City of Delray Beach, Environmental Scientist. To support environmental permitting for upgrades to this pump station that discharges to the Intracoastal Waterway, John assisted with a seagrass survey and permitting through the USACE and SFWMD.

Andrews Avenue Detention Area Remediation, Fort Lauderdale FL, Broward County Highway and Bridge Maintenance Department, Environmental Lead. A roadway fuel spill contaminated a stormwater detention area. John led the cleanup which included removal of petroleum-impacted soil and long-term groundwater monitoring.





TAB E

APPROACH TO SCOPE OF WORK

Approach to Scope of Work

I. Understanding of the City’s Needs, Goals, and Objectives

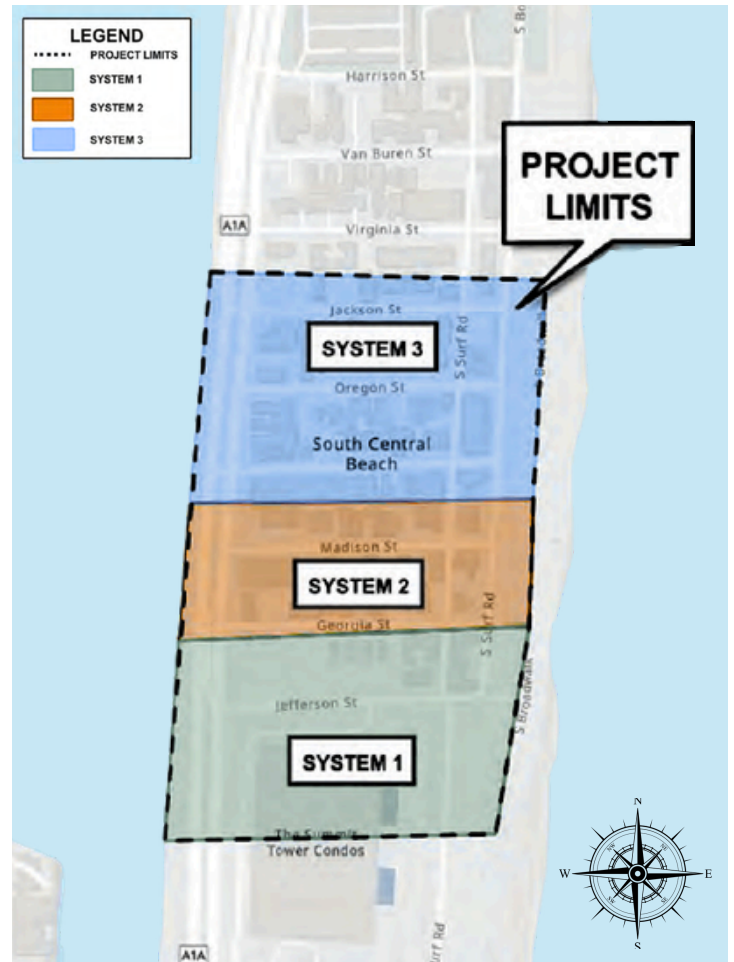
Like many low-lying coastal communities, the City of Hollywood has experienced chronic flooding due to high-intensity rainfalls, tidal flooding and rising sea levels, that challenges the City’s aging infrastructure and places its communities at risk. The City’s Community Redevelopment Agency (CRA) is actively implementing solutions from the City’s Stormwater Master Plan (SWMP) that address these threats, including additional stormwater pump stations within the Beach District. Simultaneously, the Florida Department of Transportation (FDOT) is installing two pump stations, within the CRA boundaries, to address flooding along SR A1A. Pump Station No 1, covers from Eucalyptus Terrace to Jefferson street and Pump Station No. 2 covers from Jackson Street to the Hollywood Boulevard off-ramp.

The purpose of the Stormwater Pump Station No. 16 Project is to provide flood protection to the existing drainage Systems 1-3 from south of Jefferson Street to Jackson Street. The project aims to efficiently and effectively manage the stormwater within these boundaries by directing it away from low-lying areas, reducing flooding along SR A1A and adjacent areas.

II. Understanding of Scope of Services

Ribbeck Engineering understands the objective of this project is to provide the necessary modeling and related hydraulic analysis to develop the stormwater pump station design. The scope also includes the analysis of alternative pump station locations and a Basis of Design Report assessing the level of service for each alternative presented for the City’s/CRA’s approval.

Once the alternative is selected, the scope includes preparing the complete set of construction documents, permits, environmental assessment, right of way investigation, surveying and utility locates, and geotechnical investigation. In addition, the scope includes project coordination efforts and project management, including the construction administration services.



Scope of Services

- Project Meetings
- Project Coordination
- Data Collection
- Survey
- Utility Locates
- Geotechnical Investigation
- Environmental Assessments
- Right of Way Investigation
- Alternative Pump Station Locations
- Basis of Design Report
- 30%/60%/90%/Final Contract Documents
- Permitting
- Construction Administration

III. Project Management Strategies

Through our experience with similar projects, we know first-hand how critical a proactive management approach, combined with best management practices, is to ensure this type of project is delivered successfully. Our project management approach is to establish the project requirements, set the basis for controlling the scope, schedule, budget, and providing quality products at the start of each assignment.

Upon NTP of a project, a Project Management Plan (PMP) is prepared to provide the team with a roadmap for the project's goals. The PMP details the assigned task, the principal responsibilities and authority of the project participants, proposed schedule and budget, quality procedures, and communication protocols.

A. Communication and Coordination Strategies

Through the implementation of a structured and inclusive coordination framework, we aim to support efficient project delivery. During the kick-off meeting, the REI team will coordinate with the City/CRA and subconsultants to establish communication protocols and procedures that will streamline our coordination including:



REI utilizes effective electronic tools to streamline all communications with the City/CRA staff such as Teams® and One Note®. Sharepoint sites will be utilized for file sharing of project documents. For interdisciplinary design reviews, our team will depend on Blue Beam sessions to allow for interdisciplinary coordination.

To track the projects' progress, REI will hold biweekly meetings and disseminate meeting notes to the team within two (2) business days. Critical issues will be assigned a resolution date and a responsible party. During these meetings the budgets and schedules will be analyzed to ensure they stay on track. The City/CRA staff will be provided monthly progress updates on current and planned activities with focus on the project's schedule and budget. The report will also identify any issues, along with suggested approaches and resolutions.



Our Team will proactively engage affected external stakeholders including:

Utility Coordination: The project corridor is located within a dense urban environment and contains various existing utilities, including water and sewer infrastructure, drainage facilities, and associated appurtenances. A proactive utility coordination approach is critical since utility conflicts can be costly and introduce project delays to the schedule.

Prior to construction, Our Team will perform an in-depth utility coordination effort led by our Utility Coordination Manager. The Utility Coordination Manager will ensure that all existing utilities are properly coordinated, schedule utility meetings, produce conflict matrices, perform constructability reviews, and provide in-depth utility coordination with the Utility Agency/Owners (UAO's) and the City/CRA. Moreover, we will directly oversee any necessary relocations of existing utilities and will ensure that the replaced utilities provide service that is equivalent to what is currently offered.

Right of Way Coordination: The REI Team will identify any Right of Way requirements at an early stage. Although our design philosophy is oriented to avoid Right of Way impacts by optimizing our design, we understand that certain type of improvements might trigger work outside the City's right of way.

The REI team is familiar with procuring the following:

- Temporary Easements
- Right-of-Way Acquisition
- Permanent Easements
- License Agreements

Permitting Coordination: The REI Team brings unique knowledge of the permitting requirements, process, and procedures, specifically related to drainage and pump stations. We believe a proactive approach is fundamental for the permitting efforts. **This includes having pre-application meetings between the regulatory agency, our team, and the City/CRA, during the early stages of the design phase, to establish regulatory requirements and project criteria.** This preemptive coordination streamlines the review process. After the 60% design phase, the REI Team will assist in preparing and submitting the permit applications to each agency to expedite the approval.

Coordination with businesses, residents, and maintaining agencies: Public engagement begins early in the design phase and continues seamlessly through the end of construction. We are experienced with providing tailored outreach strategy to inform the community and gain consensus and public trust. Our team is dedicated to implementing an inclusive and responsive outreach.

We have extensive experience meeting with impacted stakeholders and explaining to them the benefits that the project improvement will have on the community. One-on-one meetings will be held with critical stakeholders identified for each project. If a public meeting is required, the REI Team stands ready to provide materials and supports, including preparing presentations, exhibits and boards.

In the recent years, REI has delivered projects that provide flood mitigation improvements to affected coastal communities. These improvements required extensive coordination with the residents and businesses to provide a safe maintenance of traffic plan and an effective harmonization plan with their properties. Our team is committed to fostering positive relationships within the community and ensuring that all stakeholders are well-informed and engaged throughout the design and construction of any task.



Indian Creek Flood Mitigation Public Meeting.

Our team coordinated with over 30 properties to develop harmonization plans (road being raised 2') and obtain license agreements.

B. Schedule and Cost Control

The REI team is committed to completing tasks on time and within budget for the City/CRA, as we are with all of our clients. Our team will use the following general approach to promote adherence to scope and budget commitments for this project:

- Utilize a skilled and experienced team with well-defined roles (included herein).
- Determine the city’s CRA’s specific goals and objectives.
- Segment the project into specific, measurable tasks.
- Determine effective communications procedures.
- Develop a schedule to meet goals with specific milestones, then periodically and consistently monitor progress.
- Focus initial efforts on critical path items.
- Think of potential problems, make contingency plans as needed.
- Assist the City/CRA by creating action checklists, where appropriate and provide project status updates.

Cost control methods: Includes considerations for both design and construction cost. For the design budget, we begin with developing a detailed scope of work, fee proposal, and project-specific work plan to cover all design costs. REI will provide monthly payout curves to track the design budget as related to the designs progress. REI’s project manager will develop forecasted project expenditures depicted graphically. This forecast serves as a baseline to monitor the schedule and expenditure and keep the project on track.

For construction budgets, our designs will take into consideration the City’s CRA’s funding limitations. We will perform detailed constructability reviews to ensure all incidental work is quantifiable. With the rapid increase in material costs, it is essential that the City/CRA obtains realistic construction cost estimates at each milestone submittal and prior to construction advertisement. **REI’s extensive experience with pump station design has lead to developing pump station historical cost tracking sheet based on similar projects to aid in developing an accurate Opinion of Probable Construction Cost.** Our goal is to prevent surprises when construction bids are opened.

Schedule Control: Our team’s overall commitment to maintaining schedules will make the REI Team a valuable resource for the City/CRA. Our schedule control will include dynamically tracking each design task and their critical path dependencies. REI performs risk analysis of potential project issues and proactively finds a resolution. Risk items include delays in the data collection, request from outside agencies, utility work schedules, etc. We aim at completing critical path items at an early stage and prepare a project Schedule Recovery Plan outlining measures to be taken to get “back-on-track”, if needed.

Upon NTP, we will develop a concise and feasible detailed schedule that includes:

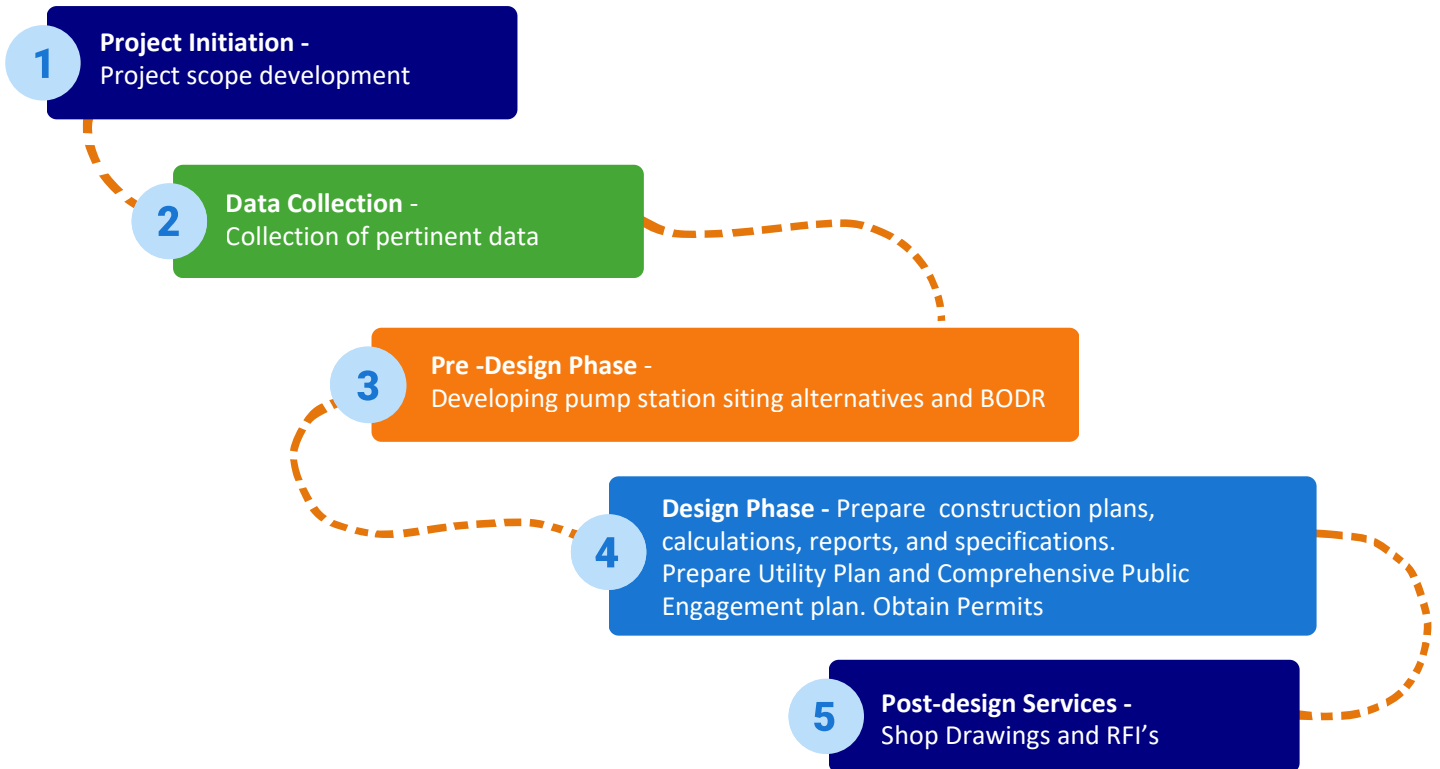
1. Key milestones
2. Project specific activities (Permitting, Right of Way, etc.)
3. Proper activity sequencing and relationships
4. Proper durations based on funding needs
5. Adequate review periods by the City/CRA and outside agencies as necessary

Firm Workload: Having a dedicated Project Manager and key staff with high availability is critical to successfully executing this project within schedule. As depicted below, several of REI’s current contracts are nearing completion, making REI fully available for this project. We are committed to maintaining high satisfaction from our clients and providing a team that is responsive, dedicated and accountable.

Project #	Project Name	Client/Agency	Dates of Service	Scope	Status
40-B223801	East Flagami Flood Mitigation	City of Miami	10/2025 - On-going	New drainage and pump station, and roadway reconstruction	60%
40-B233815	Allappattah Flood Mitigation	City of Miami	8/2024 - On-going	Roadway and drainage reconstruction	80%
449946-1	Collins Ave. RRR	FDOT	2/2024 - On-going	Roadway and signal improvements	95%
RFQ-23-02	GMX GEC	GMX	3/2024 - On-going	Multiple roadway/drainage projects	75%
451124-1	SR 9/NW 27 Ave. Safety	FDOT	11/2023 - On-going	Roadway and signal upgrades	90%
411433-5	D6 DW Drainage Design	FDOT	4/2022 - On-going	Drainage studies and upgrade projects	95%
443911-1	Biscayne Boulevard at NE 10 St. Pump Station	FDOT	1/2022 - 12/2025	Pump station and drainage improvements	100%
439228-2	Indian Creek from 25 St. to 41 St. Flood Mitigation	Miami Beach	1/2016 - 5/2023	New drainage and pump station, and roadway reconstruction	100%
427505-2	Collins Ave. from 42 St. to 44 St. Pump Station	FDOT	10/2012 - 5/2016	New pump station and drainage improvements	100%
429185-3	SR 9/NW 27 Ave. RRR	FDOT	6/2021 - 2/2024	Roadway, drainage and signal improvements	100%
443909-1	SR 934/NW 74 St. RRR	FDOT	4/2022 - 6/2024	Roadway, drainage and signal improvements	100%
443919-1	SR 90/SW 8 St. RRR	FDOT	4/2021 - 11/2023	Roadway, drainage and signal improvements	100%
443919-2	SR 90/SW 8 St. Safety	FDOT	2/2020 - 5/2023	Roadway, drainage and signal improvements	100%
447798-1	SR 5/S Dixie Hwy. RRR	FDOT	12/2023 - 9/2024	Roadway, drainage and signal improvements	100%

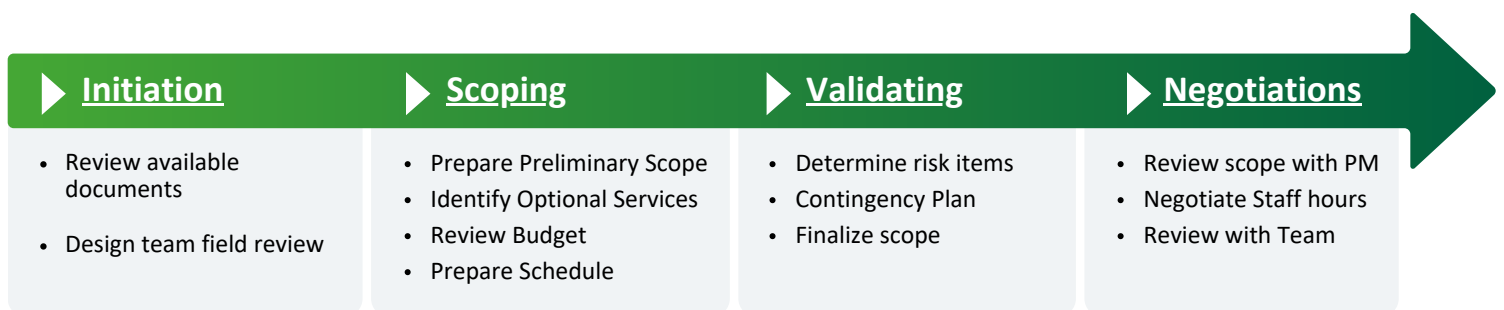
IV. Project Approach

Our previous experience allows us to recognize that the potential challenges are associated with the available right-of-way, permitting requirements, and construction impacts. We will promote a collaborative team approach throughout the design process, ensuring a clear understanding of key issues and our proposed solutions. The team has developed a streamlined design process that accelerates key activities and enables several tasks to be performed concurrently, improving overall efficiency. The design approach focuses on four main components:



A. Project Initiation

This phase is fundamental as it establishes the foundation for any project and begins prior to NTP. In order to provide a thorough scope of work, the team will perform our due diligence and research available data and existing conditions. REI will work with the City/CRA to discuss project feasibility, right-of way constraints, and environmental/permitting requirements. We will proactively coordinate with the City/CRA staff to ensure the project goals and objectives are well defined.



B. Data Collection

Prior to NTP, REI will conduct extensive desktop research including locating as-builts, permits, studies, survey and geotechnical information. The as-built request includes utility atlases for public and private utility owners. We will request available geotechnical data such as exfiltration rates within the project areas. Using the Property Appraisers website, we can obtain property limits. We have in-house aerial drone capabilities that will allow us to expedite the initial design using aerials and LiDAR while waiting on the final survey.

Field assessments will be documented with photographs and videos. A comprehensive inventory of existing features will be imported into GIS software that allow for the visualization and categorization of existing conditions used during the design phase.

Upon NTP, the REI Team will expedite our comprehensive data gathering efforts to supplement the information already obtained.

Survey and Mapping: Surveying is a cornerstone of our project approach, as it is pivotal to the development of successful design plans. Longitude Surveyors is joining the REI Team providing a profound understanding of the project area and City's/CRA's preferences. In addition, they will also provide Subsurface Utility Exploration.

Locating Utilities: To prevent service disruptions and costly penalties, we will obtain the most up to date as-built information for every underground utility within the project boundaries. Any utility information that cannot be obtained and can have an impact on the project will be investigated through Subsurface Utility Exploration (SUE), including ground penetration radar (GPR) and soft digs. Once all the available data is gathered, we will develop a utility master plan depicting existing and proposed utilities. The utility plans will be supplemented with a detailed Utility Conflict Matrix identifying all utility locations, conditions, and plans of action for conflicts and relocations. In addition, the REI Team implements several design strategies to avoid utility impacts such as:

- Conflict drainage structures
- Shallow foundations for lighting and pedestals
- Eccentric mast arms foundations
- Elliptical culverts

Geotechnical: Geotechnical investigation for this project will identify geotechnical issues per the City's/CRA's requirements, including percolation tests, corrosivity tests, soil borings, pavement cores and deep well tests.

Environmental: We understand the importance of identifying potential contamination concerns. Our preliminary desktop review reveals the closest contamination sites are located between 3100 S Ocean Dr. (Site No. 2151) and 1200 N Ocean Dr. (Site No. 1746).



Due to the potential for the presence of seagrass habitat at the outfall location, as well as the possibility of listed protected species usage, updated wildlife analysis, wetland delineations and benthic surveys (including seagrass surveys conducted during the seagrass growing season between June 1st and September 30th) may be required during the permitting process to document the presence or absence of protected resources within the proposed project alignment. The final project layout, overlaid with an updated benthic survey (including a seagrass survey), will be used to quantify both permanent and temporary impacts (if any) for which mitigation may be required.



C. Preliminary Design

The preliminary stages of design will involve selecting alternative locations and/or alternative concepts to facilitate the decision-making process. **For pump station designs this entails alternatives that minimize right-of-way, reduce construction impacts to utilities, and optimize maintenance.**

REI analyzed the proposed drainage scenarios found in the BODR. **BODR Scenario 1** proposes the pump station within the small median along SR A1A between Georgia Street and Maddison. This location requires several lane closures to accommodate the heavy construction equipment necessary to construct the pump station. Once the pump station is installed, maintenance of traffic (MOT) will be required during routine inspection, maintenance, and repair activities due to the proximity to the travel lane.

In addition, SR A1A and the adjacent side streets are part of the Undergrounding of **Overhead Utilities and Streetscape Beautification Resiliency Project**. Locating the pump station within the median would conflict with the project’s goals.

REI developed a preliminary alternative (**Alternative 1**) to BODR Scenario 1, located within the west-side of SR A1A, just south of Jefferson Street, between the southbound back of curb and the seawall. The eight foot greenway would be relocated adjacent to the curb. This location is similar to REI’s Indian Creek Flood Mitigation Project as depicted below.



ALTERNATIVE 1 – Seawall Reconstruction Alignment

Advantages

- Allow truck and crane access to provide for maintenance and repair activities.
- Most hydraulically efficient and close proximity to the intracoastal waterway.

Constraints and Impacts

- Costly since it would require the full reconstruction of 100’ segment of the seawall.
- Existing overhead utilities. Overhead utilities are expected to be placed underground in the near future.



BODR Scenario 2 locates the pump station along Jefferson Street which requires realigning the street to accommodate the footprint of the pump station. Impacts to the on-street parking are anticipated. REI developed two alternatives along Jefferson Street to reduce these impacts.

Alternative 2 locates the pump station closer to the intersection and along the south side to minimize impacts to the streets alignment.

Alternative 3 locates the pump station further east towards the end of the block, within a grass area adjacent to the public parking lot.

KEY COMPARISON OF ALTERNATIVES			
Alternative	Cost	Hydraulic Efficiency	Traffic Impact
ALT 1	High	Highest	Minimal
ALT 2	Lowest	Moderate	High (Parking Loss)
ALT 3	High	Low	Minimal

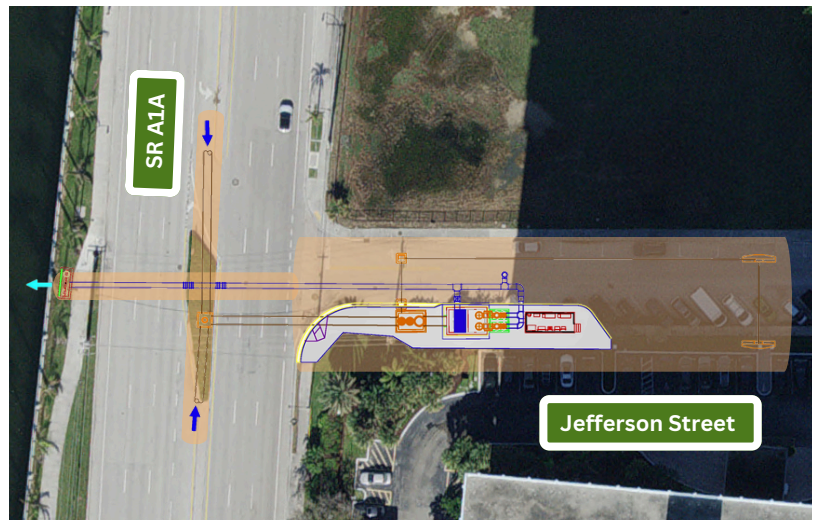
ALTERNATIVE 2 – Seawall Reconstruction Alignment

Advantages

- Allow truck and crane access to provide for maintenance and repair activities.
- Most Economical.

Constraints and Impacts

- Still impacts parking, approximately 12 parking spaces.
- Roadways profile has a low sag curve not desirable for a pump station site.



ALTERNATIVE 3 – Seawall Reconstruction Alignment

Advantages

- No impacts to traffic during maintenance and inspection.
- Best site grade elevation

Constraints and Impacts

- Longer Forcemain and trunk-line
- Higher head losses
- More expensive
- Deeper excavation and sheet pile required.



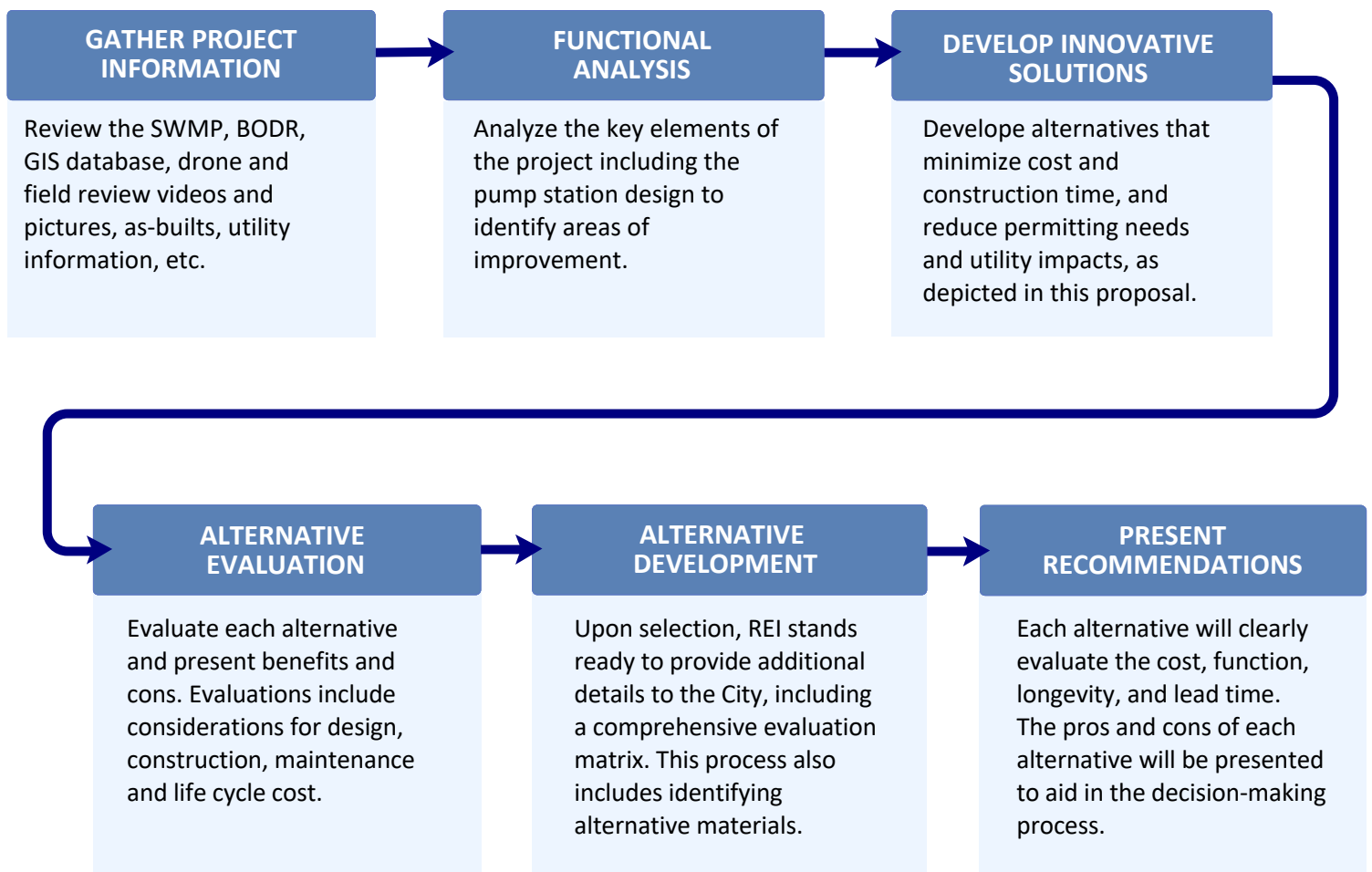
REI will thoroughly analyze these preliminary alternatives along any potential locations coordinated with the City/CRA and prepare a formal pump station siting report summarizing the pros and cons of each location. Once three alternative locations from the provided choices are selected by the City/CRA, REI will follow a thorough evaluation process including necessary modeling analysis to assess the level of service. REI will present each option in a Basis of Design Report for the City's/CRA's final selection.

With the rise in construction costs globally, Value Engineering (VE) is a fundamental practice for municipalities. A critical step for the project during the preliminary stages will be determining how to design and construct the extensive improvements in an efficient and low-cost manner without substituting quality and functionality. We have extensive experience providing VE services to our clients for stormwater projects that offer cost-saving options. Our team will work in a collaborative effort to develop a strategic plan that streamlines the decision-making process, including preparing an evaluation matrix to weigh each VE alternative and give a quantifiable evaluation. The flow chart below depicts REI's VE process which will be applied to this contract.

Francis Mitchell, PE, MS, CGC
Lead Stormwater Engineer



As Assistant Director of the City of Miami Public Works Department for seven years, Francis oversaw the maintenance of the City's pump stations, and the design/construction of various drainage projects. He provides unparalleled constructability, maintenance, and operation insight of the City's assets.



C. Final Design

Once the City/CRA has selected the preferred alternative, our team will proceed with providing 30% schematic design, 60%, 90% and Final Design Bid Documents to the City/CRA for approval. Our design will follow the applicable design criteria, with special attention to the standards, practices, requirements, and applicable ordinances. For the pump station design, our team has developed a streamline approach ensuring the design is reliable, efficient, and maintainable.

Mechanical, Electrical, and Plumbing (MEP) Systems

The mechanical, electrical, plumbing, and instrumentation systems are central to the functionality and long-term reliability of Pump Station #16. The MEP design will be developed as an integrated system, closely coordinated with the civil and structural elements of the pump station, to ensure that the facility performs as intended under peak storm and tidal conditions and aligns with the City’s operational objectives.

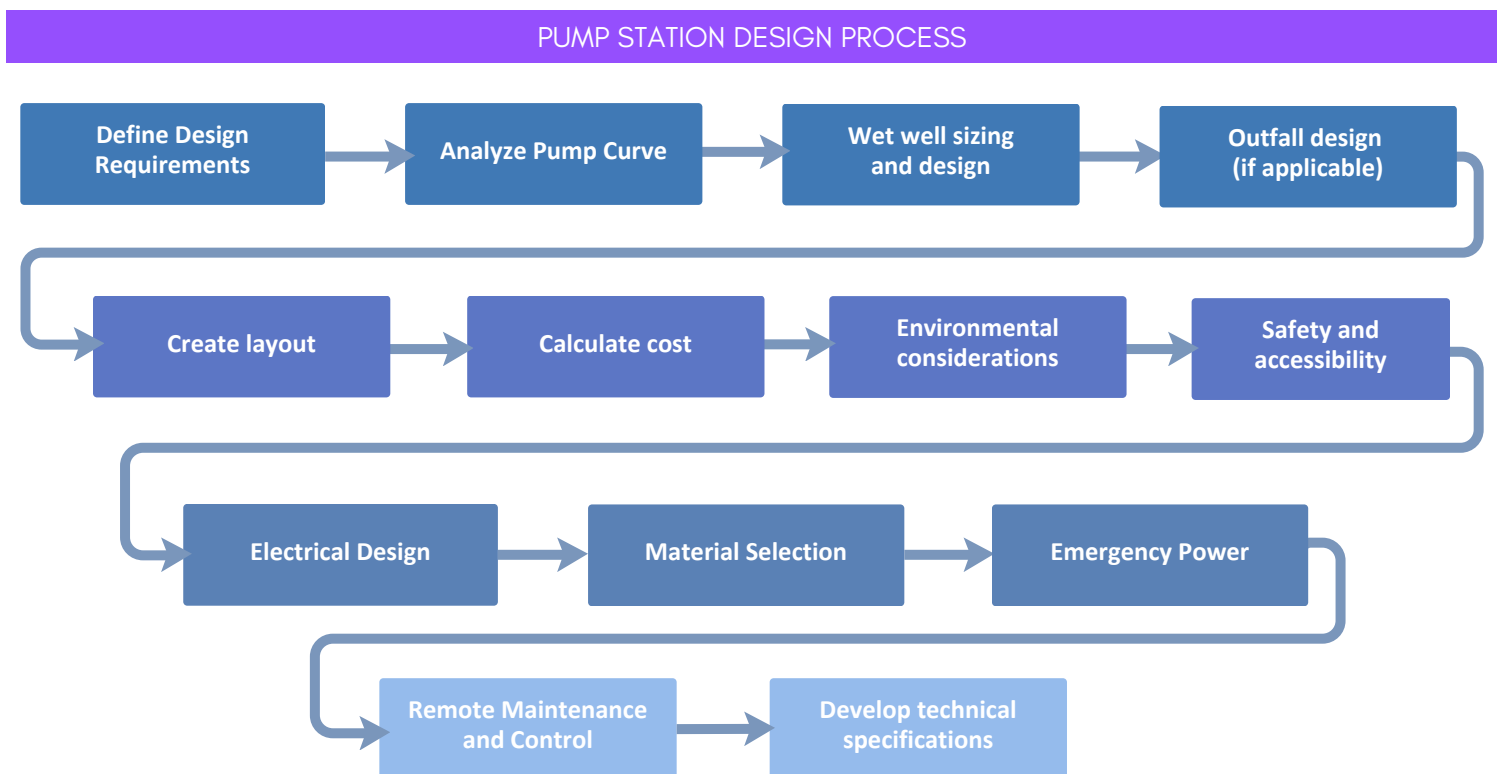
Mechanical Systems and Pump Selection

Pump selection will be based on the hydrologic and hydraulic modeling performed by Our Team as well as what is documented in the Basis of Design Report (BODR), which identifies an overall pumping capacity of approximately 20,200 gpm. Pump type, configuration, and redundancy will

be evaluated to ensure reliable operation across the anticipated range of operating conditions, including variable inflows, fluctuating tailwater elevations, and storm surge influences. Consideration will be given to pump efficiency, operating curves, startup and cycling characteristics, and maintenance requirements to support long-term operational reliability. Associated mechanical components, including discharge piping, valves, and appurtenances, will be designed to accommodate the selected pumps and to minimize hydraulic losses and maintenance burden.

Electrical Systems and Power Sizing

Electrical design will be developed in direct coordination with pump selection to ensure that power distribution, motor control, and protection systems are appropriately sized for the selected equipment. Electrical loads will be evaluated based on pump horsepower requirements, starting characteristics, and operational sequencing under both normal and peak demand conditions. The electrical system will include motor control centers or variable frequency drives, as appropriate, to support efficient pump operation and system flexibility. All electrical components will be designed in accordance with applicable codes, standards, and utility requirements, and will be coordinated with the serving electrical utility.



Backup Power and Emergency Operations

Given the critical role of Pump Station #16 during storm events, provisions for backup power will be incorporated into the design. Backup power requirements will be evaluated to support continuous pump station operation during extended utility outages associated with major storm events. Generator sizing will be coordinated with the full connected electrical load of the pump station, including pumps, controls, and ancillary systems. Fuel storage capacity will be evaluated to support extended runtime requirements, such as multi-day or long-duration storm events, consistent with City/CRA preferences and operational policies. The final configuration, including generator type and fuel storage approach, will be coordinated with the City/CRA during design.

Instrumentation, Controls, and SCADA Integration

Instrumentation and control systems will be designed to provide automated operation, monitoring, and alarm capabilities during rainfall and tidal events. The control system will support pump sequencing, level-based control, and fault detection to ensure efficient and reliable operation under varying conditions. The pump station will be designed for integration with the City's supervisory control and data acquisition (SCADA) system, allowing operators to monitor system status, receive alarms, and adjust operational parameters remotely during storm events. Instrumentation will be selected to provide accurate and reliable data on water levels, pump status, power conditions, and system performance.

Overall, the MEP design will be fully integrated with the civil and structural layout of the pump station, utility connections, and outfall improvements to address constructability, operational resilience, and long-term compatibility with the City's maintenance, operational, and asset management practices.

Structural Components

The project encompasses various structures, temporary sheet pile walls, pump station and pollution control housing structures, outfalls, and seawall modifications.

The design and construction of the pump station and pollution control housing structures will present unique challenges due to the high water table in the region which will require specialized construction techniques to ensure

stability and functionality. Detailed planning and execution will be essential to effectively navigate these challenges, ensuring the long-term success of the infrastructure improvements.

The modified seawalls will be strategically integrated with the development of the new outfall, facilitating effective stormwater management and protecting coastal infrastructure. The connection of the outfall pipe and the support structure should have a collar to ensure a proper seal is maintained around the pipe anulus and migration of upland fill material is prevented. If the existing seawall structure exhibits signs of significant deterioration or overstress, a repair or replacement should be implemented to ensure overall functionality of the outfall. Coordination with permitting agencies is essential for confirming the full scope of seawall requirements.

D. Permitting

The proposed pump station and associated stormwater improvements will require coordination with multiple regulatory agencies. As identified in the BODR and RFQ documents, anticipated permits include an Environmental Resource Permit from the South Florida Water Management District, Section 404 authorization from the U.S. Army Corps of Engineers, and coordination with the Florida Department of Transportation for work within or adjacent to SR A1A.

Permitting efforts will be closely integrated with the design process to ensure consistency with the established hydrologic and hydraulic modeling, design high-water assumptions, and applicable design manuals. Early and ongoing agency coordination will be essential to support timely permit approvals and alignment with the City's/CRA's implementation schedule. To that end, Our Team is ready to leverage existing working relationships with all regulatory entities within the project limit to hold pre-application meetings before the 30% submittal, these include:

- 1 South Florida Water Management District (SFWMD Dewatering & ERP)
- 2 US Army Corps of Engineers (USACE Section 404 Permit)
- 3 Florida Department of Environmental Protection (NPDES & Dewatering Permit)
- 4 Broward County Environmental Protection (BCEPGMD)

A key regulatory challenge will be to provide adequate treatment prior to discharge into the Intracoastal Waterway, which is classified as an impaired waterbody for nutrients. Regulatory compliance will focus on providing net water quality benefits through approved treatment measures. The BODR identifies the use of a vortex-type pollution control structure to meet applicable water quality and pollutant loading reduction criteria established by regulatory agencies. Our Team is prepared to bring our experience designing stormwater pump stations that outfall to Outstanding Florida Waters. Across our numerous similar project, our team has experience implementing, not only vortex structures, but also filter units, and water quality wells to meet nutrient reduction criteria.

E. Construction and Administrative Services

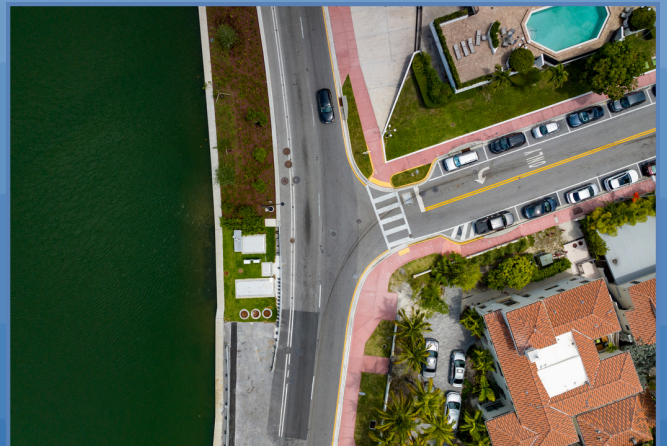
Our dedicated team will aid with the procurement process to obtain a contractor. Through the construction phase we will swiftly address any RFIs, claims, or change orders. Each request will first be thoroughly analyzed for its validity. Should the plans require a revision, our EORs will provide the most economical solutions. We understand delays during construction need to be minimized to avoid further impacting the communities. REI will ensure all shop drawings reviews are expedited.

F. Quality Assurance Quality Control

REI provides quality measures at every step of the design process. The foundation for our quality products begins with the REI team. Our Team consists of highly experienced professionals in their respective fields. As plan reviewers for other agencies, our team is kept abreast with the latest industry standards.

For this project a formal Quality Management Plan (QMP) will be provided outlining the required process and assigned independent reviewers for each deliverable. Our QA/QC plans are considered a “living document” as they are continuously updated to include “lessons learned” from ongoing projects.

Our goal is to provide a satisfactory product to the City and its residents. REI takes full responsibility for the quality of our deliverables and we take pride in having a Post-Design Services record of *ZERO errors and omissions!*





TAB F

KNOWLEDGE OF SITE CONDITIONS

Project Site Conditions

I. Understanding of Site Conditions

Project Area

The project limits fall within the historical Hollywood Beach and is part of the Beach District CRA. The project boundaries consist of scenic highway SR A1A to the west, Hollywood Beach boardwalk to the east, Jefferson Street to the south, and Jackson Street to the north. The area is primarily residential and within an urbanized section of Hollywood Beach.

SR A1A runs north and south and is the primary exit route. The corridor is a six (6) lane divided highway with curb and gutter and sidewalk along both sides. The intersecting side streets are primarily two lanes in each direction and several provide on-street parking. Along Jefferson Street, the narrow footprint will create unique construction challenges for the staging of material and egress into the adjacent properties.

Existing Drainage Infrastructure

The existing stormwater systems serving this area consist of gravity-based conveyance infrastructure that discharges directly to the Intracoastal Waterway and has demonstrated limited effectiveness under combined rainfall and tidal influences. These deficiencies are documented in the City's Stormwater Master Plan and further evaluated in the Basis of Design Report (BODR) prepared for the pump station improvements.

The project limits extend from Jackson Street to the north, Jefferson Street to the south, SR A1A to the west, and South Surf Road to the east, encompassing approximately 10.64 acres of highly urbanized coastal terrain. The drainage systems within this area are characterized by flat topography, shallow groundwater conditions, and tidal tailwater control from the Intracoastal Waterway. As documented in the BODR, existing flooding depths during the 5-year storm range from approximately 0.17 feet to over 3.0 feet, with flood durations exceeding two hours in localized low-lying areas.

II. State, County, and City Requirements

Several governing agencies fall within the project area that will need to be consulted with should any improvements affect their facilities or assets.

- Florida Department of Transportation - SR A1A
- Broward County Traffic Engineering Division - Signals
- Florida Power and Light - Lighting

The REI Team is highly knowledgeable of the governing design standards, codes, and ordinances that apply to the project. This includes working within areas with low elevation lines and hurricane prone areas. REI will ensure the pump station structures are elevated above the Base Flood Elevation and are structurally sound to withstand hurricane force winds.



III. Permitting Requirements

As identified in the BODR and RFQ documents, anticipated permits include an Environmental Resource Permit from the South Florida Water Management District, Section 404 authorization from the U.S. Army Corps of Engineers, and coordination with the Florida Department of Transportation for work within or adjacent to SR A1A.

Obtaining permits on-time for this type of project requires in-depth and close coordination between the design team and various agencies. Our Environmental Scientists have strong working relationships with federal, state and local regulatory agencies as well as across the state, who are responsible for reviewing submitted environmental permit application packages and issuing permits. Our permitting specialist has secured several permits for pump stations and outfalls. Through our long-standing relationships and local experience, we have a clear understanding of the permitting processes and procedures and can navigate them efficiently.

IV. Experience with Complex Construction

Our team understands working within urban areas with limited right of way and the impacts to the public. A comprehensive construction management plan will be developed that ensures continuous, safe, and efficient movement of vehicles, pedestrians, cyclists and emergency vehicles throughout all stages of construction. Traffic disruptions will be minimized through strategic lane closures and detours. Pedestrian access will be maintained at all times through the use of temporary pathways safely distanced from construction areas.

Specific staging areas for materials and equipment will be included in the TCP, not to negatively impact the adjacent properties and vehicular traffic. Work hours chosen will take into consideration the City’s noise ordinances. The REI Team will also take into consideration special events and will evaluate the possibility, in coordination and agreement with the City, to further minimize construction schedules and by utilizing full closures, weekend closures, and strategic evaluated detour routes. The full closure of some segments may allow for staging areas within the work zone and has the added benefit of increasing worker and pedestrian safety by providing a buffered separation. Of course, critical

OADA-compliant pedestrian paths, and bicycle paths along the detour routes (with possible reduced speeds) will be maintained at all times. Coordination regarding impacts to transit and bus stops will be conducted.

Our team’s extensive experience with pump station construction, including all ancillary elements such as generators and control panels, will be an asset to this contract. As recently demonstrated in our Indian Creek Drive project, our design also considered all the challenges and constructability aspects of mobilizing, staging and constructing pump station systems. The pictures below illustrate our recent experience.



The REI Team is committed to completing the Stormwater Pump Station #16 Project, in an innovative and cost-effective manner exceeding all expectations!



TAB G

VENDOR REFERENCE FORMS

VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ-365-26-JJ
 Reference for: Ribbeck Engineering, Inc.

Organization/Firm Name providing reference: City of Miami Department of Resilience and Public Works

Organization/Firm Contact Name: Clara Sidan, PE Title: Assistant Director Stormwater & Permitting

Email: CSidan@miamigov.com Phone: (305) 416-1050

Name of Referenced Project: East Flagami Flood Improvement Contract No: 40-B223801

Date Services were provided: 9/2025 - On-going Project Amount: Design \$2,100,000.00

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

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

Description of services provided by Vendor (provide additional sheet if necessary):
 Roadway, Drainage, Temporary Traffic Control Plan and Signing & Pavement Markings Engineer of Record for the flood mitigation improvements of East Flagami Neighborhood. Scope includes new 17,000 GPM pump station with new drainage system, roadway restoration and signing and pavement markings upgrades.


Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):
 Ribbeck Engineering is a very responsive consultant, consistently submitting quality plans, and providing innovative, practical and cost effective solutions for drainage and roadway design projects.

****THIS SECTION FOR CITY USE ONLY****					
Verified via:	Email:	<input type="checkbox"/>	Verbal:	<input type="checkbox"/>	Mail: <input type="checkbox"/>
Verified by:	Name:				Title:
	Department:				Date:

VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ-365-26-JJ
 Reference for: Ribbeck Engineering, Inc.

Organization/Firm Name providing reference: HNTB - GMX General Engineering Consultant (GEC)
 Organization/Firm Contact Name: Gil Portela, PE  Title: GMX GEC Project Manager
 Email: GPortela@HNTB.com Phone: (786) 376-1045
 Name of Referenced Project: SW 137 Avenue Reconstruction Contract No: 83618-009.20
 Date Services were provided: 10/2022 - 2/2026 Project Amount: \$890,000.00

Referenced Vendor's role in Project: Prime Vendor Subcontractor/
 Subconsultant
 Would you use the Vendor again? Yes No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
 Contract Management, Roadway, Drainage, Temporary Traffic Control Plan and Signing & Pavement Markings
 Engineer of Record for the reconstruction of SW 137 Avenue. Scope included adding 2 through lanes, new drainage system, as well as signal, lighting and S&PM upgrades.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):
Ribbeck Engineering is a technically sound, professional and responsive firm, excellent always.

THIS SECTION FOR CITY USE ONLY					
Verified via:	Email: <input type="checkbox"/>	Verbal: <input type="checkbox"/>	Mail: <input type="checkbox"/>		
Verified by:	Name:			Title:	
	Department:			Date:	

VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ-365-26-JJ
 Reference for: Ribbeck Engineering, Inc.

Organization/Firm Name providing reference: FDOT

Organization/Firm Contact Title:

Name: Felix Hernandez, PE District Design Support Engineer

Email: Felix.Hernandez@dot.state.fl.us Phone: 305 470-5274

Name of Referenced Project: SR 907/Alton Road Contract No: 430444-1

Date Services were provided: 10/2014 - 6/2024 Project Amount: \$1,300,000.00

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

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

Description of services provided by Vendor (provide additional sheet if necessary):
 Drainage and signalization design and plans production. Vendor designed 84" trunk line and new pump station system for reconstruction of SR 907/Alton Road. In addition, Vendor designed the new signalization within the corridor.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):
 Highly recommended Consultant. Very professional, excellent pump station and drainage design knowledge. Ribbeck strives to provide cost efficient solutions to flood issues.

****THIS SECTION FOR CITY USE ONLY****

Verified via:	Email: <input type="checkbox"/>	Verbal: <input type="checkbox"/>	Mail: <input type="checkbox"/>
Verified by:	Name:	Title:	
	Department:	Date:	



TAB H

SUBCONSULTANT INFORMATION

Form 14

LIST OF SUBCONTRACTORS

The Respondent shall list below the name and address of each Subcontractor who will perform work under this Contract, and shall also list the portion of the work which will be done by such Subcontractor. After the opening of Submittals, changes or substitutions will be allowed with written approval of the City of Hollywood. Subcontractors must be properly licensed.

	Work to be Performed	Subcontractor's Name / Address
1.	Structures	Chrome Engineering, Inc. 16650 N. Kendall Drive, Suite 205, Miami, FL 33196
2.	Mechanical Electrical and Plumbing (MEP), Utility Coordination and Drainage Permitting.	Delta Consultants, LLC 4841 NW 1 Avenue, Miami, FL 33127
3.	Public Outreach	HML Public Outreach, LLC 5880 SW 74th Terrace 2f, Miami, Florida 33143, US
4.	Geotechnical Services	HR Engineering Services, Inc. 7815 NW 72nd Ave, Medley, FL 33166
5.	Survey and R/W Mapping; Subsurface Utility Engineering (SUE)	Longitude Surveyors, LLC 7700 N Kendall Dr Suite 705, Miami, FL 33156
6.	Environmental and Permitting Support	WGI, Inc. 3230 W Commercial Blvd #300, Fort Lauderdale, FL 33309
7.		
8.		
9.		
10.		

NOTE: Attach additional sheets if required.

- END OF SECTION -



TAB I

FINANCIAL RESOURCES



February 12, 2026

To whom it may concern:

This letter is to confirm Ribbeck Engineering, Inc.(REI) good financial standing and that REI has no prior bankruptcy proceedings.

Sincerely,

A handwritten signature in blue ink, appearing to read 'CR', is written over a light blue horizontal line.

Carlos Ribbeck, P.E. | Principal in Charge
Ribbeck Engineering, Inc.



TAB J
LEGAL PROCEEDINGS AND
PERFORMANCE



February 12, 2026

To whom it may concern:

This letter is to confirm Ribbeck Engineering, Inc.(REI) has no previous or pending letigations or legal proceedings against our firm.

Sincerely,

A handwritten signature in blue ink, appearing to read 'CR', is written over a light blue horizontal line.

Carlos Ribbeck, P.E. | Principal in Charge
Ribbeck Engineering, Inc.