

GENERAL ENGINEERING SERVICES

CITY OF KEY WEST
RFQ# 17-002

TY·LIN INTERNATIONAL



April 18, 2017

City of Key West
1300 White Street
Key West, Florida 33040

Re: General Engineering Services, RFQ No. 17-002

Dear City of Key West:

TY. Lin International (TYLI) is pleased to respond to the City of Key West's (City) Request for Qualifications for General Engineering Services. Our team understands that the City is soliciting qualifications from professional engineering firms to provide planning, design and/or construction management services for projects throughout the City. Our team stands to ready provide these services. To successfully perform this work, **TYLI** has structured a team of in-house personnel and consultants whose members are experts in their respective fields and who approach their work with innovation, state-of-the-art technology and fresh ideas. Our teaming partners have extensive local experience working with Counties and Cities in South Florida and have successfully partnered with **TYLI** on past endeavors. Our team includes

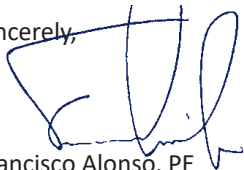
GCME: Geotechnical Engineering; Cummins | Cederberg: Coastal Engineering; Aviño & Associates, Inc.: Surveying; Fernandez-Beraud: Landscape Architecture; Miami Environmental & Civil Engineering, LLC: Solid Waste Facilities

TYLI is a full-service engineering firm located in Coral Gables, enabling a quick response to the City's needs. For over 60 years, our firm has provided civil, structural, mechanical, and electrical engineering as well as environmental services for infrastructure improvement projects throughout South Florida, and particularly in support of local municipalities and Monroe County. The firm has provided professional services for the Cities of Miami, Miami Shores, Sweetwater, West Miami, North Miami, South Miami, and Homestead, Miami-Dade County Public Works as well as the Florida Department of Transportation and South Florida Water Management District. This brings the depth of experience necessary to successfully complete tasks arising from this contract.

The firm's proposed Project Manager, Francisco Alonso, PE, has the technical, planning and organizational expertise to assure that tasks under this contract are completed on schedule, within the established budget, and to the complete satisfaction of the City. Mr. Alonso has successfully managed municipal infrastructure improvements programs for various local municipalities and agencies, including Monroe County.

Our team is committed to providing its professional services on time, within budget, and to your complete satisfaction. It is this commitment the firm wishes to extend to the City.

Sincerely,



Francisco Alonso, PE
Associate Vice President
francisco.alonso@tylin.com

EXECUTIVE SUMMARY



EXECUTIVE SUMMARY

T.Y. Lin International (TYLI) is pleased to submit this statement of qualifications to provide general engineering services to the City of Key West.

With offices throughout Florida, **TYLI** is a full-service infrastructure engineering firm with in-house multi-disciplined capabilities. The firm maintains a staff of over 150 professionals in Florida. The South Florida office of **TYLI** has been providing services to both public and private sector clients for over 50 years. We have a long-standing history of services to counties and municipalities throughout South Florida. Our staff's knowledge and understanding includes federal, state and local design standards and permitting requirements for a variety of design and construction projects. The firm has continuously performed professional services for many State regulatory agencies such as the Florida Department of Environmental Protection (FDEP), US Army Corps of Engineers (USACE), Florida Department of Transportation (FDOT), and the South Florida Water Management District (SFWMD), to name a few.

The **TYLI** team has the capabilities to perform the following professional services listed in Section One "Scope of Work" of the RFQ.

- Civil Engineering
- City Utilities
- Solid Waste Facilities
- Coastal Facilities

County and Municipal work has been the cornerstone of **TYLI's** excellent reputation for engineering services in South Florida and we are very proud of our accomplishments in projects of different sizes and complexities. **TYLI** has served as Master Engineer, holding multiple continuing services contracts for the City of Miami, City of South Miami, City of Sweetwater and the City of West Miami, to name a few. In addition, **TYLI** is currently one of Monroe County's General Engineering Consultant. The firm's experience includes major infrastructure improvements throughout Florida, including the Florida Keys. This experience includes projects that protect designated areas such as the Florida Keys National Marine Sanctuary and Outstanding Florida Waters. **TYLI** is currently working on the Blimp Road boat launch upgrades for the County and has worked with the FDEP to provide environmental permitting and civil engineering services for the Big Coppitt Key and Grassy Key segments of the Florida Keys Overseas Heritage Trail (a multi-use bicycle and pedestrian greenway spanning over 100 miles of the Florida Keys' scenic corridor). For the FDOT, the firm provided environmental services for the Lower Matecumbe Key and Roosevelt Boulevard PD&E projects, the permitting and mitigation monitoring for the US-1 improvements between Florida City and Key Largo, and engineering the resurfacing project in Big Pine Key. In addition, **TYLI** worked with the USACE on the Key West Harbor Dredging project where the firm provided environmental coordination, biological assessments and landside engineering support.

We realize that most projects arising from this contract will be adjacent to environmentally sensitive areas. Our team has the relevant experience to undertake these tasks and has the in-

house staff to provide the necessary environmental expertise and/or guidance to undertake these challenging tasks.

TYLI also provides specialty services such as grant writing assistance for FEMA grant funding programs such as the FEMA Hazard Mitigation Grant Program (HMGP) and the FEMA Pre-Disaster Mitigation program (PDM). **TYLI** successfully assisted four local municipalities with their Local Agency Certification Qualification Agreement and their Local Agency Program Project Certification allowing them to secure infrastructure funds from the American Recovery and Reinvestment Act of 2009.

We are proposing Mr. Francisco Alonso, PE to lead the team to successful contract conclusion. Francisco has over 14 years of experience in planning, design and construction administration of infrastructure projects. He will be responsible for identifying the elements of the project, allocating appropriate resources, reporting regularly on the project and developing the key recommendations and findings for all tasks. He has served as Project Manager for several county and municipal on-call contracts and his experience allows him to understand that on-call tasks can sometimes be on a fast-track. This experience allows him to mobilize a team of engineers and support staff to complete tasks timely and effectively.

He will lead the in-house, multi-disciplinary team of professionals that we propose to the City of Key West with experience to provide complete services from preliminary engineering to construction management. Our South Florida office has the capabilities to perform the following services:

Civil Engineering	Transportation Engineering
Drainage Design	Coastal Engineering
Stormwater Masterplans	Environmental Services
Planning & Feasibility Studies	Geological Services
Roadway Design	Space Planning
Mechanical Engineering	Construction Inspections
Structural Engineering	Construction Management
Electrical Engineering	Landscape Architecture
Traffic Engineering and Studies	

TYLI has structured a team for this contract whose members are not only experts in their respective fields, but who approach their work with innovation and state-of-the-art technology.

Our teaming partners have extensive experience working with counties and cities throughout South Florida. Teaming partners will provide specialty and support services. They include:

- GCME – Geotechnical Engineering - Certified DBE Firm
- Cummins Cederberg – Coastal Engineering
- Aviño and Associates-Surveying - Certified DBE Firm
- Fernandez-beraud – Landscape Architecture – Certified DBE Firm
- Miami Environmental & Civil Engineering, LLC - - Solid Waste

OUR COMMITMENT TO MONROE COUNTY

The primary objective of TYLI is responsiveness to both the needs of the client and stakeholders. Our qualified professionals, representative of the social mosaic of South Florida, are sensitive to the needs of local communities and view every project challenge with a proactive goal and enthusiastic approach to completing a project successfully. Furthermore, the firm adheres to the engineering ethic as the control center that directs all project related activities. This includes innovation in design while maintaining rigorous technical standards to deliver projects that are functional, on time, within budget, and to the complete satisfaction of the client.

TYLI will serve as a “one-stop-shop” resource of professional services for the City and we are firmly committed to providing project excellence to the City of Key West.

STAFFING AND KEY PERSONNEL



KEY PERSONNEL STAFFING AND QUALIFICATIONS

INTRODUCTION OF THE TEAM

TYLI – Prime Consultant, has structured a team for this contract whose members are not only experts in their respective fields, but who approach their work with innovative and fresh ideas. With several members of our team being located in Monroe County, our team is prepared to respond to the contract demands quickly and effectively with professionals sharing the City's commitment to the needs of its community and stakeholders. This contract will be serviced from our South Florida office located at 201 Alhambra Circle, Suite 900, Coral Gables FL, 33134.

The team will perform as an extension of the City's staff, responding to its needs as if working within the same office.

OUR TEAM COMPOSITION IS AS FOLLOWS:

T.Y. Lin International is a full-service infrastructure engineering firm with in-house multi-disciplined capabilities. The firm maintains a staff of over 150 professionals in Florida. The South Florida office of TYLI has been providing services to both public and private sector clients for over 50 years. We have a long-standing history of services to Counties and Municipalities throughout South Florida.

GCEME, Inc., is a full service State/FDOT certified (SBE/DBE) geotechnical engineering company, established in Florida since 2001. GCEME's project experience ranges from parking lots to high-rise buildings, interstate highways and bridges including bascule bridges over ICWW, encompassing industrial facilities, shopping malls, hotels and motels, residence and office buildings, educational and religious facilities, fast food and restaurant facilities, drainage systems, pipelines, recreation facilities, communication towers and various other structures.

Cummins Cederberg team of engineers and marine scientists provides a unique and comprehensive experience, ranging from: initial field investigations; such as bathymetric surveying, above/below water structural inspections, environmental assessments, soil borings, and wave measurements; through detailed analyses that utilize complex computer models. We are also experienced in the design of coastal structures, such as: seawalls, marinas and ports. In addition, Cummins Cederberg provides expertise in contract negotiations and construction administration. This unique combination of skills allows the firm to approach projects holistically with an exceptional understanding of overall construction cost and the interaction of individual components.

Aviño & Associates is a DBE firm providing surveying services for roadway and development projects throughout South Florida for over 25 years. Much of the services they provide are to public agencies, architectural firms, and private clients.

Fernandez-Beraud, Inc. is a Professional, Minority and Woman Owned Small Business, specialized in Florida Landscape Architecture and Planning. The firm's experience spans a broad range of public and private project types of large and small scale, primarily located in the state of Florida.

The firm has been established in Miami since April of 2004, following 17 years of professional practice in Landscape Architecture by its founding principal, Leticia Fernandez-Beraud.

Fernandez-Beraud, Inc. believes that Landscape Architecture, as a professional practice, requires a balanced approach between art, the environment, and the application of architectural techniques.

Miami Environmental & Civil Engineering, LLC (MECE) is an engineering firm that specializes in a variety of environmental and civil engineering projects. After working for a well-known environmental and civil engineering firm in Miami for 12 years, Jeff Thompson founded MECE in 2015 to provide uncompromisable quality in engineering and client service. We have experience throughout South Florida and are familiar with the unique regulatory processes and local engineering practices. We provide solid waste facility design and permitting along with solid waste closure and permitting.

QUALIFICATIONS OF KEY PERSONNEL

Below is a brief introduction of some of our key staff for the services identified in the Request for Qualifications. TYLI has the in-house capabilities to provide a myriad of engineering/planning services. We refer you to the organizational chart and the professional resumes (at the end of this section) of all the services and staff available for this contract.

Principal in Charge – TYLI

Mariano Valle has been active in a variety of transportation engineering projects including planning, design, value analysis, probable construction cost estimates, life-cycle costing, and inspections. His experience has included the structural design of major bridges, foundations, retaining walls, buildings, water/sewer systems, and utilities for major transportation facilities. He has over 25 years of experience in project management and throughout his tenure has developed and implemented comprehensive project management plans for project delivery methods including Design-Build and Concessions.

Project Manager - TYLI

Francisco Alonso, PE has over 14 years of experience in management, planning, design and construction of various civil engineering projects which include site Civil engineering, water and sewer, storm-water master planning, storm-water design and permitting, traffic calming, and general roadway design. In addition He has provided assistance to various municipal and public clients with Grant preparation for FEMA, DOT, HUD, etc., including performance of benefit-cost analysis. Mr. Alonso has successfully managed several miscellaneous engineering contracts with South Florida clients.

Quality Assurance/Control - TYLI

Rick Waters, PE will serve as Quality Control Officer for this contract. Rick has over 25 years of experience in planning, design and construction administration of infrastructure projects. He has been involving a variety of management roles including principal in charge, project manager, QA/QC manager and construction manager. The positions in which he has served have exposed him to a variety of unique issues and projects that few managers have experienced. Throughout his years of experience he has developed and implemented comprehensive project management plans and appropriate oversight policies and directives affording him a hands-on role as principal in charge. Some of these contracts include Citywide Sanitary Sewer Improvements and Potable Water System Improvements for Florida City and the Citywide Water Main Extension program for the City of South Miami.

General Civil Engineering - TYLI

Charles Deeb has 35 years experience in the planning, design and construction administration of transportation and infrastructure improvement projects. His expertise encompasses management of entire projects from scope determination through design and construction services, supervision of engineering staff, coordination with subconsultants and clients. Mr. Deeb's expertise involves planning, design, bidding, and construction administration services

Transportation Engineering - TYLI

Xavier Arroyo has 18 years of experience in the transportation engineering field. He has been a roadway project manager and engineer-of-record on a variety of roadway projects ranging from the roadway design of multi-lane limited-access roadways to rural/urban milling and resurfacing projects. He has signed and sealed component sets such as roadway, maintenance of traffic, signing and pavement marking, and signalization plans. Further, he is experienced in traffic design, PD&E studies, and Master Plan Studies.

Stormwater and Drainage Engineering - TYLI

Richard White, PE has over 16 years of stormwater and drainage engineering experience. His specific responsibilities have included design and permitting of water and sewer facilities, local roadways, agricultural drainage and irrigation, stormwater master planning and roadway drainage. He has provided design for storm water improvements including exfiltration trenches, pump stations, gravity lines and force mains. He has also utilized computer modeling software such as Advanced Interconnected Pond Routing (AdICPR) and XP-SWMM to develop master plans for stormwater improvements.

Water and Wastewater- TYLI

David Reynolds has over 28 years of experience in the design and construction phase services related to transportation projects. His work includes highway/roadway, horizontal/vertical layout, stormwater management, drainage, grading, earthwork, lighting, utility design, erosion-sediment control, maintenance of traffic, right-of-way public involvement, construction estimates, hydrologic and hydraulic analysis, and scour countermeasure design experience. His construction experience includes Inspector and Resident Engineer assignments on highway improvement projects.

Environmental Engineering - TYLI

Colin Henderson is a senior environmental scientist with over 29 years of experience in environmental impact assessment, wetland delineation, biological monitoring, and emergency response, and remediation. His work encompasses project management, preparation of contamination assessment and remediation reports, biological monitoring, audit compliance, and emergency spill response. His expertise includes construction oversight and coordinating with regulatory agencies and he is proficient at obtaining environmental permits for mitigation and construction projects. His experience in Monroe County includes; environmental permitting for the US 1 Widening and Florida Keys Overseas Heritage Trail, PD&E studies for Lower Maticumbe Key and Roosevelt Boulevard, and environmental coordination for the Key West Dredging Project.

Structural Engineering - TYLI

James Rosales, PE has over 24 years of structural engineering experience. He has provided structural design and construction

phase services for projects ranging from minor to complex design for utility infrastructure, pavement design, miscellaneous structures; and specialty structures such as noise abatement walls, sign structures, retaining walls, tunnels and seawalls. His experience also extends beyond design encompassing services such as bridge inspection, due diligence assessment, and repair/rehabilitation investigations. Mr. Rosales has led the inspection efforts of more than 200 bridges including segmental bridges, many located in Monroe County such as the Long Key Bridge Inspection.

Surveying – Aviño & Associates

Jorge Aviño, PE, PSM has over 40 years of experience providing civil engineering and municipal, surveying, and construction administration services throughout South Florida for public and private entity clients. For the majority of his professional career, Mr. Aviño has been responsible for the management, design and construction administration of numerous civil engineering and surveying projects. His numerous registrations, including Professional Engineer (PE), Professional Surveyor and Mapper (PSM), Certified General Contractor (CGC), and Real Estate Broker license, prove to be an asset in executing a project. Mr. Aviño is highly regarded for his skills to implement concurrent projects effectively.

Geotechnical - GCME

Partha Ghosh has 25+ years of comprehensive experience working with the Florida's Turnpike Enterprise (FTE) and FDOT Districts (specifically District IV & VI) in the field of Geotechnical and Materials Engineering. He has served as the Senior Engineer/Project Manager and Geotechnical Engineer of Record for major FDOT/FTE projects in South Florida. He has extensive experience in performing field and in-house investigation for roadway and bridge foundations, quality control/assurance of Construction Engineering Inspection and utilizing the Standard Index System, and prepared the geotechnical reports for major FTE/FDOT Highway and Bridge projects.

Coastal Engineering - Cummins | Cederberg

Jannek Cederberg is responsible for all engineering production including scheduling, resource allocation, and quality management. Mr. Cederberg is formally trained as a coastal and marine engineer from the Technical University of Denmark. He has more than fifteen years of experience in coastal and marine engineering.

Solid Waste Facilities – Miami Environmental & Civil Engineering, LLC

Jeffrey P. Thompson began his career in environmental and civil engineering has over 15 years ago. After working for a well-know environmental and civil engineering firm in Miami for 12 years, Jeff founded Miami Environmental & Civil Engineering, LLC. He has managed and served as the engineer of record on a wide variety of environmental and civil engineering projects of all sizes, including solid waste management, site civil development, and environmental site assessment and remediation projects. He has worked with private and public sector clients including commercial and residential developers, government agencies, architects and engineers, contractors, manufacturers, facility operators, and land management organizations

Public Involvement – TYLI

Larry Seel has more than 28 years of professional experience as a writer, editor, and graphic design specialist. He has more



than 16 years of experience in the transportation engineering industry and has contributed to public involvement campaigns for numerous highway and rail transit projects. He assisted a previous employer in preparing a \$1.2 billion grant application for Florida's High Speed Rail initiative and prepared maps and display boards for use at a high speed rail industry forum. He brings experience working with media outlets to disseminate project news and to prepare announcements for upcoming meetings.



CITY OF KEY WEST - GENERAL ENGINEERING SERVICES

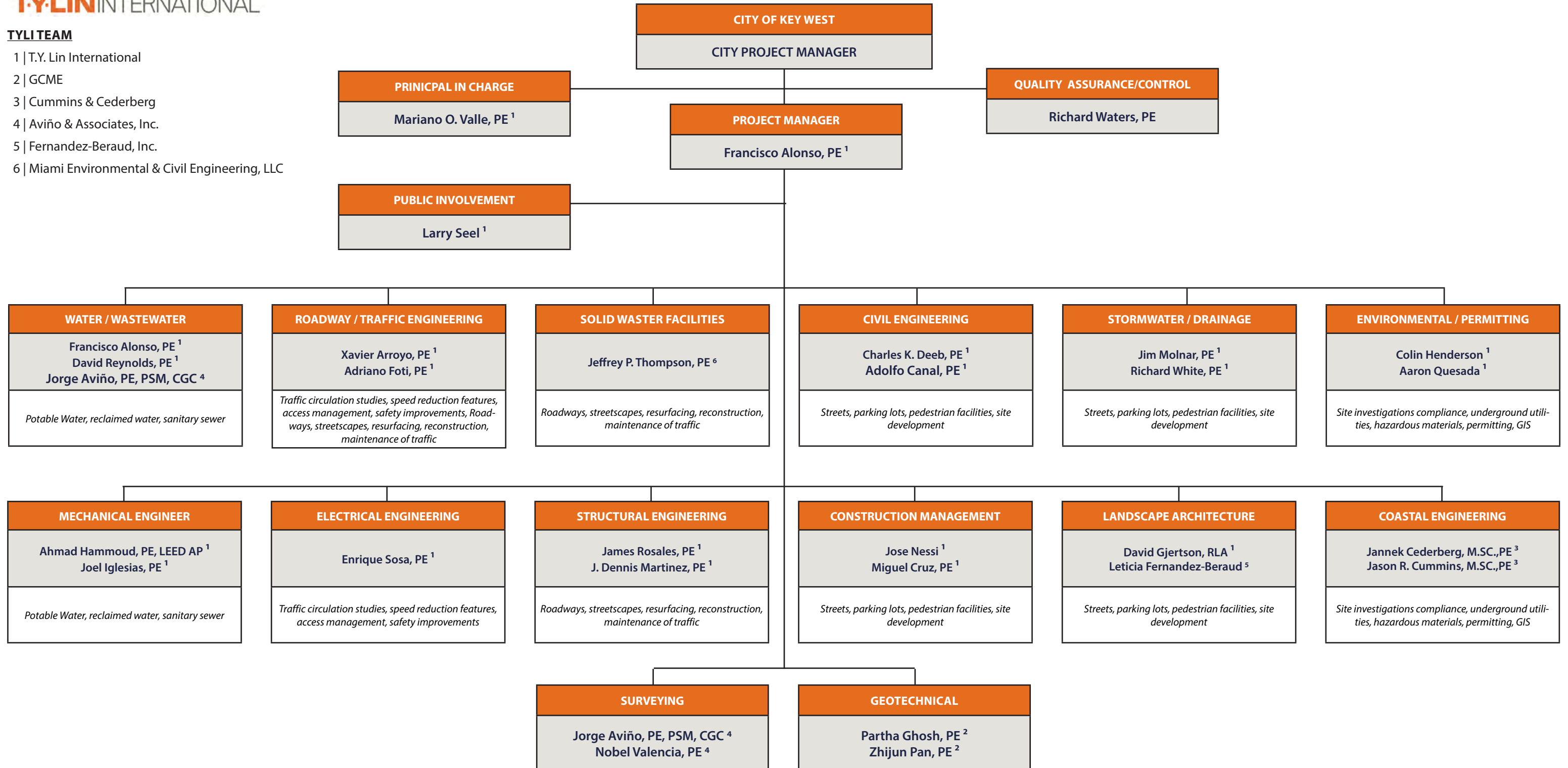
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ORGANIZATIONAL CHART



TYLITEAM

- 1 | T.Y. Lin International
- 2 | GCME
- 3 | Cummins & Cederberg
- 4 | Aviño & Associates, Inc.
- 5 | Fernandez-Beraud, Inc.
- 6 | Miami Environmental & Civil Engineering, LLC



WATER / WASTEWATER

Francisco Alonso, PE ¹
 David Reynolds, PE ¹
 Jorge Aviño, PE, PSM, CGC ⁴

Potable Water, reclaimed water, sanitary sewer

ROADWAY / TRAFFIC ENGINEERING

Xavier Arroyo, PE ¹
 Adriano Foti, PE ¹

Traffic circulation studies, speed reduction features, access management, safety improvements, Roadways, streetscapes, resurfacing, reconstruction, maintenance of traffic

SOLID WASTER FACILITIES

Jeffrey P. Thompson, PE ⁶

Roadways, streetscapes, resurfacing, reconstruction, maintenance of traffic

CIVIL ENGINEERING

Charles K. Deeb, PE ¹
 Adolfo Canal, PE ¹

Streets, parking lots, pedestrian facilities, site development

STORMWATER / DRAINAGE

Jim Molnar, PE ¹
 Richard White, PE ¹

Streets, parking lots, pedestrian facilities, site development

ENVIRONMENTAL / PERMITTING

Colin Henderson ¹
 Aaron Quesada ¹

Site investigations compliance, underground utilities, hazardous materials, permitting, GIS

MECHANICAL ENGINEER

Ahmad Hammoud, PE, LEED AP ¹
 Joel Iglesias, PE ¹

Potable Water, reclaimed water, sanitary sewer

ELECTRICAL ENGINEERING

Enrique Sosa, PE ¹

Traffic circulation studies, speed reduction features, access management, safety improvements

STRUCTURAL ENGINEERING

James Rosales, PE ¹
 J. Dennis Martinez, PE ¹

Roadways, streetscapes, resurfacing, reconstruction, maintenance of traffic

CONSTRUCTION MANAGEMENT

Jose Nessi ¹
 Miguel Cruz, PE ¹

Streets, parking lots, pedestrian facilities, site development

LANDSCAPE ARCHITECTURE

David Gjertson, RLA ¹
 Leticia Fernandez-Beraud ⁵

Streets, parking lots, pedestrian facilities, site development

COASTAL ENGINEERING

Jannek Cederberg, M.SC.,PE ³
 Jason R. Cummins, M.SC.,PE ³

Site investigations compliance, underground utilities, hazardous materials, permitting, GIS

SURVEYING

Jorge Aviño, PE, PSM, CGC ⁴
 Nobel Valencia, PE ⁴

GEOTECHNICAL

Partha Ghosh, PE ²
 Zhijun Pan, PE ²

MARIANO O. VALLE, PE

Principal in Charge

Registrations:

*PE/1994/Civil
Engineering/Florida/No.
48223*

*FICE/FDOT LRFD
Certification/1998*

Academic Achievements:

*MS/1991/Civil
Engineering/
Massachusetts Institute of
Technology*

*BS/1989/Civil
Engineering/Catholic
University of America*

Mr. Valle has been active in a variety of site engineering projects including planning, design, value analysis, probable construction cost estimates, life-cycle costing, and inspections. His experience has included public buildings, water/sewer systems, and utilities for parks, institutional facilities, and various buildings. He has over 25 years of experience in project management and throughout his tenure has developed and implemented comprehensive project management plans and appropriate policy directives in concert with the scope of services.

Miami-Dade Parks, Recreation and Open Spaces, Miami, Florida

Principal in Charge for the in-house environmental services, assisting the Department of Parks, Recreation and Open Spaces (PROS) with solid waste and contaminated soil issues at county parks. Responsibilities have included coordination with RER and RER contractors in the implementation of annual monitoring, site assessments, and corrective action plans and the review of studies and report. Projects have included Chapman Field Park site assessment, Larry and Penny Thompson Park site assessment and limited source removal, Zoo Miami limited source removal, Amelia Earhart Park solid waste removal, Colonial Drive site assessment, Country Club of Miami Corrective action plan, and Millers Pond park solid waste assessment.

City of Miami General Environmental Engineering Consultant, Miami, Florida

Principal in Charge for an on-call environmental engineering services contract to fulfill specialized quick response tasks for the City of Miami. Services have included water quality monitoring, contamination assessments and corrective actions, and community impact evaluations. Task assignments included the following projects:

- Wagner Creek TMDL Monitoring
- Billy Rolle Domino Park Contamination Assessment
- Southside Park Contamination Assessment
- Jose Marti Park Engineering Control Plan
- Trolley Garage Air Quality and Noise Impacts
- EMC and Pollutant Load Calculations

Port of Miami Tunnel, Miami, Florida

As part of a technical advisor team supporting the Florida Department of Transportation, Mr. Valle served as a Technical Advisor responsible for engineering review of the project. The Port of Miami is the world's largest cruise port and one of the major cargo ports in the U.S. The Tunnel project would link the Port of Miami with the adjacent Interstate system, thereby improving the passenger and cargo movement to and from the Port.

PortMiami Environmental Oversight, Environmental Compliance Plan (ECP) for the Government Cut Waterway Utilities Relocation – Miami, Florida

Principal in Charge for the development of the Environmental Compliance Plan (ECP), environmental permitting for dredging and all other environmental related issues, including coordination, review and oversight of environmental

MARIANO O. VALLE, PE

Principal in Charge

plans, records and reports for the replacement of a 20-inch water main from Port of Miami to Fisher Island under Fisherman's Channel and 54-inch sewer force main beneath the Government Cut Waterway near the Port of Miami. In addition, services included monitoring and controlling environmental compliance associated with water quality, protected species and waste management. Crane Electrification

Midfield Vehicular Tunnel Modification: Miami International Airport, Florida

Project engineer responsible for the structural design of the midfield vehicular tunnel extension and modifications. Mr. Valle was the field project engineer responsible for construction inspection, as well as airside safety inspections. The project included 100' extension of the existing tunnel to accommodate the new aircraft Taxiway P over the vehicular tunnel. The tunnel entrance relocation necessitated the installation of 3 new guard booths.

Miami Dade County - Program Management: FEMA Division of Restoration & Mitigation (DORM) Program

Principal in Charge for Miami-Dade County's storm water improvements and county-managed canal dredging projects under the FEMA Division of Restoration & Mitigation (DORM) program. The project objective involved dredging secondary canals to accommodate stormwater volumes and increasing the percolation capacity of current storm drainage systems to minimize flooding impacts. Mr. Nessi oversaw fourteen (14) engineering consultants conducting storm water design and fifteen (15) construction contractors. Mr. Nessi was responsible for verifying cost estimates, obtaining construction permits, overseeing improvements construction at storm-affected sites, and managing close-out phases under FEMA guidelines.

South Florida Water Management District (SFWMD), Compartment C Buildout Pump Station G-508, Hendry County, Florida; Construction Manager

Principal-in-Charge for the construction oversight and management services for a 1,630-cfs pump station as part of a new 8,800-acre Storm Treatment Area (STA) on Compartment C.

United Cargo Building: Miami International Airport, Florida

Project manager responsible for developing complete engineering packages, including construction drawings and technical specifications, for an 118,000sf cargo facility. Engineering design includes site layout, parking, drainage, and the building structure. Bid packages were produced and incorporated construction drawings, specifications, and estimated probable construction cost.

FRANCISCO ALONSO, PE

Project Manager

Registrations:

*PE/Mechanical
Engineering, Florida/
#66918*

*Building Code
Administrator, Florida /
#BU1870*

Academic Achievements:

*BS/2002/Mechanical
Engineering/University
of Miami*

Affiliations:

*Member, Florida
Engineering Society
Miami Chapter*

Mr. Alonso is a Professional Engineer with 14 years of experience in management, planning, design, permitting and construction of municipal engineering projects which include site Civil engineering, coastal facility design, vertical facility design and permitting, water and sewer design and permitting, storm-water master planning, storm-water design and permitting, traffic calming, and general roadway design. In addition he has provided professional engineering services as a consultant managing capital projects for various clients including Monroe County, City of Miami, the City of South Miami, Miami Shores Village, and the City of West Miami where Mr. Alonso's firm serves as the City Engineer.

Some of the projects for which Mr. Alonso has provided professional engineering services include:

Monroe County General Engineering Contract, Monroe County, Florida

Mr. Alonso has provided as project manager for the firms Miscellaneous Engineering Contract with Monroe County. Some specific contracts have included:

- **Blimp Road Boat Ramp Improvements** - This project includes the design, permitting and bidding assistance of the repair and extension of an existing boat ramp along Blimp Road.
- **Grouper Lane Drainage and Roadway Improvements** – This project includes the design, permitting, and construction administration of critical drainage improvements at this Key Largo location.
- **Stock Island 9th Avenue Drainage and Roadway Improvements** – this project includes the design, permitting, and construction administration of critical drainage improvements at this Stock Island location.
- **Stock Island Correctional Facility HVAC Improvements** – – this project includes the design, permitting assistance, and construction administration of improvements to this County facility on Stock Island.

Grouper Lane and Stock Island 9th Avenue Drainage and Roadway Improvements Projects, Monroe County, Florida. Mr. Alonso was the Project Manager and Engineer of Record for the drainage design of the storm-water management system for these two projects in Monroe County. The projects included solutions to address the unique drainage conditions of the low-lying coastal areas of the Florida Keys, specifically in Key Largo and Stock Island. The Project included a comprehensive drainage solution for the two locations, roadway design and reconstruction and permitting through the SFWMD. Coordination with the USACOE and the local utility agencies was also required.

Relocation of Atlantic Boulevard at Higgs Beach Restoration, Key West, Florida

Mr. Alonso serves as Project Manager and Engineer of Record Design and environmental permits for the relocation of Atlantic Boulevard as well as the park and coastal elements by implementing the Higg's Beach Masterplan. In addition this project included additional task to assist the County with the replenishment of the sandy beach involving the placement of sand above and below mean high water. Services include managing the regulatory permitting

FRANCISCO ALONSO, PE
Project Manager

process, design needed to support the permit, and construction phase engineering services in accordance to acceptable industry standards.

Cudjoe Key Boat Ramp Improvements

Design and permitting to repair an existing boat ramp that provides access to the bay at the end of Blimp Road on Cudjoe Key. The ramp requires repairs to make it both functional and safe which involved extending the existing ramp's apron. The boat ramp facility was prepared in accordance to Monroe County Code Land Development Regulations for Boat Ramps and both the USACE and FDEP permitting criteria. Project Principal for the firm assigned to oversee the design and permitting phases. Duties including oversight of the management of the project budgets, permitting, schedule, and quality control over project deliverables. In addition Mr. Alonso served as the client manager coordinating the project progress with Monroe County staff.

SR-5/US1 Overseas Highway from MM 103 to MM 107 Resurfacing, Monroe County, Florida; Quality Control Officer. As part of the Florida Keys Overseas Heritage Trail (FKOHT) project the firm was retained to perform professional engineering services which encompassed the milling, resurfacing and pavement marking plans from MM 103 to MM 107 along the US1 Overseas Highway. The project included drainage design, pavement, signals utilities, lighting and MOT plans. Responsibilities included overseeing the drainage design and acting as a quality control officer on said design.

Dinner Key Marina Improvements

The project involved mechanical, electrical, and structural engineering and architectural designs for a new marine fueling station, which consisted of gasoline and diesel fuel storage and dispensing systems as well as waterfront structures and lighting. The design involved an upland underground fuel storage systems and the 40' x 60' concrete dock for marine vessels. In addition, the firm has provided design and permitting services to the marina for the temporary dock master building and relocation of a floating dinghy dock. The proximity to Biscayne Bay requires specialized permitting through USACE, FDEP, and DERM.

Project Manager for the firm assigned to oversee the design and permitting phases of the various project components. Duties including managing the project budgets, permitting, schedule, and quality assurance over project deliverables. In addition Mr. Alonso served as the engineer of record for dockmaster facility and as the client manager coordinating the project progress with the City of Miami staff.

City of Miami General Engineering Contract – 2002-present Mr. Alonso has provided professional engineering services and project management for various projects under the firm's Miscellaneous Engineering Contract with the City of Miami. The projects have ranged from horizontal roadway improvement and drainage projects as well as vertical projects involving Architecture, structural, MEP design and permitting. Some of the specific projects have included:

- Lummus Park Improvements
- Bayfront Park Electrical Improvements
- Mary Brickell Village Drainage and Roadway Improvements Project
- Overtown Greenway
- NW 14th Street Roadway Improvements

FRANCISCO ALONSO, PE
Project Manager

- NW 8th and 14th Court Roadway and Drainage Improvements
- SW 16th Ave, 17th Street, and 17th Terrace Roadway Improvements
- Dinner Key Marina Harbormaster Trailer and Regatta Launch Ramp
- Virginia Key Weigh Station Project
- Annual FEMA PDM Application Preparation
- Durham Terrace Drainage Improvements Project
- Fairlawn Phase III and Tamiami Storm Sewer Improvements Project Master Plan Improvements
- Fairlwan Storm Sewer Improvements – Phase IIB
- Flagami / West End Storm Sewer Improvements – Phase II
- Fueling Dock: Dinner Key Marina
- Coral Gate Wall

FDOT District Six, SR 5/Brickell Avenue (from South of SE 25 Road to SE 4 Street), Miami, Florida; Engineer-of-Record. Project consists of the design and construction phase services for a pavement reconstruction proposed for 1.7 miles of an existing four-lane divided highway on SR 5 (Brickell Avenue). The work includes concrete pavement design, maintenance of traffic, access management, lighting, signalization and excessive queues associated with the operations of movable bridge openings at the northern end of the project. Responsibilities for this drainage design included managing the drainage design and coordinating between the different disciplines and sub-consultants.

RICHARD A. WATERS, PE
Quality Assurance/Control

Registrations:

PE, Civil-Mechanical Engineering, Florida, No. 45425, 1992

PE, Georgia, No 23921 (Inactive), 1997

Academic

Achievements:

MS, Business Administration, Florida International University, 2000

MS, Mechanical Engineering, Florida International University, 1991

BS, Mechanical Engineering, Geneva College, 1985

Affiliations:

American Society of Civil Engineers

Florida Engineering Society

Mr. Waters has over 25 years of experience including planning, design and construction of municipal roadway and infrastructure engineering improvements that included water/sewer system upgrades and relocation as well as piping modifications, transfer pumps and piping, and construction of enclosures for water supply wells. Mr. Waters has served as Project Manager for a Process Piping Design engineering services contract.

Florida City Water Treatment Plant Emergency Generator: Florida City, Florida

Project Manager for design, permitting, and inspection of refurbished emergency generator at existing water treatment plant. Scope of project included aboveground fuel storage facilities with secondary containment, installation of emergency generator and enclosure, and related mechanical and electrical systems including automatic transfer switch.

Rural Development Administration Grant: Water Treatment Plant Improvements - Florida City, Florida

Project Manager and Engineer of Record for water treatment plant refurbishment project including plant piping modifications, construction of enclosures for existing water supply wells, replacement of plant master meter, and replacement of emergency generator.

Ecolochem Process Piping Design: Ecolochem Corporation - Miami-Dade County, Florida

Project Manager and Engineer of Record for ion exchange media regeneration facility. Project scope of work included acid and caustic storage tanks, transfer pumps and piping, and automated waste treatment/neutralization system prior to discharge of effluent to sanitary sewers.

Apache Products Pollution Control Improvements: Apache Products - Miami-Dade County, Florida.

Project Manager for pollution control improvement project at industrial manufacturing facility. Project included process piping and industrial wastewater storage tanks involving process waste and boiler blowdown with secondary containment. Work also included coordination of building and environmental permitting and final inspection of completed work.

Office of Community and Economic Development Grant: Infrastructure Improvements - Florida City, Florida.

Project Manager and Engineer of Record for multi-year, citywide utility improvement project including potable water main extensions and sanitary sewer and pumping station improvements. Project Budget was \$3 million.

Citywide Water Main Extension Area 1: City of South Miami, Florida

Mr. Waters served as Project Engineer for the professional civil engineering services provided for the construction of water main extensions, which included fire protection and service lines to individual properties with meter boxes. Responsibilities included final construction plans, technical specifications, permitting and bidding assistance, and construction administration. The project consisted of 3,860 feet of 36" water main extension along numerous streets.

SE 3rd Terrace Roadway Corridor: Florida City, Florida

Project Engineer for local roadway corridor development project including coordination of right-of-way mapping and acquisition, and preparation of engineering plans for roadway and drainage improvements.

RICHARD A. WATERS, PE
Quality Assurance/Control

Environmental Protection Agency Grant: Sanitary Sewer Improvements - Florida City, Florida.

Project Engineer for citywide wastewater collection and transmission system improvements project, including preparation of a sewage collection system master plan, preparation of sewer discharge ordinances, review of wastewater rate structure, and preparation of engineering plans for gravity sewage collection systems, sewage pumping stations and sewage force mains.

Economic Development Administration Grant: Potable Water System Improvements - Florida City, Florida.

Project Manager and Engineer of Record for citywide potable water system improvement project consisting of water main extensions and construction of a 500,000-gallon elevated water storage tank. Project Budget was \$5 million.

Northside Utilities and Drainage Project, Miami International Airport, Miami-Dade Aviation Department, Miami, Florida.

Project Engineer/Project Manager for utility corridor improvement project that included water, sewer, communication, electric and drainage facilities, stormwater pumping stations and dry retention/detention pond.

Stormwater Drainage Improvements: City of North Miami, Florida

Project engineer responsible for the stormwater drainage improvements, including analysis of topographic data and percolation testing, calculations, preparation of engineering plans, construction documents, permitting, and construction administration.

Palm Drive Widening: Florida City, Florida

Project Manager and Engineer of Record for highway improvement project consisting of conversion of 2-lane rural highway to 4-lane highway with curb and gutter, sidewalk, positive drainage system, and canal culvert crossings.

Site Civil Improvements: SW 84th Street and SW 70th Avenue - Miami-Dade County, Florida.

Project Manager and Engineer of Record for site civil engineering improvements for an approximately 10-acre commercial development including asphalt and concrete-paved roadway improvements and exfiltration trench drainage system with controlled discharge to an existing canal.

Terminal 4 Expansion and New South Runway, Ft. Lauderdale Hollywood International Airport, Florida

Principal in charge for the Program Management of the new South Runway, adjacent taxiways, high speed exits, north/south runway connector and holding pad at Ft. Lauderdale Hollywood International Airport. The Scope of work also includes management of enabling projects prior to the runway construction, including Terminal 4 replacement of gates, reconfiguration, expansion and required demolition. The services provided by the firm also include technical design reviews of the construction documents prepared by Design Professionals holding direct contracts with the Owner.

Runway 8R /26L Rehabilitation, Miami International Airport, Florida

Principal responsible for the rehabilitation of Runway 8R/26L (10,500 ft by 200 ft) its connecting taxiways and in-pavement lighting replacement for the parallel Taxiway. Services included pavement milling, texturizing, resurfacing, pavement reconstruction, pavement grooving, marking and sodding..

AARON QUESADA

Environmental Scientist

Registrations

Florida Stormwater, Erosion, and Sedimentation Control Inspector Training and Certification Program, #25656, 2011

Academic Achievements

MS, Environmental Science, School of Public and Environmental Affairs, Indiana University, 2005

BA, Biology, DePauw University, 2002

Professional Affiliations

Florida Association of Environmental Professionals; Urban and Regional Information Systems Association

Certifications/Training

Leadership in Energy and Environmental Design (LEED) Green Building Basics Workshop, Gannett Fleming, Inc., 2010

LEED Green Associate Exam Prep Course, Gannett Fleming, Inc., 2010

Project Development and Environment Training Course, FDOT, 2009

Workshop for Wetland Professionals in South Florida, South Florida Association of Environmental

Professionals, 2007

Software Proficiencies

SAS

GFLOW: a groundwater flow modeling software

ArcGIS

ArcPad

TerraSync

Microstation

Mr. Quesada has seven years of experience as an environmental consultant and has worked on several public transit and transportation studies throughout South Florida. He has a strong background in Geographic Information Systems (GIS), research and data collection, analysis to assist clients in complying with the NEPA process, and preparing the associated documentation required for State and Federal funded projects.

FDOT District Four, South Florida East Coast Corridor Transit Analysis Study, Miami-Dade, Broward, and Palm Beach Counties, Florida; Environmental Scientist

Performed a multi-phased study integrating a Federal Transit Administration New Starts alternatives analysis (AA) and Council of Environmental Quality guidance for NEPA studies. Phase 1 duties included developing and circulating a programmatic environmental impact statement (EIS) for this 85-mile-long corridor study (100 miles with connections). Duties involved the environmental aspects of the tiered programmatic EIS, including the preparation of ancillary environmental documents and reports. Aaron was also responsible for providing data collection, GIS, and Efficient Transportation Decision-Making Process services, with an emphasis on streamlining environmental tasks. Phase 2 duties included evaluating and screening the alternative alignments, modal technologies, station areas, and maintenance facility site locations promoted in Phase 1 and educating stakeholders at public meetings. He also aided in the development of a detailed Phase 2 Environmental Screening Report, contributed to the Phase 2 AA Report, and assisted in the development of a customized GIS data model for Phase 2.

FDOT District Six, NW 42 Court Extension Project Development and Environment Study, Miami, Florida; Environmental Scientist

Prepared an Advance Notification package and a State Environmental Impact Report. These reports summarized existing conditions with respect to existing roadways, noise- and vibration-sensitive receptors, transit facilities and services, socioeconomic and environmental conditions, and historic properties in the study area and provided a comprehensive overview of several factors that could have potentially influenced work on the proposed project corridor. The project included a new bridge over the Tamiami (C-4) Canal that was to be located west of the existing bridges and those then under construction in the Central Boulevard/LeJeune Road interchange. Duties involved the environmental aspects of the study, including the preparation of ancillary environmental documents and reports. Aaron was also responsible for providing data collection, GIS, and Efficient Transportation Decision-Making Process services, with an emphasis on streamlining environmental tasks.

FDOT District Six, Historic Swing Bridge Over the Tamiami Canal on NW South River Drive/Delaware Parkway, Project Development and Environment Study, Miami, Florida; Environmental Scientist

Prepared an air quality technical memorandum and various sections of an environmental assessment report, such as those involving community impacts and visual aesthetics. These reports summarized existing conditions with respect to existing roadways, noise- and vibration-sensitive receptors, transit facilities and services, socioeconomic and environmental conditions, and historic properties in the study area and provided a comprehensive overview of several factors that could potentially influence work on the proposed project corridor. Duties involved the environmental aspects of the study, including the running of an air quality screening model using traffic data.

FDOT District Six, Wetland Survey for Parcel 119 (NW 12 Street), Miami, Florida, Environmental Scientist

Performed a field inspection/survey with a portable, handheld GPS unit and accessories for a project involving a wetland jurisdictional determination and subsequent GIS mapping.

AARON QUESADA

Environmental Scientist

Presentations and Publications

Quesada, Aaron, Seeburger, Scott, McMullen, Robert, Gilbert David, and El-Aassar, Ahmed. "Transit Noise Modeling Using ArcGIS." Presented at and published in the proceedings of the 2010 Environmental Systems Research Institute (ESRI) International User Conference, July 13, 2010

Quesada, Aaron, Seeburger, Scott, McMullen, Robert, Villanueva, Marialuisa, and Laas, Michael. "Using GIS Analysis for Public Involvement and Environmental Justice." Presented at and published in the proceedings of the 2007 Environmental Systems Research Institute (ESRI) International User Conference, June 20, 2007

FDOT District Six, SR 916/NW 138 Street Roadway Improvement, Miami, Florida; Environmental Scientist

Provided data collection, GIS, and efficient transportation decision-making process services, with an emphasis on streamlining environmental tasks.

FDOT District Six, SR 907/Alton Road Project Development and Environment Study, Miami, Florida; Environmental Scientist

Provided data collection, GIS, and efficient transportation decision-making process services, with an emphasis on streamlining environmental tasks.

FDOT District Six, Miscellaneous Environmental Services, Pre- and Post-Construction Compliance Services, Miami-Dade and Monroe Counties, Florida; Environmental Scientist.

Performed field reviews to identify potential problems with the construction contractor and was involved with the installation of an advanced traffic management system that may have had environmental compliance within the highly sensitive natural resource areas/habitats of the Florida Keys. Work included identifying and documenting habitats and the associated wildlife and making recommendations for the cleanup and stabilization of sensitive sites following construction. A total of 29 locations were identified where preconstruction site meetings to identify erosion control measures, sediment staging, and runoff control measures should be held and where construction and post-construction site inspections should be conducted.

FDOT District Six, US Route 1 Wildlife Mortality Survey, Miami, Florida, Environmental Scientist

Performed biweekly field visits to identify, record, and document deceased wildlife along an 18-mile stretch of roadway and right-of-way. Work included identifying wildlife with the aid of wildlife field guides and recording its position with the use of a GPS device, and monitoring constructed wildlife crossings using motion sensing camera equipment. Recorded wildlife was integrated into a geographic database and mapped for future reference and incorporation into reports for the client.

Miami-Dade Expressway Authority, US 1 Express Lanes Project Development and Environment Study, Miami, Florida, Environmental Scientist

Provided environmental services to evaluate modifications and enhancements to the South Miami-Dade Busway (Busway) to allow toll paying, private vehicles to travel on some or all of the Busway, which would operate as a tolled managed lane facility. The proposed project would include improvements to SR 5/US 1 and the Busway from approximately SR 9336/SW 344 Street/Palm Drive to just north of SR 878/Snapper Creek Expressway at SW 80 Street. Tasks included data collection, GIS services, NEPA analysis, and documentation required based on the Class of Action. Additional duties involved the preparation of ancillary environmental documents and reports, efficient transportation decision-making process services, quality control (QC), and the development of a customized GIS data model to screen project alternatives.

City of Miami Beach, West Avenue Bridge Project Development and Environment Study, Miami, Florida; Environmental Scientist

Provided environmental services to evaluate the construction of a new low-level bridge on West Avenue over the Collins Canal. Tasks included data collection, GIS services, NEPA analysis, and documentation required for the production of a Categorical Exclusion Type II. Additional duties involved assisting with the preparation of ancillary documentation and reports such as an endangered species biological assessment, efficient transportation decision-making process services, and QC.

ALDOLFO O. CANAL, PE

Civil Engineering

Registrations

Professional Engineer,
Florida, #48072

Academic Achievements

BS, Civil Engineering,
Florida International
University, 1990

BS, Civil Engineering,
Unicosta University, 1982

Mr. Canal has provided airfield engineering services for commercial and general aviation airports for more than 30 years. Services include runway overlay and design, aprons, taxiways, access roads, as well as the development of construction phasing for projects for both existing and new airport facilities.

Runway 8R-26L Rehabilitation, Miami International Airport, Miami, Florida.

Engineer responsible for the design of the pavement and drainage components for the rehabilitation of Runway 8R-26L (10,500 ft by 200 ft). its connecting taxiways and in-pavement lighting replacement for the parallel Taxiway M. Services included pavement milling, texturizing, resurfacing, pavement reconstruction, pavement grooving, marking and sodding. The project also incorporates runway and taxiway airfield light system replacement and upgrades including; conduit, conductor, base cans, fixtures and transformer replacements, grade adjustments, and threshold MALSR lighting replacement.

Runway 12-30 Pavement Rehabilitation, Miami International Airport, Florida.

Project Engineer for the design and for the rehabilitation of a 9300 ft runway and parallel taxiways.

New Runway 8L-26R: Miami International Airport, Miami, Florida.

Engineer of Record for the geometrics, paving and grading for an airfield capacity improvements project which involved a new 8,600 ft long air carrier runway plus 17,500' of new taxiways and related airfield lighting. This project included 3 new concrete aprons; 2 for cargo airplanes and 1 for the maintenance facility.

Gate D1-D2 Passenger Boarding Bridge (PBB) A-380 Gate Modifications at Miami International Airport, Florida. Lead Civil engineer for the design of two new PBBs and fixed walkways to provide upper level door service for A380 aircraft for existing aircraft parking gates at Miami International Airport. The project also included Pre-Conditioned Air and 400Hz Ground Power Modifications.

Gate J-17 Passenger Boarding Bridge Modification for A380, Miami International Airport, Florida. Mr. Canal provided civil design for the improvements on gate J17 to accommodate the Airbus A380. Design included coordinate location of the Passenger Boarding Bridges, Aircraft layout for adjacent gates, pavement marking and Maintenance of Traffic.

Concourse E and E Satellite Extension, Miami International Airport, Florida. Mr. Canal was the Engineer of Record for the civil engineering components of this project that consisted of the design and construction phase services for new Passenger Boarding Bridges (PPBs), apron pavement repairs, new PCAir and 400 Hz ground power units, and new hydrant pits for existing Concourse E gates. The work included preparing equipment procurement specifications for eleven (11) PPBs, PCAir units and 400 Hz units, and then preparing general construction packages for construction of PBB foundations and 15,000 square yards of apron pavement.

Documents were prepared to install new hydrant pits to service aircraft in relocated positions. New aircraft marking plans and details were prepared to reflect the new aircraft mix to be serviced. This expedited design and construction project will provide eleven (11) newly refurbished gates for American Airlines to supplement the North Terminal operations.

TYLI engineers worked closely with MDAD staff, fuel suppliers, and multiple contractors to address unforeseen fuel system issues in order to minimize delays to the project schedule and gate openings. TYLI engineers also offered unique backfill

ALDOLFO O. CANAL, PE

Civil Engineering

procedures using controlled low strength materials to accelerate the subsequent pavement construction.

Tract One Apron: Miami International Airport, Miami, Florida. Engineer of Record for the paving, grading, utilities, structures, maintenance of traffic, safety plans and pavement design for a 30,600 square yard Portland Cement concrete apron, a 48,000 square yard asphalt pavement for taxilanes, and a 9,500 square yard flexible asphalt pavement for aircraft parking.

H-J Utility and Pavement: Miami International Airport, Miami, Florida. Engineer of Record for new aircraft apron, a part of the South Terminal Expansion project at Miami International Airport. The new aircraft apron will serve the New Concourse J and includes 14 aircraft positions.

Runway 9L-7R Strengthening by Asphalt Overlay - Opa Locka Airport, Miami, Florida. Mr. Canal was responsible for the preliminary investigations, design and coordination of construction for the application of an asphaltic concrete strengthening overlay for Runway 9L/27R at Opa Locka Airport. The project included evaluation of existing rigid and flexible runway pavements, grading and safety constraints, airport tenant operations demands, alternate construction schedule concepts, & NAVAID modifications to serve on-going flight operations.

Airside Civil Engineering Services: North Terminal Development - Miami International Airport, Miami, Florida. Deputy project manager and Engineer of Record responsible for the design, apron, taxiways, utilities, drainage and construction phase services divided into 5 different projects.

Concourse 'A', Miami International Airport, Miami, Florida. Engineer of Record for design of the new 104,394 square yard concrete apron serving 20 aircraft gates, and the design of the lead-in taxiway linking the apron with the airfield, which included grading, drainage and utilities.

Midfield Phase III-C, Package II, Miami International Airport, Miami, Florida. Project Engineer for the Package II, which includes two (2) taxilanes for B-767-300 aircraft or smaller, and connection of the Midfield with the Terminal, and extensions of the drainage system connecting the Midfield with the existing drainage.

New Parallel Runway, Charlotte Douglas Int'l Airport, Charlotte, North Carolina. Senior Aviation Engineer for the design services for the airfield lighting and NAVAIDs system for the design of the new 9,000 foot (2,743 meter) Parallel Runway (the Airport's 4th Runway and its 3rd Parallel Runway) at Charlotte Douglas International Airport, North Carolina.

Taxiway & Ramp Rehabilitation Program at Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, Florida. Senior Aviation Engineer for airfield civil design for the Taxiway and Ramp Rehabilitation program at Fort Lauderdale-Hollywood International Airport. The work includes airfield pavement design, paving, grading, maintenance of airside traffic, maintenance of airline operations (alternative gate usage), permitting and coordination.

ADRIANO I. FOTI, PE

Ground Transportation

Registrations

*Professional Engineer,
Florida, #49938, 1996*

Academic Achievements

*MSCE, Florida
International University,
1994*

*BSCE, UACA San Jose
Costa Rica, 1989*

Certifications

FDOT MOT

FDOT Lighting

FDOT PDE

Mr. Foti has over 25 years of highway design experience and has designed many complex highway projects in Florida at both the planning and final stages. His expertise includes geometric designs, signing, striping, lighting, traffic engineering, traffic control plans, typical section definition, cost estimates, traffic and geometric concepts analysis and design. Mr. Foti is also the author of various traffic reports and documents covering Resurfacing, Restoration and Rehabilitation (RRR) of highways and Preliminary Engineering Reports as part of Project Development and Environment (PD&E) Studies. His participation in special projects include the Central Florida Lynx LRT and Public Private Partnership (PPP) Design-Build projects such as the I-595 corridor for which he played a key role during the proposal preparation, final design and post-design services of three of nine construction packages.

Tocumen International Airport, Landside Airport Roadways, Civil and Utilities Design, Panama City, Panama. The project encompassed improvements to the airport landside transportation network and civil and utility works for the new south terminal expansion project. Mr. Foti served as Engineer of Record for improvements to the airport landside transportation network and civil and utility works which included improvements to the airport landside transportation network and civil and utility works for the new south terminal expansion project.

SR 836 Operational and Capacity Improvements Design-Build, Miami-Dade Expressway Authority, Miami-Dade County, FL; Roadway Engineer of Record. SR 836 is a high-profile, heavily traveled east-west corridor in Miami and is the gateway for drivers to and from Miami International Airport. TYLI is the lead designer for this \$149M project to add lanes and provide capacity-related improvements to a 4.89-mile segment of limited-access expressway. TYLI's design team developed several innovative Alternate Technical Concepts that were approved by the Owner and allowed the Contractor to submit a competitive bid and a very aggressive schedule. One approved ATC proposed use of a diverging diamond interchange (DDI), a concept that is fairly new in the US. TYLI will be responsible for all roadway and drainage design elements as well as the design of 31 bridges at 25 locations along the corridor. Mr. Foti is serving as the Deputy PM and the Roadway Engineer of Record on this project.

SR 23 Toll Road Design-Build from North of Argyle Forest Boulevard to I-10, (North Segment), FDOT District 2, Jacksonville, FL; Lead Designer/EOR. This design-build project located outside of Jacksonville is approximately 6 miles in length and involves converting existing SR 23 to a Toll Facility by providing three limited access interchanges at Argyle Forest Boulevard, SR 134 (103rd Street), at SR 228 (Normandy Boulevard), and New World Avenue. The project includes four new pre-stressed concrete two-span bridges, six permanent and temporary MSE walls, two noise walls, three new box culverts, three box culvert extensions, mast arms, sign structures, and critical temporary walls. Additional improvements include; crossroad improvements, installation of four FTE electronic tolling gantries, MEP design for tolling structures, signalization, lighting, and an ITS system. The ITS included the construction of fiber optic cable along 7.9 miles of I-10 and 33 miles of SR 9 (I-95). Mr. Foti served as Lead Designer/Roadway Engineer of Record and was responsible for the project layout and coordination with other designers.

ADRIANO I. FOTI, PE

Ground Transportation

New East/West Highway Corridor (NW 74 Street), From Palmetto to HEFT, Miami, Florida; Design Manager. Two major interchanges with existing highways and multiple typical section alternatives for the four-lane divided facility. The project included toll plazas and weaving sections with local streets. The major design constraints were utility easements, heavy rail transit lane, railroad, industrial building area and a landfill.

Port of Miami Inter-Modal Transportation Master Plan; Design Manager. Inter-Modal Transportation 2020 Master Plan for the Port of Miami development. Completed roadway circulation design concepts and performed traffic operations analysis on the proposed concepts. Developed MOT plans for port cargo traffic and cruise passengers traffic during construction. Coordinated with multiple port, county and state departments and private stakeholders in the development of the preferred alternative to include parking, transit, pedestrians, luggage handling, safety, security and cargo operations. Preferred alternative was compatible with FDOT tunnel to Watson Island.

SR 23 Toll Road Design-Build from SR 21 (Blanding Blvd.) South of Argyle Forest Boulevard, (South Segment), FDOT District 2, Jacksonville, FL; TCP Designer/Engineer of Record. The design-build project is to construct 7 miles of SR 23 from SR 21 (Blanding Boulevard) to south of Argyle Forest Boulevard. This project is the second segment that interfaces with the SR 23 North project. The improvements include the construction of a four-lane limited access mainline facility, three interchanges, and ten new bridges. Additional improvements include construction of interchanges at Blanding Boulevard, Argyle Forest Boulevard, and Oakleaf Plantation Parkway; slip ramps to the Branan Field Frontage Roads; construction of crossroad improvements; 2 miles of six-lane urban reconstruction of Blanding Boulevard; construction of twin overpass structures over Trail Ridge Road and over Old Jennings Road; construction of one new bridge and one bridge widening over the South Prong Double Branch; and construction of four all-electronic tolling gantries, lighting system, and ITS with CCTV, MVDS and DMS's

I-295 Express Lanes from Buckman Bridge to I-95 South Interchange, FDOT District 2, Jacksonville, Florida; Senior Roadway Designer. This design-build project involved widening approximately 5 miles of an urban freeway/expressway, including full roadway reconstruction and milling/resurfacing/widening of the San Jose Boulevard and Old St. Augustine Road interchange ramps. The project included bridge widening of I-295 over Scott Mill Road, San Jose Boulevard, and Old St. Augustine Road; extending bridge culverts; design and construction of noise walls; and storm water management treatment. As lead designer, TYLI was responsible for providing a Traffic Control Plan, utility coordination, signing and pavement markings, lighting, signalization, and ITS/tolling plans. Mr. Foti is served as senior roadway engineer on this project and has been responsible for the geometric layout of the controlled access highway and interchange ramps.

AHMAD HAMMOUD, PE, LEED AP

Senior Mechanical Engineer

Registrations:

PE, Mechanical Engineering, Florida, New York, Georgia, Pennsylvania, Maryland, South Carolina, Alabama

LEED Accredited Professional

Academic Achievements:

MBA, Marketing concentration, Florida International University, 2008

MS, Mechanical Engineering, Wayne State University, 2002

BS, Mechanical Engineering, Wayne State University, 2000

Affiliations:

American Society of Heating Refrigeration and Air-Conditioning Engineers (ASHRAE)

*US Green Building Council (USGBC)
Member of the South Florida Chapter*

*Florida Engineering Society (FES)
Member of the Energy Committee.*

Mr. Hammoud has over 13 years of mechanical engineering experience including design and inspection of heating, ventilation and air conditioning systems, life safety systems, computer modeling, life cycle cost analysis and project management. As a LEED AP, Mr. Hammoud has provided design services for major improvement projects at airports, institutions, and support infrastructure facilities for public and private clients. In addition, Mr. Hammoud serves as the firm's Corporate Quality Officer.

Some of the projects for which Mr. Hammoud has performed professional engineering services include:

Greystone Hotel, Miami Beach, FL

Project engineer for the renovations of a 24,000 sf hotel in South Beach, FL to accommodate, luxury suites, restaurants, spa facilities and other amenities. Services included HVAC systems, plumbing and lighting system designs.

Air/Seaport Fire Station and Fire Warehouse: Broward County, Florida

Provided the mechanical design and construction phase services for the HVAC systems of the proposed Air/Seaport Fire Station and the Broward Fire Department Warehouse. The work included apparatus rooms (ventilation), Fire Fighters residential area with kitchen, storage areas, and special training and decontamination areas.

HAZ-MAT Fire Station: Broward County, Florida

Provided the mechanical design and construction phase services for the HVAC systems of the proposed HAZ-MAT Fire Station. The work included apparatus rooms (ventilation), Fire Fighters residential area with kitchen, storage areas, and special training and decontamination areas. The project square footage includes 16,475 gross square feet for the Station.

Air Handlers Replacement: Miami Dade County Public Schools, Florida.

Project Manager for projects consisting of replacing existing air handling units in multiple schools along with retrofitting the existing pneumatic air distribution system with a new digital system. The work includes the inspection of existing facilities, plans review and design of HVAC system and coordination work coordination between contractor and School Board staff. Locations where work performed include Citrus Grove Centennial Middle and W.R. Thomas.

Consolidated Rental Car Facility: Miami Intermodal Center, Florida

Mr. Hammoud has designed the fire sprinkler system for the lobby of the proposed 4,000,000sf parking facility intended to consolidate the location of various rental car providers serving Miami International Airport.

Building Engineering Services: Broward County Schools, Broward County, Florida

Project manager for an on-call assignment encompassing the building design improvements of various Broward schools. The work performed on over 48 locations includes the inspection of existing facilities, plans review and design of HVAC, plumbing and fire protection systems, including NFPA design guidelines, permitting and coordination with Florida Power & Light Co. and School Board staff.

FPL, City of Miami Energy Conservation Measures:

Mr. Hammoud Served as Project Manager and Project Engineer. The project consists of the following:

- Survey of existing mechanical systems at different City of Miami sites:

AHMAD HAMMOUD, PE, LEED AP

Senior Mechanical Engineer

- City Hall, Fire and Police Stations, Community center and a theater.
- Developing computer generated energy modeling for the existing conditions.
- Providing Energy Conservation Measures (ECM) through equipment upgrades and or modifications.
- Developing computer generated energy models to quantify savings associated with the different proposed alternatives. Prepare bid documents and drawings for the proposed solutions.

FPL, City of Miami LEED Studies:

Mr. Hammoud served as Project Manager and Project Engineer. The project consists of the following:

- Survey 11 City of Miami facilities: City Hall, Fire and Police Stations/facilities, community centers, recreational parks and theaters.
- The survey included mechanical, electrical and plumbing systems along with site and architectural characteristics.
- Develop a point tally of the existing conditions at each site based on the LEED 2009 Existing Building: Operations & Maintenance credit system.
- Prepare a study for each site aimed at identifying upgrades and modifications to achieve LEED certification along with a feasibility analysis for the potential credits.

General Engineering Consultant, Florida Turnpike Enterprise:

As part of this contract, the firm is acting as an extension of the turnpike staff, performing design review for the mechanical and plumbing elements in the transitioning of all current toll booths to an Open Road Tolling (ORT) system. The scope of the project includes the demolition of existing toll booths and the construction of new gantries with corresponding equipment buildings. In addition to this, the firm is providing mechanical, plumbing, fire protection and sustainable design services for all new and renovated service plazas along the Florida Turnpike.

Jackson's Soul Food Restaurant Renovation, Miami, Florida

Mr. Hammoud served as mechanical engineer for the design of the Jackson's Soul Food Restaurant Renovation in City of Miami. The work included two new kitchen areas, two dining areas (main room with bar and family room), storage area, restrooms, office area, and exterior (facade) improvements. He was responsible for the new HVAC system in the expanded building and to replace the entire existing HVAC system for the building portion that remained. Work included calculations for energy consumption and heat loads, new equipment selection, and new duct layout.

McDonald's Restaurants, throughout the State of Florida

Mr. Hammoud served as project manager and mechanical engineer renovations of over 80 McDonalds Restaurants in Florida. These renovations are part of the Mc Café program which will provide a full-service coffee bar located in McDonald's restaurants as an extension of the restaurant facilities. Services include existing site conditions inspections, renovations and remodeling to existing restaurants, addition of new plumbing fixtures and electrical panels while adhering to local building codes, assisting in the permitting process and construction oversight.

CHARLES K. DEEB, PE, LEED® AP BD+C

Intermodal Services Task Leader

Academic Achievements

BS, Civil Engineering,
University of Miami, May
1981

Professional Registrations

Professional Engineer:
Florida #36069
LEED® Accredited
Professional, July 2008

Certified Crime Prevention
Through Environmental
Design (CPTED) Professional
September, 1998

Training

Federal Aid Highways,
National Highway Institute,
2014

Affiliations

ASCE

ASHE

AREMA

Mr. Deeb has 35 years experience in the planning, design and construction administration of transportation and infrastructure improvement projects. His expertise encompasses management of entire projects from scope determination through design and construction services, supervision of engineering staff, coordination with subconsultants and clients. Mr. Deeb's expertise involves planning, design, bidding, and construction administration services.

Eller Drive Overpass ICTF (US 1 to McIntosh Road), FDOT District 4, Fort Lauderdale, FL; Project Manager. Mr. Deeb managed the design of this \$45 million interchange and expressway connecting Interstate 595 to Port Everglades' Intermodal Container Transfer Facility as part of Florida's Strategic Intermodal System (SIS). The roadway also provided a direct connection to the Port from Fort Lauderdale-Hollywood International Airport. He also managed the post-design services for the first year of construction.

Lauderhill Mall Transit Facility Study, Modal Development and Broward County Transit, FL. Provided design concepts for a new bus transit facility within the Lauderhill Mall site to replace an existing bus station. The new concept provided a structural canopy over eight bus parking positions, including two positions for articulated buses.

Shared Use Path—Florida Keys Overseas Heritage Trail, Grassy Key and Big Coppitt Key, FL; Senior Engineer: Responsible for managing the civil design of 11 miles of shared use path. This included all geometrics, variations for trail offset from roadway, and coordination with permit agencies and the FDOT.

Florida East Coast Railway Intermodal Container Transfer Facility (ICTF), PortMiami, FL. Mr. Deeb was the project manager for one of the shortlisted design-build teams that prepared 30% construction drawings for the FEC ICTF at PortMiami. Although not selected for the final design, TYLI prepared a complete site layout for the ICTF including 9,000 linear feet of working track with a connection to the FEC industry track entering the port. The project was constrained to 13.2 acres and included nearly 11.7 acres of pavement for reach stacker and truck maneuvering. The facility was designed to accommodate container on flat car (COFC) operations with an ultimate capacity of 200,000 annual lifts. The site was designed for rubber-tire gantry (RTG) cranes.

US 27 Multimodal Planning and Conceptual Engineering Study (PACE). Mr. Deeb managed this planning study to determine the technical and economic feasibility of creating a multimodal corridor along US 27 by including a freight rail component. The project covered 75 miles from northern Miami-Dade County to the Palm Beach County/Hendry County line. In addition to the freight rail component, the study also addressed roadway improvements for the entire corridor to address access to adjacent facilities for the new railroad, intersection improvements, overpasses, and interchange reconfigurations to include the intersecting railroad.

Florida East Coast Railway, High-Speed Intercity Passenger Rail Service, Amtrak Service on Florida East Coast Railway, Jacksonville to Miami, FL. The project involved a new High-Speed Intercity Passenger

CHARLES K. DEEB, PE, LEED® AP BD+C

Intermodal Services Task Leader

Rail Service study on the existing Florida East Coast Railroad for Amtrak Service from Jacksonville to Miami. The Federal Railroad Administration required a Project-Level EA per the National Environmental Policy Act (NEPA) for funding to the FDOT.

TYLI provided Project NEPA documentation and prepared the final Environmental Assessment document for the FDOT to submit a grant funding application to the FRA, requiring the project to be intensely accelerated to meet the grant application deadline. Mr. Deeb managed this project where the public involvement included 18 public workshops and design sessions in 9 cities where stations or major improvements were proposed. He also directed the entire environmental analysis, station layout concepts, track adjustments, and the preliminary engineering for the project.

South Florida Regional Transit Authority (SFRTA), Train Stations (Tri-Rail), FL; Project Manager. Provided project management and design of parking lots, boarding platforms, drainage and utility systems for train stations at NW 79th Street in Hialeah, Sheridan Street in Hollywood, and Broward Boulevard in Fort Lauderdale. Coordinated work with SFRTA, FDOT, and other agencies in providing overall master plan and design services. Provided construction administration services on the NW 79th Street Station project. Reference no longer with SFRTA.

SFRTA, Opa-Locka Station, Opa-Locka, FL. Provided design and construction administration services on this design-build project. Coordinated work with the contractor and the owner's representative throughout all phases of the project. This \$850,000 project was completed on time and within owner's budget. BCL Construction, Bill Boyle, No longer with SFRTA.

Mercer University Pedestrian Bridge, Macon. Mr. Deeb managed this signature pedestrian bridge project and provided Owner's Representative services for a joint development project with Macon-Bibb County, Mercer University, and a private housing developer. The bridge connects a proposed housing development to the Mercer University Campus at the football stadium entrance. The main span over Mercer University Drive is a tied arch structure that connects the Lofts housing development to an elevator and monumental stair at Mercer University..

COLIN P. HENDERSON

Environmental Scientist

Registrations:

*OSHA Hazardous
Materials Site Safety
Supervisor*

*OSHA Hazardous
Materials Emergency
Responder*

*DOT HM-181
Hazardous Materials
Handling*

*FDOT Water Quality
Impact Evaluation*

*FDOT Traffic Noise
Analysis*

*Member: National
Association of
Environmental
Professionals*

Academic Achievements:

*MS, Environmental
Engineering, Florida
International
University, 2000*

*BS, Wildlife and
Fisheries Biology,
University of
California, Davis, 1986*

Certifications:

NAUI – Open Water
Diver

Mr. Henderson has 25 years of experience in environmental impact assessment, wetland delineation, biological monitoring, and emergency response, and remediation. His work encompasses project management, preparation of contamination assessment and remediation reports, biological monitoring, audit compliance, and emergency spill response. He experienced in construction oversight and coordinating with regulatory agencies and is proficient at obtaining environmental permits for mitigation and construction projects.

Some of the projects for which Mr. Henderson has conducted professional services include:

Design and Permitting - Florida Keys Overseas Heritage Trail, Department of Environmental Protection, Florida Keys, Florida

Mr. Henderson managed the civil design and environmental permitting/coordination for the Florida Keys Overseas Heritage Trail. This bicycle/pedestrian path runs the length of the Florida Keys, adjacent to US 1, from Key Largo to Key West and includes coordination with the FDEP, FDOT, USACE, US Navy and SFWMD. The project was constrained by mangrove wetlands and the existing roadway; therefore, due to the narrow available corridor, extensive coordination is required to minimize wetland impacts while meeting FDOT requirements.

PD&E Study for Lower Matecumbe Key Intersection Improvement in Monroe County

Mr. Henderson served as project environmental scientist for this project that addresses the operational and safety concerns of turn lanes and intersections while maintaining consistency throughout the Florida Keys. The firm is responsible for identifying and evaluating properties for contamination potential.

Key West Harbor Dredging, US Army Corps of Engineers - Monroe County, Florida

Project manager responsible for the supervision of environmental coordination, seagrass identification, dredge quantity survey certification and landside engineering support for this \$36.4 M dredging project which includes the movement of approximately 819,000 cubic yards of material. The project will have two disposal areas: an approved ocean disposal area 16 nautical miles south of Key West and a 37-acre upland site on Fleming Key.

FDOT District 6: Mitigation Monitoring: US-1 Improvements (between Florida City and Key Largo), Florida

Project manager responsible for the data collection and interpretation, and preparation of mitigation monitoring reports for 4 wetland mitigation sites totaling 385 acres of which 250 acres are in the Crocodile Lakes National Wildlife Refuge. Restoration and enhancement involved spoil removal and canal backfilling in mangrove and sawgrass marsh habitats bordering Biscayne Bay and Everglades National Parks.

Dinner Key Marina, City of Miami, Florida

Mr. Henderson was responsible for the design oversight and environmental resource permitting for the proposed fuel dock. Design included an upland fuel farm and 40' x 60' concrete dock. The agencies involved included federal dredge & fill permit for construction activities (USACE), an environmental resources permit and authorization to use sovereign submerged lands (FDEP), and a Class 1 permit for coastal construction (DERM).

COLIN P. HENDERSON
Environmental Scientist

FEMA Pre-Disaster Mitigation (PDM) Grant Program/Hurricane Mitigation Grant Program (HMGP) Grant Applications – 2008, City of Miami, Florida

Providing all project management and engineering services to gather and collect the necessary information to complete and submit the PDM applications through FEMA's Electronic Grants Management System (eGrants). Successfully prepared and obtained grant funds for 5 storm sewer projects for the City of Miami. Currently assisting the City of Miami Department of Capital Improvements Program in submitting grant applications for municipal storm sewer projects located within the City, specifically in the following areas: Englewood, Kinloch, Northwest, Glenroyal, San Marco Island.

Design/Build Seawalls: Keystone Point Community - City of North Miami, Florida

Responsible for the permitting of new seawalls at 22 locations within the Keystone Point Community. Environmental permits were obtained through DERM, ACOE, and FDEP to preserve wetland habitat and water quality in the surrounding areas during construction.

Berman Park Preserve Mitigation Area: Town of Davie, Florida

Managing the environmental permitting/coordination for this 33.7-acre Berman Park Preserve, which was used by a developer to perform off-site mitigation activities for unavoidable wetland impacts. After five years of successful monitoring and maintenance the site is to be turned over to the Town of Davie to maintain in perpetuity. Activities involve review of historic information (mitigation monitoring reports, permits, Town files), site visits, preparation of report of findings and recommendations, regulatory agencies and developer's representatives, and review of proposal to bring the mitigation site into compliance with permit conditions.

Park View Island Shoreline Restoration, City of Miami Beach, Florida

Project Manager for the Park View Island Shoreline Restoration Project which will restore and enhance the shoreline along the Park View Island Canal from 73rd Street to 77th Street in Miami Beach. Seawalls and natural shorelines in this area have experienced extensive deterioration and erosion over the years. Restoration of this area will enable the placement of a proposed bike path providing linkage for pedestrians and bicyclists between 71st street and the Biscayne Point Neighborhood as well as one of the only mangrove ecosystems in North Beach. The services to be provided include a Conceptual Design and Environmental Resource Survey.

PD&E Study: SR-5 / Brickell Avenue (from South of SE 25th Rd. to SE 4th St.) in Miami-Dade County

Mr. Henderson provided the environmental impact services including GIS analysis, contamination assessments, wetlands delineation, and wildlife surveys associated with the planning and preliminary engineering study for a 3R project proposed on 1.7 miles of an existing four-lane divided highway on SR-5.

Environmental Review – Port of Miami Tunnel – Miami, Florida

As part of a technical advisor team supporting the Florida Department of Transportation, Mr. Henderson served as Senior Environmental Scientist responsible for environmental review, permitting and environmental compliance of the project. The Tunnel project would link the Port of Miami with the adjacent Interstate system, thereby improving the passenger and cargo movement to and from the Port.

DAVID GJERTSON, PLA, ASLA

Senior Landscape Architect

Registrations

Licensed Landscape Architect in the States of:

Georgia #1444, 2009

Florida #0001141, 1987

South Carolina #1091, 2009

North Carolina #1588, 2009

Academic Achievements

Bachelor of Landscape Architecture, University of Wisconsin, 1976

Awards/Certifications

Regional Pattern Book Charrette 2007 ASLA Table Leader

Georgia Institute of Technology—Guest Lecturer 2002-2004—“Urban Studies”

Atlanta Regional Commission (ARC)—Jury Member for Awards of Excellence 2003

American Society of Landscape Architects – Georgia Chapter-Executive Committee Member 2011

Washington, North Carolina Downtown Revitalization Program-2007 Georgia ASLA Merit Award

Yellow River Regional Park –2006 ASLA Award

South Rome Redevelopment Master Plan-2004 ASLA Award

US17 Corridor Design Guidelines (2002)—National Association of Development Organizations Research Foundation (NADO) Innovation Award

French Broad River Park Master Plan – 2003 Georgia ASLA Award

Mr. Gjertson has 31 years of landscape architecture experience specializing in neighborhood revitalization, redevelopment master planning, form-based codes, urban design guidelines, code review and transportation corridor enhancement planning and design. His project work includes the design and construction management of urban plazas, streetscapes, roadway corridors, urban parks and wayfinding systems. Mr. Gjertson is a recognized expert in philosophies of Smart Growth and New Urbanism and has applied this knowledge to the project management and design of over 50 projects. Mr. Gjertson’s project responsibilities include: project conceptualization and design; project management; client presentations and public involvement facilitation; planning document authorship; consultant teaming strategies; multi-disciplinary staff coordination; construction documentation and review and construction management.

City of Sarasota, Master Plan of the Commercial Tourist District on St. Armands Key, Sarasota, Florida; Lead Consultant and Project Manager

The purpose of the master plan was to provide a framework for the redevelopment of the aging St. Armands Circle commercial district. The projects goals were to improve parking access quantity and access, provide redevelopment scenarios for the two “quads” of St. Armands Square and facilitate a comprehensive public involvement project.

Central Pasco Employment Village (CPEV), Area Plan, Pasco County, Florida; Lead Consultant and Project Manager

The Area Plan was initiated in 2007 by the Pasco County Florida Board of County Commissioners for approximately 2,400 acres of private property centrally located in Pasco County. The resulting CPEV Area Plan fulfilled the vision to create a Live/Work/Play community to provide jobs, housing and recreation opportunities with exceptional livability standards and protection of the natural environment.

City of Bradenton, Bradenton Waterfront Promenade and Streetscape, Bradenton, Florida; Lead Consultant and Project Manager

The riverfront park and activity center located on the Manatee River was designed as a one-mile riverfront promenade and features a 12-foot wide walkway, dedicated green space for park activities, tensile structure amphitheatre, wood decking underpass below US 41 connecting to the Bradenton City Center, “dragon” sculpture spewing water that passes beneath and over the top of the boardwalk, 35-foot gateway tower with concessions and restrooms, period lighting, benches, and landscaping. This project is part of a \$250 million revitalization of the Bradenton waterfront and connects the downtown core with the commercial district.

City of Sarasota, Sarasota Main Streetscape, Sarasota, Florida; Lead Consultant and Project Manager

The project extended from US 41 to Orange Avenue in Sarasota. This \$3 million project was funded largely through an EDA (Economic Development Administration Grant). The project was vital to the redevelopment of downtown Sarasota and includes interactive fountains, outdoor restaurant plazas, an amphitheatre, and traditional lighting and brick sidewalks.

Town of Spring Lake, Master Development Plan, Spring Lake, North Carolina; Lead Consultant and Project Manager.

Provided a Master Development Plan for a 1,200-acre Urban Center Study Area. Phase 1 of the Plan included inventory and assessment of existing conditions, an economic overview of the Town of Spring Lake Study Area including: business and industry conditions and real estate trends and development trends and conditions over the recent past. A comprehensive community involvement strategy resulted in a Summary of Issues, detailed SWOT Analysis and a Concept Development Plan that will guide redevelopment in the Urban Core and surrounding neighborhoods.

DAVID GJERTSON, PLA, ASLA

Senior Landscape Architect

Professional Affiliations

*American Society of
Landscape Architects
Congress for New Urbanism
Urban Land Institute
(Associate Member)
American Planning
Association*

I-395 Urban Design Project, Miami, Florida; Lead Consultant and Urban Design Project Manager

The primary issues addressed in this section relate to the public and private realm urban design elements including; streetscape design, storm water retention area design, gateways, open space design, transit oriented development principles, pedestrian connectivity, site planning and built form. The context of the I-395 Reconstruction Project is unique from an urban design perspective. It is a multiple-corridor master plan situated below an elevated roadway and bridge system. It encompasses several blocks of a grid street system that is not aligned with the structure above. The resulting urban “pattern” below the roadway structures is an existing street network and vacant parcels presently fenced and inaccessible to pedestrians.

City of Cocoa, Cocoa Waterfront Park, Cocoa, Florida; Lead Consultant and Project Manager

The City of Cocoa Waterfront Park was the first phase of a comprehensive revitalization plan for the City. David designed and managed the park to include as a linear boardwalk extending one quarter of a mile along the inter-coastal waterway in Cocoa. The boardwalk also includes several large gazebo structures designed with interpretive displays, seating and vending space. The project was permitted through the State of Florida Department of Natural Resources and has become a signature project other cities on the east coast of Florida.

City of Bradenton, Bradenton Waterfront Promenade and Streetscape, Bradenton, Florida; Lead Consultant and Project Manager

Riverfront park and activity center for the City located on the Manatee River. Features of this one-mile river front promenade included a 12-foot wide boardwalk, dedicated green space for park activities, tensile structure amphitheater, FDOT approved underpass below US 41 connecting to the Bradenton City Center, “dragon” sculpture spewing water that passes beneath and over the top of the boardwalk, 35-foot gateway tower with concessions and restrooms, period lighting, benches, and landscaping. This project was part of a \$250 million revitalization of the Bradenton waterfront and connects the downtown core with the commercial district.

Florida Department of Transportation (FDOT), US 64 Highway Beautification, Bradenton, Florida; Lead Consultant and Project Manager

The project was for 15-miles of state-owned roadway and was titled “Gateway to Manatee–Landscape Beautification.” It featured landscaping and irrigation according to FDOT guidelines and specifications. An emphasis was placed on the utilization of native plants and water conservation. Several innovation methods for applying irrigation were explored including; multiple shallow wells, deep aquifer wells and application of reclaimed water through the use of stand pipes and water trucks. A large area was set aside for habitat restoration at the Manatee River crossing featuring wetland plants, recontoured riverbank as a fish breeding area with wood decking overlooks.

Collier County Grade Separation Study and Master Plan, Collier County, Florida; Project Landscape Architect

Master plans for three proposed grade-separated roadways in Collier County, Florida. Each overpass structure was designed for a minimum of six traffic lanes and very high volumes of traffic. The plans and sketches included innovative solutions for enhancing the visual impact and pedestrian utilization of the proposed structures. The design included; unique balustrade design, “tiered” landscape treatments to retaining wall structures, public art and, comprehensive pedestrian improvements with boardwalks, lighting, bicycle trails and street furniture. All three interchanges were developed with unique aesthetic treatments and will connect to the existing Collier County parks system.

David Reynolds, PE

Drainage Engineer

Registrations:

*Professional Engineer,
Florida, #61052*

Academic

Achievements:

*BS/1990/Civil
Engineering /Virginia
Military Institute,
Lexington, Virginia*

*United States Military
Academy, West Point,
New York*

Mr. Reynolds has over 25 years of experience in design, project management, and construction inspection for various forms of state and private transportation improvements and site development. His work includes highway/roadway, horizontal/vertical layout, stormwater management, drainage, grading, earthwork, lighting, utility design, erosion-sediment control, maintenance of traffic, right-of-way public involvement, construction estimates, hydrologic and hydraulic analysis, and scour countermeasure design experience. His construction experience includes Inspector and Resident Engineer assignments on highway improvement projects.

Low Pressure Sanitary Sewer and Water Main Improvements, Miami Shores Village, FL: Project Engineer. The Project involved the development of a new low-pressure sanitary force main collection system, regional pump station, sanitary discharge force main, and water main improvements to serve the Village Downtown Central Business District. Mr. Reynolds was responsible for utility coordination, the hydraulic analysis of sewage loads and design and layout of grinder pump and low pressure force main collection systems, design of a new regional sanitary pump station, design of 12" water main improvements, development of preliminary plans, design criteria, and production of RFP documents for advertisement of a Design-Build Contract.

Caribou Connector Design-Build, Caribou, ME; Project Engineer. Provided Engineering services the Maine Department of Transportation (MDOT) design-build contract for a 2.8-mile segment of the new rural minor arterial. The project included roadway design, bridge design, drainage design, traffic analysis, utility coordination, and design of a new connection to the Interconnected Trail System. Mr. Reynolds was responsible for all utility coordination including mitigation of all utility conflicts with water and sanitary sewer facilities. Mr. Reynolds was responsible for the design and planning of relocations for 460 LF of 8" DIP sanitary sewer, 360 LF of 12" sanitary sewer, and 170 LF of 12" water main to resolve utility conflicts and maintain minimum depths. He also negotiated the inter-agency Utility Agreement between MaineDOT, the Contractor, and the local Utility District.

Flood Mitigation Projects, Cities of Miami and West Miami, FL: Project Engineer. Project Engineer for the design of integrated closed storm sewer systems, multiple pumping stations, 36" force main systems, and drainage canal improvements as part of municipal flood mitigation efforts. The design also included mitigation and relocation of numerous water mains, sanitary sewers, and service lines.

Open-Ended Utility Design Contract for the VDOT Northern Virginia and Culpeper Districts, Virginia; Design Engineer. Design Engineer for six watermain and sanitary relocation design projects in conjunction with roadway widening and improvements. Responsible for the design of 8 to 18-inch watermains, 12 to 24 inch gravity sanitary sewer, and all associated appurtenances as well as the plan production for incorporation into construction bid drawings. The following are examples of design performed:

- Braddock Road, Alexandria, VA – Project included the realignment of urban roadway under a widened railroad crossing. The utility design involved approximately 420 LF of 12" sanitary and approximately 180 LF of 8" water relocation in close proximity to various other public utilities

David Reynolds, PE

Drainage Engineer

and railroad facilities.

- Route 123, Fairfax County, VA – Project included sanitary sewer relocations resulting from the widening and re-profiling of 0.8 miles of urban arterial roadway. Roadway widening required the relocation of 4 sanitary manholes and approximately 650 LF of 12” and 24” sanitary sewer.
- Fairfax County Parkway, Fairfax, VA – Project involved the relocation of water and sanitary facilities impacted by the construction of new urban arterial roadway alignment. Approximately 260 LF of sanitary sewer and associated manholes were relocated while 350 LF of new 12” water main were installed as requested by the Fairfax County Water Authority to improve system connectivity.
- Route 657, Centerville, Road, Fairfax County, VA. Crossings of existing sanitary sewers were evaluated and proposed storm sewer profiles were modified to avoid conflicts based on utility test pit investigations.
- Park Street, Vienna, VA. Approximately 200 LF of 6” water main and two fire hydrants were relocated due to storm sewer improvements and pending development of adjacent property outside the Right of Way.
- Route 29, Fairfax County, VA. Roadway re-alignment required the relocation of two sanitary manholes and approximately 380 LF of 12” sanitary sewer.

SR 5/Brickell Avenue, Miami, FL, Project Engineer. Managed the project design engineering and plan production for the Florida Department of Transportation (FDOT D-6). Provided design and construction phase services for pavement reconstruction proposed for 1.7 miles of an existing four-lane divided highway on SR-5 (Brickell Avenue). The work included concrete pavement restoration, maintenance of traffic, pedestrian access management, street lighting, signalization, and public involvement. Mr. Reynolds was responsible for the overall plan production, development of drainage system improvements, and utility coordination.

J. DENNIS MARTINEZ, PE
Structural Engineer

Registrations:

*Professional Engineer,
Florida, No. 69303,
2009*

Academic

Achievements:

*MS, Civil Engineering,
Georgia Institute of
Technology, 2001*

*BS, Civil Engineering,
Georgia Institute of
Technology, 2000*

Mr. Martinez has 12 years of experience and has been active in a variety of site engineering projects including the design of major bridges, rail bridges, bridge ramps, bridge restoration, bridge extension and widening projects, and bridge load ratings. His recent experience has included a vast amount of bridgework, with a progressing amount of successfully completed project tasks.

Some of the projects for which Mr. Martinez has conducted professional engineering services include:

Eller Drive Overpass Intermodal Cargo Transfer Facility (ICTF) from East of US-1 / State Road 5 to East of McIntosh Road

Structural engineer for the design elements of five bridges, elevated mainline roadways, frontage roads, parallel railroad spur lines, and three railroad crossings within a ½ mile segment of roadway. Also involved in major modifications to the connector ramps from Fort Lauderdale-Hollywood International Airport, as well as connections to local City streets and Port roadways.

Bicentennial Park Seawall - Miami, Florida

Assistant Project Manager involved in the replacement of the northern and eastern seawall along Bicentennial Park and also along the west and south edges of the slip adjacent to the park. The new construction seawall is steel sheet pile with docking facilities. Services included production of design plans.

NW 25th Street Viaduct Structure (from NW 82nd Avenue to Miami International Airport Cargo Facilities), Miami, Florida

Structural engineer for the design and plans preparation for the new 1.4-mile elevated viaduct sky bridge along NW 25th Street (over the Palmetto Expressway – SR-826) serving as a limited access connection to MIA's Cargo facilities.

Overhead Sign Structure - New York, New York

Assistant Project Manager involved in the structural design of a 75-ft. steel butterfly sign structure with variable message signs attached to the arms. The steel rectangular column was built-up with 5/8" and 1-1/4' member plates. Services included production of design plans, structural computations and quantity computations.

FDOT District 6: Midtown Emergency Bridge Repairs - Miami, Florida

Structural engineer responsible for repairing the bridge ramps from southbound and northbound I-95 to westbound SR 836. The end spans of both ramps were subjected to fire damage after a gas fuel tanker went over the barrier railing on the southbound I-95 to westbound SR 836 ramp. The project involved repairing structural concrete members to their original cross-sectional profiles and appearance. Fire affected bearing pads were replaced by constructing steel jacking frames. Services included production of reparation design plans, structural computations, quantity computations and C.E.I. administration.

Emergency Bridge Restoration - Miami, Florida

Structural engineer for the design of the replacement of exterior structural members on Span 3 of SR 91, I-95 ramp to Northbound Turnpike. Failure of an exterior prestressed beam on the eastside of the bridge due to a truck impact resulted in a necessary and immediate bridge restoration. A prestressed concrete beam, reinforced deck slab and concrete barrier were members to be replaced.

SR 836 Westbound Auxiliary Lane - Miami, Florida

Project engineer involved in the structural design of a 740-ft. bridge over CSX and FEC railroads for SR 836 westbound traffic. The new construction bridge is a two lane, 7-span skewed bridge. The bridge superstructure consists of a reinforced concrete deck supported on prestressed concrete beams. And the

J. DENNIS MARTINEZ, PE
Structural Engineer

substructure consists of pile bents utilizing 30-in. prestressed piles. The bridge was designed in accordance with AASHTO LRFD Bridge Design Specifications. Job tasks included managing the production of design plans, structural computations, load-rating computations, and quantity computations.

FDOT District 6: NW 74th Street Interchange at the Homestead Extension of Florida Turnpike (HEFT), Miami, Florida

Project engineer involved the design of four new bridges, widening one bridge, approach retaining walls and sound barrier walls. Bridge lengths ranged from 300 feet to 425 feet.

Blair Stone Parkway Northern Extension - Tallahassee, Florida

Assistant Project Manager involved in an alternate concrete bridge design for the Blair Stone Road corridor, consisting of a 1,100-ft. twin span bridge across wetlands and a CSX railroad mainline. The bridge superstructure consists of a reinforced concrete deck supported on prestressed concrete beams. The substructure consists of hammerhead piers sitting on top of a concrete pile footing. Services included production of design plans, structural computations and load rating computations.

Escambia River Bridge (SR-10) - Pace, Florida

Structural engineer responsible for an alternate concrete bridge design for a new high-level parallel span bridge over the Escambia River. The bridge superstructure consists of a reinforced concrete deck supported on prestressed concrete beams. The substructure consists of pile bents utilizing 30-in. prestressed piles. Services included production of design plans, structural computations, and load rating computations.

I-75 Intelligent Transportation System (ITS) – Miami, Florida (2006)

Structural engineer on the design team for the design of 26 overhead cantilevered sign structures supporting Dynamic Message Signs (DMS) along I-75. Responsible for the design of the sign structure steel HSS members excluding substructure components. Tasks also included checking components designed by others, production of design plans, structural calculations and quantity computations. All design was in accordance with AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 1994.

FDOT District 6: Miami River Submarine Cable Replacement - Miami, Florida

Assistant Project Manager involved in the replacement of submarine cables on 6 moveable bridges over the Miami River. The moveable bridges involved in the project were, Brickell Avenue, SW 1st Street, Flagler Street, NW 5th Street, NW 12th Avenue, and NW 27th Avenue Bridge.

FDOT District Six, I-395 Corridor Reconstruction, Miami Florida; Structural Engineer

A \$500 million design improvements program for the I-395 Corridor. I-395 is a large, complex limited access roadway in downtown Miami which serves as a vital link in South Florida's transportation network. The new corridor will connect downtown Miami to I-95 and also provide direct access to the Port of Miami Tunnel. Work includes structural design for a proposed signature bridge and modification of the existing roadway and interchange. Other elements of this project include drainage, utilities, geotechnical engineering, public involvement, environmental permitting, and a complex maintenance of traffic scheme in order to minimize local impact.

ENRIQUE SOSA, JR., PE
Electrical Engineer

Registrations:

*PE, Electrical
Engineering, Florida,
No. 53885*

*Certified Automation
Professional (CAP),
Instrumentation Society
of America (ISA),
#40194, 11/2010*

**Academic
Achievements:**

*Master Level Courses,
Biomedical
Engineering, University
of Miami, 1994*

*MS, Nuclear
Engineering, North
Carolina State
University, 1993*

*BS, Electrical
Engineering, Florida
International University,
1986*

*BS, Nuclear
Engineering, University
of Florida, 1983*

Mr. Sosa has over 27 years of experience in the planning, design and construction administration of complex electrical systems for major transportation improvement projects including extensive lighting, fire protection, and highly specialized electrical systems design for unique facilities and associated security systems.

Some of the projects for which Mr. Sosa has performed professional engineering services include:

Design-Build Automated Peplemover (APM): North Terminal Development - Miami International Airport, Florida

Electrical engineer responsible for the coordination with the fixed facilities and the Automated Peplemover (APM) (vehicle designed by Mitsubishi). Also, developed the design criteria of the APM Maintenance Facility. Responsibilities included the construction phase engineering services.

Consolidated Rental Car Facility: Miami Intermodal Center, Florida

Mr. Sosa is responsible for the electrical engineering designs for the facility, including the power distribution, grounding, lighting, lightning protection, fire alarm, HVAC (electrical components), and fire protection systems, and a one-of-a-kind fueling system requiring specialized fuel management and control systems, leak detection systems, and emergency fuel shut-off systems. The extensive power distribution requirements of the facility required Mr. Sosa to perform detailed load/demand flow studies, short circuit analysis, and time current coordination studies utilizing SKM Power tools electrical system simulation program. Also included coordination of electrical elements required for the proposed MIC-MIA Automated Peplemover project. The 4,000,000sf parking facility is intended to consolidate the location of various rental car providers serving Miami International Airport.

North Corridor Metrorail Extension, Miami, Florida

Mr. Sosa served as electrical engineer involved in this multi-million dollar Metrorail Extension project that includes 10-miles of new elevated heavy rail line, including 7 new stations requiring mechanical / electrical engineering elements, along the NW 27th Avenue corridor from approximately the existing Martin Luther King Metrorail Station to the Miami-Dade/Broward County line. Mr. Sosa's work included all electrical systems for the stations including the power distribution, grounding, lighting, lightning protection. He also provided extensive coordination relating to proposed communication and controls systems.

Pedestrian Bridges Accommodating Automated Peplemover (APM), Fort Lauderdale-Hollywood International Airport, Florida

Project electrical engineer responsible for the electrical designs for the Pedestrian Bridges, that connect the airport's parking structures to the terminal buildings and accommodate a future platform for an APM. The work included electrical systems for power, lighting, lightning protection, fire alarm, communication, and extensive coordination with the Airport staff.

MIA Pump Controls – Hydrant Fuel Tank Farm, Miami International Airport, Florida

Project electrical engineer responsible for the complete system replacement of Programmable Logic Controls (PLC) in coordination with Airport staff.

Boarding Pass Reader (BPR): United Airlines (UAL) - Miami International Airport, Florida (1998)

Developed electrical construction drawings and provided construction support services for installation of BPRs at UAL gates. Project included interfacing with airport data/communication systems.

ENRIQUE SOSA, JR., PE
Electrical Engineer

One University Drive Building Rehabilitation and Retrofit, Plantation, Florida; Project Engineer

The project encompassed two, triangular shaped buildings, both four stories high. The project entailed the complete building renovation conversion for government use, including the design of an atrium between the buildings allowing them to function as one. Enrique was responsible for the electrical engineering designs associated with the smoke evacuation for the atrium, new fire alarm system, and complete renovation of exit and emergency lighting per life safety requirements.

Throat Expansion: Concourses F and H – For Lauderdale/Hollywood International Airport, Florida (2003)

Mr. Sosa is responsible for the electrical design for the widening and modifications to the concourse throat, to expand security screening operations. New electrical service included step down transformers and electrical panels to provide the 208Y/120-volt service for the expansion to accommodate security screening equipment. The lighting design will match existing throat areas.

AOA Access Card Reader Gate Entry: American Airlines (AA) – Miami International Airport, Florida (2001)

Mr. Sosa is a project engineer for the electrical engineering contract documents and construction phase services for the removal of a manned guard booth (including electrical connections), the installation of a new airport security ID card reading system at gate entry, new security lighting, and telephone/communications connections for the American Airlines Maintenance Facility Building #2121.

Aerofloral X-Ray Cargo Facility: Miami International Airport, Florida (1999)

Project engineer responsible for the design of a 16,000sf airport cargo facility, including the installation of x-ray equipment. Project included contract documents and construction administration for the complete engineering design including architecture, structural, environmental, mechanical, electrical, plumbing and fire protection, including specialized systems such as CO2 Fire Suppression and 380Y/220 volt electric service.

Switchboard and Motor Control Center (MCC): Jet Fuel Storage (North) Facility - Miami International Airport, Florida (1998-1999)

Project engineer responsible for developing all electrical construction drawings for the replacement of an outdated switchboard and MCC. The new system is an outdoor type with an automatic transfer switch for back up from an emergency generator and a tray mounted distribution system to the loads. Special requirements associated with a hazardous environment were fulfilled.

Baggage Shed: American Airlines (AA) - Miami International Airport, Florida (1998)

Responsible for developing electrical construction drawings for a new prefabricated booth at the AA baggage shed.

Fire Protection System: Jet Fuel Storage Facility - Miami International Airport, Florida (1999-2004)

Project engineer responsible for electrical design of fire protection system for complete facility. Main components of the design were a fire pumping station and the fire alarm system. The pumping station included electrical power, lighting, lightning protection, and control systems for all fire pumps, as well as level control and indication for all associated water, foam, and diesel tanks. The alarm system consisted of a sophisticated microprocessor based; class A, system with addressable devices.

JAMES R. ROSALES, PE
Structural Engineer

Registrations:

*PE, Civil Engineering,
Florida, No. 54635,
1998*

*FICE/FDOT LRFD
Certification*

**Academic
Achievements:**

*MS, Structural
Engineering, Florida
International University,
1995*

*BS, Civil Engineering,
Universidad Nacional
de Ingenieria - Lima,
Peru, 1990*

Mr. Rosales has continually provided structural design and construction phase services for over 16 years on projects ranging from minor to complex bridge design for highways and roadways; utility infrastructure, pavement design and miscellaneous structures for major international airport improvement projects; and specialty structures such as noise abatement walls, sign structures, retaining walls, tunnels, and seawalls. His experience also extends beyond design to encompass services such as bridge inspection, due diligence assessment, and repair/rehabilitation investigations.

Some of the projects for which Mr. Rosales has conducted professional engineering services include:

Design-Build Seawalls: Keystone Point - City of North Miami, Florida

Structural engineer responsible for the design and calculations of this design/build contract, for which the firm was responsible for the design engineering, preparation of construction drawings, and permitting of new seawalls at 22 locations within the Keystone Point Community.

Storm Drainage System: SW 137th Avenue (between SW 184th Street and SW 152nd Street) - Miami, Florida

Structural engineer responsible for the preparation of construction plans for the widening to 6 lanes with raised median of approximately 2 miles of an existing 2 lane roadway in Miami-Dade County. The project included milling and resurfacing, curb and gutters, storm drainage system, pavement marking, signing, signalization, roadway lighting, traffic counts and plans for a bridge widening over the Black Creek Canal (C-1W).

New Drainage Structures - Miami International Airport, Florida

Responsible for the design of the new drainage structures for Midfield Expansion Phase IIIC/Package II.

Pump Station Building: Northside Retention Detention Pond - Miami International Airport, Florida

Responsible for the design of the pump station building and generator building.

FDOT District 6: Long Key Bridge Inspection – Monroe County, Florida

Responsible for the interior inspection of the superstructure box girders. Inspection focused primarily upon cracking at the deviation blocks inside this 12,152', post-tensioned, segmental concrete bridge.

Sanitary Lift Station: Northwest Cargo Area Detention/Retention Pond - Miami International Airport, Florida

Responsible for the design and preparation of the construction drawings of a pipe crossing structure over a canal and a generator-building house as well as a pump house station as part of the system to direct stormwater to a detention/retention pond.

Sanitary Lift Station: Apron for Concourse C-D Extension - Miami International Airport, Florida

Responsible for the design of the storm drain manholes, sanitary lift station and valve pit, and communication and electrical manholes. The design includes structures located under concrete pavement in the apron area, as well as under asphalt pavement.

JAMES R. ROSALES, PE
Structural Engineer

Design/Build Noise Abatement Barrier Wall (along NW 36th Street) - Miami International Airport, Florida

Collaborated on the structural design and preparation of construction plans and CEI phases of a 1-mile long barrier wall by 20' to 34' high consisting of auger cast piles, pre-cast posts, panels, and 16" diameter water main for the design/build joint venture between the firm and Delant Construction.

Eller Drive Overpass ICTF from East of US-1 / SR-5 to East of McIntosh Road, Fort Lauderdale, Florida

The project is for the final design on a complex interchange for express lanes from I-595 into Port Everglades. The project involves the design of five new bridges, elevated mainline roadways, frontage roads, parallel railroad spur lines, and three railroad crossings all within a ½ mile segment of roadway. There will be modifications to the connector ramps from Fort Lauderdale-Hollywood International Airport, as well as connections to local City streets and Port roadways. Mr. Rosales was responsible for the preliminary design of the substructure for all the bridges on the project. The preliminary design was performed using AASHTO LRFD Bridge Specifications, and required extensive use of RC-Pier program.

I-75 Intelligent Transportation System (ITS) – Florida Department of Transportation, District 1

The project consists of 26 overhead cantilever sign structures to support Dynamic Message Sign (DMS) along the I-75. The project also includes the installation of 117 poles for Closed Circuit Television (CCTV) and Microwave Vehicle Detection System (MVDS). The structure was modeled in STAAD and the members were designed using the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 1994 Edition.

Cantilever Sign Structure at NW 42nd Ave (LeJeune Road) North of SR 836 – Florida Department of Transportation, District 6

This structure is an overhead cantilever sign located over the southbound lanes of NW 42nd Avenue. The design was performed using the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 1994 Edition. Mr. Rosales served as project engineer and designed the foundation of the structure and reviewed the design of the structural components

FDOT District Six, NW 25 Street Viaduct Structure from NW 82 Avenue to MIA Cargo Facilities, Miami, Florida; Project Engineer

The project consists of the design of a new 1.4-mile elevated viaduct along NW 25 Street (over the Palmetto Expressway SR 826) serving as a limited access connection to MIA's cargo facilities. James was responsible for the design of the steel box straddle bents, end bents, pier columns, and foundations. He was also involved in the design of the superstructure elements, including the design of the concrete deck for the curved portion of the bridge and the ramps.

JAMES MOLNAR, P.E.
Senior Civil Engineer

Registrations:

Licensed Professional Engineer in the States of Florida and Michigan

Academic Achievements:

*M.B.A., Oakland University
1991*

*B.S., Civil Engineering, Wayne State University
1985*

*A.S., Building Construction Technology, Ferris State University
1981*

Professional Activities:

Member, Institute of Transportation Engineers

Member, Florida Engineering Society

Member, American Society of Civil Engineers

Mr. Molnar has more than 22 years experience in the design, permitting and construction administration of a wide variety of civil engineering projects. His combination of technical and business education coupled with years of practical construction experience has proven invaluable in meeting the needs of clients in today's environment of ever tightening fiscal, environmental and social constraints on major projects:

Some of the projects Mr. Molnar has been involved with include:

Watershed Master Plan, Lehigh Acres, Florida

Drainage Engineer responsible for computer modeling and calibrating a 100 square mile regional stormwater management system to predict flood staging, quantify and prioritize capital improvements, and prepare permit modifications. The model was also used for the designing and permitting of the SFWMD's East Lee County Aquifer Recharge Program improvements.

Legends Golf & Country Club, Lee County, Florida

Project Manager responsible for design, permitting and construction oversight for horizontal infrastructure for this 657-acre master planned residential development. Represented developer in evaluating major stormwater discharges from the Southwest Florida International Airport expansion, which passed through Legends and neighboring Eagle Ridge. As Project Manager, Jim was involved in reviewing multi-party agreements with developers, Lee County DNR, SFWMD and Lee County Port Authority, as well as the design and permitting of regional control structures.

Carlos Waterway, Lee and Hendry Counties, Florida

Project Manager for this one and one-half mile long flood control flow-way. Waterway consisted of a 300-foot wide flow-way with weirs stepping down to the river and an operable control structure to replicate historic flows to the natural creek outfall. This project included Permits from the USACOE, FDEP, SFWMD, FDOT, Lee and Hendry Counties, and archaeological and environmental surveys. Duties included hydrologic and hydraulic design, design of a 200 foot long, four barrel 8'x10' concrete box culvert under SR80, the MOT plan to construct, and bid document preparation.

Inflow/Infiltration Study

Project Engineer responsible for analyzing rainfall events and sewer flows to isolate and identify possible system breaks for a multi-county sewer collection system. Duties included collection, analysis, correlation and calibration of both rainfall data and corresponding sewer flows and subsequent identification of possible corrective measures to minimize treatment plant operating expenses by the reduction of both rain and ground water.

Roy Brown Canal Crossing of County Road 78, Hendry County, Florida

Project Manager for the emergency replacement of failing drainage structure under a major county roadway. Project required drainage basin analysis, hydraulic design, concrete box culvert and integral weir design, permitting, maintenance of traffic planning, construction inspection and completion certification. The project was fast tracked for safety concerns.

JAMES MOLNAR, P.E.
Senior Civil Engineer

Summerlin Road Six-Laning, Lee County, Florida

Project Manager for this project, which involved widening a four-lane road to six lanes for a distance of approximately 4.5 miles from San Carlos Boulevard to Gladiolus Drive and constructing two grade-separated intersections. The TYLI design team developed a typical section for the roadway and water management design that fit within the existing right-of-way. This resulted in avoiding impacts to jurisdictional wetland canals on both sides of the road and the ability to proceed under a Nationwide USACOE Permit, which was secured at the 60 percent plan stage.

Winkler Ave. Canal Enclosure/Rd. Widening, City of Fort Myers, Florida

Project Manager and Lead Drainage Engineer for this roadway project in the City of Fort Myers. The road was a mile and a half long through a highly developed urban area fronting a regional shopping mall, post office, car dealership and hospital, and required over 1000 feet of cast in place box culvert placed under the new pavement, a new four-lane bridge, a railroad crossing, utility relocations, and high voltage transmission line relocation, all on an extremely accelerated schedule while maintaining traffic flow across the project at four major and two minor intersections. The design team was comprised of six local engineering firms.

Lovers Key/Carl Johnson State Recreation Area, Lee County, Florida

Project Manager and Project Engineer for this joint venture between FDEP and Lee County Parks and Recreation to restore/enhance the County's Carl Johnson Park site by removing facilities (including three creosote-treated tram bridges) and exotic vegetation to return the area to natural conditions. The adjacent Lovers Key facility replaced the park, and included two concrete bridges, public facilities, access roads, parking, ranger housing, and a kiosk on the beach for weddings and other ceremonies.

Plantation Road Extension, Fort Myers, Lee County, Florida

Project Manager for this one mile new alignment in-fill county roadway. The project utilized a four lane, divided cross section with signalized intersections at both ends, a combination open/closed drainage system, pond sharing agreements and innovative right-of-way reduction techniques.

McGregor Baptist Church, City of Fort Myers, Florida

Project Manager and Design Engineer for sitework design for 120,000 square foot building addition on a 105-acre site. Project included; site planning, drainage design, utility improvements and relocations, roadway improvements to Colonial Boulevard and Deer Run Farms Road (additional turn lanes and signalization) and permitting through the SFWMD, the City of Fort Myers, Lee County, the FDOT and the USACOE.

SR 29/CR 78 Realignment, LaBelle, Hendry County, Florida

Project Manager for this intersection relocation project, which resulted in ¼ mile of new alignment of a County Road, terminating in a signalized intersection with a State Highway. Project included drainage permitting, wetland impacts, off-site mitigation, traffic analysis and signalization design.

JOEL IGLESIAS, PE, LEED AP, CFPS
Mechanical Engineer

Academic Achievements:

BS, Mechanical Engineering, University City "Jose Antonio Echeverria": (ISPJAE), Havana, Cuba, 1998

Registrations:

Professional Engineer, FL, No. 71451

LEED Accredited Professional

Certified Fire Protection Specialist (CFPS)

Courses and Seminars:

NFPA Automatic Sprinkler Systems Seminar, FT.

Lauderdale, Florida.

TRANE Air Conditioning Clinic,

Ramada Hotel Conference Room, Doral, Florida

Revit Architecture

Essentials, CADD Centers of Florida, Fort Lauderdale, Florida

Revit MEP, Arts Digital Institute, Doral, Florida

FLO-Master Training-PIPE-FLO Professional v12

Engineered Software, Inc., Tampa, Florida

Mr. Iglesias has over 18 years of experience in mechanical systems MEP design, planning, and inspection services, for a variety of improvement projects. He is well versed in regulatory code requirements and has provided mechanical engineering services for improvements and new construction of many building applications.

Some of the projects for which Mr. Iglesias has performed professional services include:

Stock Island Detention Center & Sheriff's Administration Building HVAC Systems Improvements

The project currently, in the bid phase, consists of a chiller plant retrofit for a Detention facility and a chiller plant retrofit for the Sheriff's Administration Building in Florida's Monroe County. These two buildings are located in the same site on College Road, Key West. The proposed changes and improvements involved the conversion of the existing chilled water primary-secondary flow loop systems to integrated chilled water primary variable flow systems, including Chillers replacement and cooling tower of the Sheriff's administration building replacement, together with the specification of new chilled water and condenser water pumps for both complexes. Furthermore, 3 Air handler units were replaced in the Detention facility and the roof top Air handler Unit of the Sheriff's Administration building. All equipment controls, valves accessories and pipes were adjusted and/or replaced to accommodate for the new equipment layout, connections and dimensions. Commissioning in all of the required phases of this project has been also a requirement for these facilities and it has been a responsibility of Mr. Iglesias, as a commissioning agent.

Metro Green Line Doha, Qatar Doha

Mr. Iglesias served as a fire and life safety consultant in the preparation of a Fire and Life Safety report. The project consisted of an elevated Metro station that connects via a pedestrian bridge to a soccer stadium that will host the next Soccer World Cup. Also, the elevated sections of the trainways and two tunnel sections that comprise the Green Line section to be expanded. The professional services provided included the development of Life and Fire safety measures that meet the requirements of the NFPA 130 standard and the requirements of the "Qatar Railways Company Employer's Requirements" standard and local applicable codes. The report included, among other topics, several egress calculations for the multiple fire scenarios and their comparison with a CFD modeling that reflected available evacuation time within the station and tunnels tenability limits.

Tilted along Khalifa Avenue Underpass, Doha Qatar

Mr. Iglesias served as a fire and life safety consultant in the preparation of a Fire Risk Assessment report. The project consisted of a road tunnel or underpass created below Khalifa Avenue in Doha, Qatar. Professional services included a risk analysis and identification of mitigation measures to minimize the impact of these risks to life and property, based on NFPA 502 and applicable code

JOEL IGLESIAS, PE, LEED AP, CFPS
Mechanical Engineer

**FP 554 – Advanced
Fire Suppression –
Spring 2015**

WPI Fire Protection
Online Graduate
Program

Worcester,
Massachusetts

REVIT MEP 2016

Global Technology
Solutions, Rochester,
New York

requirements. Solutions were provided to the design teams, such as the incorporation of a tunnel emergency ventilation system, oil spill contain and drainage, special fire protection cladding materials to protect the structural integrity of the tunnel under a fire occurrence, among other fire mitigation measures.

Orbital Highway Doha, Doha Qatar

Mr. Iglesias served as a systems engineer for fire and life safety. The project consisted of five road tunnels / underpasses that vary in length and geometries. Professional services included for each underpass, a risk analysis and identification of mitigation measures to minimize the impact of these risks to life and property, based on NFPA 502 and applicable code requirements. Solutions were provided to the design teams, such as the incorporation in some of the tunnels of an emergency ventilation system, oil spill contain and drainage, special fire protection cladding materials to protect the structural integrity of the tunnels under a fire occurrence, among other fire mitigation measures.

Caracas Metro Urbano, Caracas, Venezuela

Mr. Iglesias provided mechanical engineering services in association with the design of the metro system expansion which is comprised of 7 km of underground metro systems with three (3) underground stations. Mr. Iglesias participated in the fire protection design in compliance with NFPA requirements. Design included a class III wet stand pipe system, along with the corresponding hose cabinets and fire department valves, a net of water distribution pipes, water tanks and pumps. Furthermore, specifications were provided for Clean Agent pre-engineered Fire Suppression Systems such as Inergen, to protect electric and electronic equipment of high importance for the Metro system. Manual Fire extinguishers were also specified as per NFPA 10 requirements.

Caracas Metro Sub-urbano, Caracas, Venezuela

Mr. Iglesias provided mechanical engineering services in association with the design of a commuter rail line known as Transporte Masivo Caracas – Guarenas, Guatire, which consists of 14.5Km of mountain tunnels with the station of Caucaguita located in the mountain section, and 20.5 km of elevated guideway with six (6) elevated state of the art stations. Mr. Iglesias was responsible for the stations fire protection design in compliance with NFPA requirements and local ordinances. Design included a class III wet stand pipe system, along with the corresponding hose cabinets and fire department valves, a net of water distribution pipes, water tanks and pumps. Furthermore, specifications were provided for Clean Agent pre-engineered Fire Suppression Systems such as Inergen, to protect electric and electronic equipment of high importance for the Metro system. Manual Fire extinguishers were also specified as per NFPA 10 requirements.

JOSE M. NESSI
Construction Management

**Academic
Achievements:**

*BS, Economics
Sciences, Business
Administration,
Accounting
Construction
Management,
University of Buenos
Aires, 1969*

Mr. Nessi has over 40 years experience in every aspect of construction management. His experience encompasses water works, roadway, landscaping and building projects. His expertise includes negotiating contracts with government agencies and private developments in the construction and communications areas, as well as implementing FEMA funded programs.

Some of the projects for which Mr. Nessi has conducted professional engineering services include:

Mr. Nessi was the Project Manager for the Construction Administration of the following LAP/ARRA funded projects:

ARRA Citywide Traffic Calming Devices, City of West Miami, FL,

ARRA Citywide Sunset Drive Improvements Phase IV, City of South Miami, FL,

ARRA Roadway Improvement Projects, City of Sweetwater, FL,

ARRA Roadway Enhancement Projects, City of Sweetwater, FL.

City of West Miami Citywide Drainage Improvements Phase IB, West Miami, Florida

Construction manager for the construction of the Citywide Drainage Improvements projects in response to the extreme flooding experienced after the “no name storm” of October 2000 and Hurricane Irene. Services included design phase services, the bidding and negotiations assistance, and the construction administration and inspection for this phase of the Citywide Drainage Improvement project. This phase of the citywide project included the construction of a collection system to convey stormwater runoff to the pump stations constructed under Phase IA.

Project Management: FEMA Drainage Program - Miami-Dade County, Florida

Management services during the design and construction phases for a drainage program for Miami-Dade County and FEMA. Tasks include coordinating and managing the designer, contractor, and inspectors for 300 work sites in pavement reconstruction, resurfacing and drainage improvement.

Citywide Water Main Extension Area 1 – City of South Miami, Florida

Mr. Nessi was responsible for the management services during the construction of water main extensions, which included fire protection and service lines to individual properties with meter boxes. Firm responsibilities included final construction plans, technical specifications, permitting and bidding assistance, and construction administration. The project consisted of 3,860 feet of 36" water main extension along numerous streets.

Church Street Phases 2, 3 and 4, City of South Miami, FL

Construction supervisor for the roadway reconstruction and drainage improvements on SW 59th place from 64th to 69th streets.

SW 67th Avenue & SW 64th Street

City of South Miami, FL

Construction supervisor for the roadway reconstruction and drainage improvements from SW 67th Avenue and SW 64th Street.

JOSE M. NESSI
Construction Management

Sewer Systems: Palmetto-Phoenix Farms and Town of Golden Beach, Florida

Projects involved the installation of complete sewer system, pump stations, and force mains for a total of over 100,000lf of pipe.

Inspection and Coordination Services: FEMA Program - Miami-Dade County, Florida

Collaborated with B.A. Carmona and Associates, B.C.C. Engineering and Consul Tech Engineering for the inspection and coordination for approximately 200 work sites in a resurfacing, reconstruction and drainage program funded by FEMA.

Construction Services: Broward and Miami-Dade Counties, Florida

Project manager responsible for the complete and satisfactory bidding, execution and administration of entire projects concerning sitework, concrete, lawn irrigation systems, and landscaping. Duties included establishing a relationship among various clients such as the Cities of Coral Springs, Riviera Beach, Hialeah. His duties also included the coordination of subcontractors, suppliers and concurrent projects.

FDOT Districts 4 and 6: Construction Services - Broward and Miami-Dade Counties, Florida

Provided Construction Services for Public Works.

Omni Stations: MetroMover Extension – Miami, Florida

This \$15M project consisted of the construction of 6 elevated MetroMover stations, bus transfer area, and a vehicle wash facility. The project was built following very high standards imposed by the Federal Transit Agency for Mass Transportation Projects.

Florida's Turnpike: Bridge Widening (between Bird Road and Kendall Drive) – Miami-Dade County

The widening of the segment of the Florida Turnpike included 6 bridges and the construction of 2 new ramps for the Kendall Drive interchange.

FDOT District 4: I-75 and SR-29 Interchange, Broward County, Florida

Construction of SR-29 overpass over I-75 including all access and egress ramps and drainage canals.

Fast Tract: Tri-County Commuter Rail Stations - Golden Glades and Palm Beach, Florida

These Tri-Rail stations were built maintaining railroad traffic and following a fast paced construction schedule.

Road Widening Projects: Broward and Miami-Dade Counties, Florida

Responsible for several road-widening projects including drainage systems up to 72" diameter.

Bridge Construction and Widening Projects: Broward and Miami-Dade Counties, Florida

Responsible for the widening or replacement of several bridges.

Larry T. Seel
Public Involvement

Years of Experience
28

Academic Achievements

*BS, Journalism,
Northwestern University,
1985*

Certifications

*Certified Professional
Services Marketer,
2001-2013*

Professional Affiliations

*Society for Marketing
Professional Services*

Software Proficiencies

*Adobe Creative Suite,
Microsoft Office*

Mr. Seel has more than 28 years of professional experience as a writer, editor, and graphic design specialist. He has more than 16 years of experience in the transportation engineering industry and has contributed to public involvement campaigns for numerous highway and rail transit projects. He assisted a previous employer in preparing a \$1.2 billion grant application for Florida's High Speed Rail initiative and prepared maps and display boards for use at a high speed rail industry forum. He brings experience working with media outlets to disseminate project news and to prepare announcements for upcoming meetings.

Florida Rail Enterprise, Florida High Speed Rail Initiative; Communications Specialist. Mr. Seel supported his previous employer in its role as program manager for Florida's High Speed Rail initiative. He assisted in editing the federal grant application that resulted in the state receiving \$1.2 billion in funding for development of Phase I of the HSR program.. He prepared corridor maps showing the proposed Phase I route from Orlando to Tampa and Phase II from Miami to Orlando and other display boards used at an industry forum event attended by over 600 consultants and rail industry professionals.

Volusia County, Dunn Avenue Extension and Bridge Over I-4; Communications Support. This roadway extension project, funded by the American Recovery and Reinvestment Act (ARRA) of 2009, was singled out for national recognition that included a site visit by Federal Highway Administrator Victor Mendez. Mr. Seel designed an informational flyer about the project to be distributed to attendees at the site visit and to media representatives.

FDOT District Five, SR 500/US 192 Widening, Osceola County; Public Involvement Support. Mr. Seel assisted in publicizing and organizing a public meeting for this 3-mile highway widening project in Osceola County. He prepared display boards and PowerPoint slides for use during the meeting and assisted in recording public comments and responding to inquiries about the project.

City of Orlando, Shingle Creek Multi-Use Trail; Public Involvement Support. Mr. Seel assisted the engineering staff and the City's project manager in preparing for and running a public meeting about this recreational trail extension project that involved construction of a new bridge across Lake Estelle adjacent to US 17-92 near downtown Orlando. He was responsible for providing project visuals and assisting as needed during the meeting.

FDOT District 5, Interstate 4 Trail Overpass Design-Build, Seminole County; Graphic Design Support. This project involved the design and construction of a signature cable-supported bridge over I-4 for Seminole County's recreational trails program. This distinctive structure serves as a visual gateway to the County and includes a 373-foot cable-supported span across I-4, over 1,000 feet of ADA-compliant ramp structure, and 0.5 miles of paved trail. Mr. Seel was involved in the project from the proposal stage through completion and was responsible for documenting construction progress through photos and videorecordings. He also prepared display boards and selected a graphic artist who created a large-format rendering of the proposed bridge that was instrumental in the team's selection for the project.

MIGUEL J. CRUZ, PE
Construction Management

Registrations:

*PE, Civil Engineering,
Florida, No. 38594*

*Register Ingeniero
Técnico de Obras
Publicas, Spain*

Academic

Achievements:

*BS, Construction
Management,
Florida International
University, 1982*

*BS, Civil Engineering,
Florida International
University, 1982*

CTQP Certifications:

*Earthwork Level 1
Earthwork Level 2
Asphalt Paving Level 1
Pile Driving Inspection
Concrete Field
Technician Level 1
Concrete Field
Technician Level 2
Final Estimates Level 1
Final Estimates Level 2
Quality Control
Manager*

**American Concrete
Institute Certifications:**

**ACI Concrete Field
Testing Technician –
Grade 1**

Exp: 1/20/12

**ACI Concrete
Transportation
Construction
Inspector**

Exp: 4/14/12

Mr. Cruz has 29 years of experience as a civil engineer and has overseen the construction inspections and management services of various projects including roadway and highway improvement projects, airports, shipping docks and piers, commercial facilities, and related infrastructure. His expertise includes both new and renovation construction. Additionally, Mr. Cruz also has extensive experience with pavement restoration projects.

Some of the projects for which Mr. Cruz has conducted professional engineering services include:

C South Florida Water Management District (SFWMD), Compartment C Buildout Pump Station G-508, Hendry County, Florida; Construction Manager. Provided construction oversight and management services for a 1,630-cfs pump station as part of a new 8,800-acre Storm Treatment Area (STA) on Compartment C. Mr. Cruz was one of the on-site representatives to observe and document the construction activities; attend and participate at construction meetings; review and assist SFWMD in responding to Requests for Information, Requests for Clarifications, Requests for Proposals, Change Orders, Field Orders and Value Engineering Submittals; review and reconciliation of construction schedules; contractor payment applications; and verification of project controls, milestone completions and contract closeout/commissioning.

IS Construction Manager/Resident Engineer

Construction Manager for South Florida Water Management District Acceler8 Program STA 5 Flow Way 3 a 12.9M project and STA 6 Section 2 a \$23.5M, both projects are part of the Everglades Restoration Project. Senior Resident Engineer for Pump Stations and Pipe line projects for the City of West Miami, total construction budget of \$15M. Responsible for the CIS and Quality Assurance of a \$19 utility corridor project. Project consists of water mains, force mains, electrical, ducts, communication ducts, fuel lines, drainage culverts and airfield pavement.

Storm Treatment Area 5 Section 3 - Construction Management Services – ACCELER8 Program, South Florida Water Management District, Florida

Mr. Cruz is responsible for the construction management (including schedule and cost control analysis) of Storm Treatment Area 5 Section 3 (\$12.9M) as part of SFWMD's ACCELER8 Program. To date, there have been no cost overruns, no claims and no delays to the schedule. The ACCELER8 program is an Everglades Restoration effort committed by a federal/state/local partnership to expedite the progress of eight restoration projects that will revitalize the ecosystem. The Area 5 Section 3 project consists of labor, equipment & materials to construct an additional storm water treatment flow way for Storm water Treatment Area 5. The work will include the construction of canals, levees, flow control structures, degrading of existing roads and berms, and filling of existing ditches and canals.

Storm Treatment Area 6 Section 2 - Construction Management Services – ACCELER8 Program, South Florida Water Management District, Florida

Mr. Cruz is responsible for the construction management (including schedule and cost control analysis) of Storm Treatment Area 5 Section 3 (\$23.4M) as part of SFWMD's ACCELER8 Program. To date, there have been no cost overruns, no claims and no delays to the schedule. The ACCELER8 program

MIGUEL J. CRUZ, PE
Construction Management

is an Everglades Restoration effort committed by a federal/state/local partnership to expedite the progress of eight restoration projects that will revitalize the ecosystem. The Area 6 Section 2 project consists of labor, equipment & materials to construct an additional storm water treatment flow way for Storm water Treatment Area 6 Section 2 and Section 1. The work will include the construction of canals, levees, flow control structures, degrading of existing roads and berms, and filling of existing ditches and canals.

Mary Brickell Village: Environmental and Engineering and Construction Due Diligence

Mr. Cruz was involved in the review and site engineering drawings as part of a Construction Due Diligence of this luxury development that was under construction. The services included engineering inspections of the works completed, including the assessment and evaluation of schedule and budget performance. Engineering disciplines included review of civil, structural, mechanical, electrical, plumbing and fire protection designs.

CIS and Quality Assurance

Responsible for the CIS and Quality Assurance of a \$19M utility corridor project. Project consists of water mains, force mains, electrical, ducts, communication ducts, fuel lines, drainage culverts and airfield pavement.

Director of Engineering

Responsible for all design projects including highway, drainage, ERPs, signing and stripping, pavement design, water and sewer, construction engineering and inspection projects, cost proposals, engineering estimates and schedules.

Roadway and Civil Engineering Projects

Senior project manager for roadway and civil engineering projects, drainage, traffic, signalization, roadway lighting, stripping and marking, MOT, airfield pavement and CEI. Also responsible for marketing with government agencies and private clients.

Highway Design Engineer: West Flagler Street (from Palmetto Expressway to SW 87th Avenue) - Miami, Florida

Project engineer for the design a highway improvements project including drainage, pavement, signage, traffic control plans, and construction phase services.

Highway Design Engineer: West Flagler Street (from Palmetto Expressway to SW 137th Avenue) - Miami, Florida

Project engineer for the design a highway improvements project including drainage, pavement, signage, traffic control plans, and construction phase services.

FDOT District 6: PD&E Study for Venetian Causeway - Miami, Florida

Project engineer for the corridor analysis to replace all bridges connecting all the islands between the mainland and Miami Beach along the existing causeway and improve the existing connecting roadways within the islands. Considered in the study were noise, air, hazardous materials, new bridge and roadway alignments, drainage, hydraulic report, environmental assessments, permitting, corridor analysis, utility coordination, public involvement, and all other components included in this type of study.

KEY QUALIFICATION

Partha Ghosh has 25+ years of comprehensive experience working with the Florida's Turnpike Enterprise (FTE) and FDOT Districts (specifically District IV & VI) in the field of Geotechnical and Materials Engineering. He has served as the Senior Engineer/Project Manager and Geotechnical Engineer of Record for major FDOT/FTE projects in South Florida. He has extensive experience in performing field and in-house investigation for roadway and bridge foundations, quality control/assurance of Construction Engineering Inspection and utilizing the Standard Index System, and prepared the geotechnical reports for major FTE/FDOT Highway and Bridge projects.

EDUCATION & PROFESSIONAL REGISTRATIONS

M.S., Geotechnical Engineering, Clemson University, South Carolina, USA, 1993

B.S., Civil Engineering, Jadavpur University, Calcutta, India, 1988

Registered Professional Engineer, Florida, 1997

International Society of Soil Mech. & Geo Engg. (ISSMGE)

Florida Engineering Society (FES)

American Society of Civil Engineers (ASCE)

American Society of Highway Engineers (ASHE)

RELEVANT WORK EXPERIENCE

Mr. Ghosh has served as the Senior Engineer/Project Manager and Geotechnical Engineer of Record (GeoEOR) for the following FDOT / FTE projects:

Interstate I-95 HOV Lanes, From South of PGA Boulevard to South of Donald Ross Road, Palm Beach County, FL: Widening of I-95 for 3 miles, which included widening two existing bridges, MSE and sheet pile walls for grade separation, noise barrier walls, and sign and miscellaneous structures. The foundation system at one bent for one of the bridges used drilled shafts to minimize/eliminate the effect of any vibration caused due to foundation construction to the existing underground drainage structures.

Interstate I-95 HOV Lanes, From Linton Blvd. to LWDD L-30 Canal, Palm Beach County, FL: Widening of I-95 from Linton Boulevard to LWDD L-30, which included replacement/widening five existing bridges, MSE and sheet pile walls for grade separation and sign and miscellaneous structures.

Interstate I-95 HOV Lanes, From LWDD L-30 Canal to Gateway Boulevard, Palm Beach County, FL: Widening of I-95 for about 4 miles, which included replacement/widening two existing bridges, MSE and sheet pile walls for grade separation and sign and miscellaneous structures.

Interstate I-95 HOV Lanes, From Gateway Boulevard to 6th Avenue, Palm Beach County, FL: Widening of I-95 for about 4 miles, which included replacement/widening two existing bridges, MSE and sheet pile walls for grade separation and sign and miscellaneous structures.

Interstate I-95 HOV Lanes, 6th Avenue to Forest Hill Blvd., Palm Beach County, FL: Widening of I-95 for about 4 miles, which included replacement/widening five existing bridges, MSE and sheet pile walls for grade separation, noise barrier walls, and sign and miscellaneous structures.

Interstate I-95 HOV Lanes, From Forest Hill Boulevard to Congress Avenue, Palm Beach County, FL: Widening of I-95 for about 5 miles, which included replacement/widening three existing bridges, MSE and sheet pile walls for grade separation, noise barrier walls, and sign and miscellaneous structures.

Interstate I-95 HOV Lanes, From Blue Heron Boulevard to PGA Boulevard, Palm Beach County, FL: Field exploration in

reference to widening of I-95 for about 3.4 miles.

Interstate I-595 P3, From West of 136th Avenue to East of I-95, Broward County, FL: Performing (\pm \$ 1.5 million) field exploration and laboratory testing for proposed bridge widenings, new bridges, MSE and bulk head walls to be included as part of the RFP package delivered to the shortlisted P3 firms for preparation of their bid package. Assisted I-595 Corridor Design Consultant [CDC] Team to prepare the RFP for the biggest P3 project in Florida. **Geotechnical Task Leader** for review of all geotechnical reports/documents prepared for the project by the Concessionaire.

Interstate I-75 Managed Lanes Design Builds; From SR 826 in Miami-Dade County to I-595 in Broward County, FL: Performing (\pm \$ 1.3 million) field exploration and laboratory testing for proposed bridge widenings, new bridges, MSE and sound barrier walls to be included as part of the RFP package delivered to the shortlisted firms for preparation of their bid package. Assisting FDOT & Consultant Team to prepare the RFP package, review and evaluate the ELOIs & Technical Proposals. Presently, **Geotechnical Task Leader** for review of all geotechnical reports/documents prepared for the project by the DB Teams for all 5 segments.

Florida's Turnpike Widening, From HEFT to Johnson Street, Final Design, Broward County, FL: Widening of FL's Turnpike for 3.7 miles, which included two new bridges, widening three existing bridges, MSE and sheet pile walls for grade separation, noise barrier walls along right-of-way line, and sign and miscellaneous structures. The foundation system used drilled shafts to minimize/eliminate the effect of any vibration caused due to foundation construction to nearby structures.

Florida's Turnpike Widening, From Sunrise Boulevard to Atlantic Boulevard, PD&E & Final Design, Broward County, FL: Widening of FL's Turnpike for 6.7 miles, which included two bridge replacements, widening three (one over C-13 Canal) bridges, MSE and sheet pile walls for grade separation, noise barrier walls along right-of-way line, and sign and miscellaneous structures.

SR 704/Royal Park Bridge Replacement and Intersection Improvements, Palm Beach County, FL: New bascule bridge joining West Palm Beach and Palm Beach over ICWW replacing the existing old bridge. The foundation system used drilled shafts to minimize/eliminate the effect of any vibration caused due to foundation construction to nearby structures. The drilled shafts were post grouted to achieve additional axial capacity.

SR 732/Jensen Beach Causeway Bridge Replacement, CR 723 to SR AIA, Martin County, FL: Three bridges, i.e., The West Relief Bridge, a low level structure which was widened, The Main Channel (Frank A. Wacha) Bridge, a bascule bridge which was replaced with a new bridge along an alignment shifted slightly north of the old bridge and The East Relief Bridge, a low level structure which was replaced.

Interstate I-95 PD&E Study, From South of Indrio Road to North of CR512 [21 miles], St. Lucie & Indian River County, FL: 21 mile long PD&E Study corridor along I-95, including four proposed bridge widening/replacements and one new I-95 interchange.

Interstate I-95 PD&E Study, From Oakland Park Boulevard to Glades Road [13.6 miles], Palm Beach & Broward County, FL: 13.6 mile long PD&E Study corridor along I-95, including sixteen proposed bridge widening/replacements and new I-95 interchange.

CR510 PD&E Study, From CR512 to Indian River Bridge, Indian River County, FL: **Project Manager/Geotechnical Engineer of Record** for widening of County Road CR510 for about 3 miles, which included replacement/widening four existing bridges, MSE and sheet pile walls for grade separation and sign and miscellaneous structures.

Florida's Turnpike Design Build Project AET-5B along Sawgrass Expressway, Broward County, FL: Modification of Turnpike Mainline & Sawgrass Expressway Interchange, 19 new (gantry) toll facilities, 16 new sign structures, and minor roadway improvements. Foundation construction monitoring & certification.

Florida's Turnpike Enterprise, Pompano Operations Center Expansion, Broward County, FL: Proposed building addition to accommodate the Toll Operations (TO) and Audit Group and the Traffic Management Center (TMC) facility at the Pompano Operations Center which is located at the Pompano Beach Service Plaza (MP 65). The TO and TMC facility will contain approximately 25,200 square feet in a two-story building addition to be located to the south of the existing Pompano Operations Center building.

KEY QUALIFICATION

Zhijun Pan has earned two (2) MS degrees in Geotechnical Engineering and 11 years of analysis and design experience in the field of Geotechnical and Materials Engineering. He has conducted a wide range of geotechnical engineering analysis which encompasses combining the measured physical parameters of the subsoils with the design intent to predict the soil structure interaction and recommending specific foundation type, depth and size for existing subsoils. Specifically, this involves the use of classical soil mechanics theory and foundation engineering.

EDUCATION

M. S., Geotechnical Engineering; University of Delaware, Newark, DE; 2004
M. S., Geotechnical Engineering; Tongji University, Shanghai, China; 2001
B. S., Civil Engineering; Tongji University, Shanghai, China; 1998
Registered Professional Engineer, Florida, 2010

SUMMARY OF CAPABILITIES

- Developed Soil Exploration Program & Performed/Reviewed Soil Classification for borings
- Developed Laboratory Testing Program & Review and Analyze Laboratory and Field Test data
- Developed Roadway Soil Survey based on roadway soil borings and laboratory test results
- Performed Lateral and Vertical Load Analyses of Pile & Drilled Shaft Foundations
- Bearing Capacity Calculations and Settlement Analyses of Shallow Foundations
- Overall Stability Analyses of Mechanically Stabilized Earth (MSE) Retaining Walls
- Cantilever and Anchored Sheet Pile Wall Analyses
- Cantilever and Span Sign Structure Foundation Analyses
- Earth Dam (Embankment) Slope Stability and Dam Foundation Settlement Analyses
- Prepared Geotechnical Reports for Roadway and Structures
- Prepared Electronic Submittal Documents as per FDOT Standards

RELEVANT WORK EXPERIENCE

Mr. Zhijun Pan has served as the Project Geotechnical Engineer for the following FDOT / FTE projects:

I-95 HOV Lanes, From South of PGA Boulevard to South of Donald Ross Road, Palm Beach County, FL: Widening of I-95 for 3 miles, which included widening two existing bridges, MSE and sheet pile walls for grade separation, noise barrier walls along both sides, and sign and miscellaneous structures. His duties included reviewing field exploration program and laboratory test results, performing final engineering analysis and preparing final geotechnical (roadway & structure) reports. The foundation system at one bent for one of the bridges used drilled shafts to minimize/eliminate the effect of any vibration caused due to foundation construction to the existing underground drainage structures.

I-95 Widening, From St. Lucie / Indian River County Line to N. of SR 60, Indian River County, FL: Widening of I-95 for 6.5 miles, which included replacing / widening three existing bridges, MSE and sheet pile walls for grade separation, noise barrier walls along both sides, and sign and miscellaneous structures. His duties included reviewing field exploration program, laboratory test results, performing final engineering analysis and preparing final geotechnical (roadway & structures) reports and foundation certification.

I-95 Interchange with Spanish River Boulevard, From N. of Glades Road to N. of Spanish River Blvd., Palm Beach County, FL: Widening of I-95 & cross-roads for +4.0 miles, which included proposing / widening thirteen (13) bridges, MSE and sheet pile walls for grade separation, noise barrier walls along both sides, and sign and miscellaneous structures. His duties included reviewing field exploration program and laboratory test results, performing final engineering analysis and preparing final geotechnical (roadway & structures) reports, and foundation certification.

I-595 / SR862 P3 From W of 136th Avenue to E of I-95, District 4, Broward County, FL: Performing (about \$ 1.5 million) field exploration and laboratory testing for proposed bridge widenings, new bridges, MSE and bulk head walls to be included as part of the RFP package delivered to the shortlisted P3 firms for preparation of their bid package. His duties involved developing and implementing field exploration program, laboratory testing program, review and compile laboratory testing data, finalized Report of Core Boring sheets, and prepared final submittal documents for RFP package.

Interstate I-75 Managed Lanes Design Builds; From SR 826 in Miami-Dade County to I-595 in Broward County, FL: Performing (\pm \$ 1.3 million) field exploration and laboratory testing for proposed bridge widenings, new bridges, MSE and sound barrier walls to be included as part of the RFP package delivered to the shortlisted firms for preparation of their bid package. Assisting FDOT & Consultant Team to prepare the RFP package, review and evaluate the ELOIs & Technical Proposals. Presently, assisting in the review of all geotechnical reports/documents prepared for the project by the DB Teams for all 5 segments.

I-95 PD&E Study, From Glades Road to Oakland Park Boulevard, Palm Beach and Broward County, FL: Field exploration of 13.6 mile long PD&E Study corridor along I-95, including sixteen proposed bridge widening/replacements and new I-95 interchange. His duties included developing field exploration program, required laboratory testing and engineering analysis and preparing soil profile and report of core boring sheets.

I-95 PD&E Study, South of Indrio Road to 1.26 mile North of CR512, St. Lucie and Indian River Counties, FL: Field exploration of 21 mile long PD&E Study corridor along I-95, including four proposed bridge widening/replacements and one new I-95 interchange. His duties included developing field exploration program, required laboratory testing, engineering analysis and preparing geotechnical reports.

CR510 Final Design, Indian River County, FL: Widening of County Road CR510 for about 3 miles, which included replacement/widening four existing bridges, MSE and sheet pile walls for grade separation and sign and miscellaneous structures. His duties included developing field exploration program (roadway borings on both sides of CR510, structure borings for bridge new/widening and sign structures, etc.), required laboratory testing, engineering analysis and preparing geotechnical reports.

Florida's Turnpike Widening, From Sunrise Boulevard to Atlantic Boulevard, PD&E & Final Design, Broward County, FL: Widening of FL's Turnpike for 6.7 miles, which included two bridge replacements, widening three (one over C-13 Canal) bridges, MSE and sheet pile walls for grade separation, noise barrier walls along right-of-way line, and sign and miscellaneous structures.

Florida's Turnpike Widening, From HEFT to Johnson Street, Final Design, Broward County, FL: Widening of FL's Turnpike for 3.7 miles, which included two new bridges, widening three existing bridges, MSE and sheet pile walls for grade separation, noise barrier walls along right-of-way line, and sign and miscellaneous structures. The foundation system used drilled shafts to minimize/eliminate the effect of any vibration caused due to foundation construction to nearby structures.

Florida's Turnpike Design Build Project AET-5B along Sawgrass Expressway, Broward County, FL: Modification of Turnpike Mainline & Sawgrass Expressway Interchange, 19 new (gantry) toll facilities, 16 new sign structures, and minor roadway improvements. Foundation construction monitoring & certification.

Florida's Turnpike Widening, From Lake Worth Road to Okeechobee Boulevard, Palm Beach County, FL: Widening of FL's Turnpike for 5.5 miles, which included a bridge widening over L-5 Canal, one new ramp bridge over C-51, MSE and sheet pile walls for grade separation.

Florida's Turnpike Enterprise, Pompano Operations Center Expansion, Broward County, FL: Proposed building addition to accommodate the Toll Operations (TO) and Audit Group and the Traffic Management Center (TMC) facility at the Pompano Operations Center which is located at the Pompano Beach Service Plaza (MP 65). The TO and TMC facility will contain approximately 25,200 square feet in a two-story building addition to be located to the south of the existing Pompano Operations Center building.

I-95 Bridge over Box Culvert, Palm Beach County, FL: Designing a 60 foot long, single span bridge along I-95 over an existing 10' x 11' quadruple box culvert to accommodate possible future removal of the box culvert and to create an open channel. His duties included developing field exploration program (structure borings for the bridge), required laboratory testing, engineering analysis and preparing geotechnical reports.



Jason R. Cummins, M. SC., P.E.

Principal Engineer

Relevant Expertise:

- Planning and feasibility of marine infrastructure projects
- Under water investigations(SCUBA)
- Coastal design criteria - tides, waves, currents, hurricanes
- Structural design of steel and concrete marine structures
- Bathymetric surveying

Mr. Cummins is a Coastal Engineer with significant experience in planning, engineering, regulatory permitting and ultimate construction of coastal and waterfront development and infrastructure projects in Florida, Caribbean and Latin America.

Mr. Cummins is a registered Professional Engineer in the U.S.; capable of designing marine facilities, shoreline stabilization and coastal structures. He is proficient in the application of numerical models, including the Danish Hydraulics Institute (DHI) MIKE-21 suite of numerical modeling tools, structural analysis tools and Federal State and Local design codes.

In addition to his professional achievements, Mr. Cummins presently serves on the non-profit Board for Bill Baggs Cape Florida State Park.

EDUCATION

B. Sc. & M.Sc. Coastal and Oceanographic Engineering, University of Florida

REGISTRATION

Professional Engineer
Florida No. 71538

PROFESSIONAL AFFILIATIONS

Urban Land Institute

American Society of Civil Engineers

American Institute of Architects

South Florida Association of Environmental Professionals.

RELEVANT EXPERIENCE

Sediment Study, Turks and Caicos. Field investigations to collect sediment core samples from the seabed in multiple locations. Collected samples were tested for grain size and composition. Conducted coastal study to evaluate wind, wave and tidal forcing mechanisms relating to sediment transport.

Great Stirrup Cay Development, Exumas, Bahamas. Site investigations and master planning for cruise ship private island destination improvements to accommodate 5,000 passenger cruise ships. Evaluated coastal processes, potential cruise ship pier alternative locations, and island infrastructure improvements. Numerical modeling of hurricanes, storm surge, wave propagation and hydrodynamics. Engineering design of beach expansion with use of natural breakwaters.

One Miami Condominium, Miami. Above and below water structural inspection of more than 900 feet of bulkhead consisting of steel sheet piles, reinforced concrete cap, and concrete mat scour protection. Prepared engineering report to document investigation, including specific deficiencies, conditions rating and cost estimate for recommended repairs.

Winston Towers 700, Sunny Isles Beach. Repair and/or replacement of more than 1,000 feet of seawall for shoreline stabilization for large condominium. Above/below water condition inspection, seawall redesign (steel sheet pile), permitting support, construction administration, vibration monitoring

Port of Roatan Cruise Terminal, Roatan, Honduras. Design of reclamation and shore protection for cruise terminal expansion. Numerical modeling of hurricane, storm surge, and wave propagation. Site inspections and surveying.

Ambergris Cay, Turks and Caicos. Engineering design of coastal works including entrance channel, dredging, 150-slip marina, and RO/RO platform for shipments to remote island. Performed hydrodynamic numerical modeling of the flushing characteristics for a proposed marina basin.

Costa Brava Marina, Miami Beach, Florida. Costa Brava Condominium Association. Environmental permitting for reconstruction of a 30-slip marina in Biscayne Bay through local, State, and Federal Agencies Such as Miami-Dade County Regulatory, Economical Resources Department, Florida, Department of Environmental Protection and US Army Corps of Engineers. Engineering support through construction bid process, including bid evaluation, contractor selection and construction administration.

Dade Boulevard Seawall Replacement, Miami Beach, Florida: Marine engineering and construction drawings for 2,670 linear feet of shoreline stabilization associated with a linear park and bike path. Structural design of steel sheet pile and reinforced concrete cap, including barrier wall connection, and utility crossover detail for FPL 69KV oil-filled transmission line.

Jason Cummins, M.Sc., P.E.

Principal Engineer

RELEVANT EXPERIENCE

Vizcaya Museum & Gardens, Miami, Florida: Site plan for storm surge protection wall, environmental wetland restoration and public space. Grant application, regulatory permitting, and engineering design for marine works. Wall design for reinforced concrete able to withstand storm surge and high wave loads associated with tropical storm event.

Goldeneye, Jamaica. Hydrographic survey and tidal study of Oracabessa Bay for proposed coastal development. Statistical analysis of historical wave data from satellite measurements to develop deep-water wave conditions. Wave and hydrodynamic numerical modeling. Design of coastal structures and piers.

14th Street End Seawall Project, Miami Beach. Marine engineering for new seawall in association with street-end and storm water pump station improvements. Seawall constructed at increased design elevation from concrete piles and panels with reinforced concrete cap, as well as opening for outfall. Construction inspection performed for concrete pours and pile/panel installation.

Miami Beach Emergency Truck Haul, Miami Beach. Performed surveying, data collection, volumetric and equilibrium toe of fill analysis based on available historical beach profiles and proposed fill volumes for four segments of beach. Designed fill template to maximize emergency truck haul nourishment based on observed eroded conditions. Survey stake-out of proposed fill template.

Fort Zachary Taylor State Park, Key West. Above and below water inspection of breakwaters, terminal groin, as well as topographic survey to accurately identify rock displacement and settlement. Coastal engineering design and environmental permitting for truck-haul beach fill project.

Sun Power Diesel Marina Facility, Broward County. Dredging design for the proposed marina basin as well as dock and bulkhead design to support a 300-slip dry storage facility. Current and tide measurements were obtained to calibrate a numerical hydrodynamic model, which was then utilized to evaluate the flushing time for the proposed dredged conditions.

Hillsboro/Deerfield Beach Restoration, Broward County. Coastal engineering and environmental permit processing for 400k cubic yard beach fill project. Engineering design of beach fill template. Cross-shore sediment transport modeling. Geotechnical investigations and dredge plan for offshore borrow source. Construction drawings and technical specifications.

Sunset Harbour Yacht Club, Miami Beach. Repairs of concrete slabs, caps and piles for 125 slip yacht marinas. Environmental permit applications were prepared and processed with the Miami Dade County Regulatory and Economical Resources Department, Florida Department of Environmental Protection and US Army Corps of Engineers. Detailed repair drawings were prepared with specific criteria to minimize impacts to adjacent structures, including the removal and replacement of severely deteriorated deck slabs. Construction administration services were provided to review in accordance with construction documents and environmental permits.

North District Wastewater Treatment Plant. Assessment of coastal resiliency of important infrastructure components relative to flooding and sea level rise. Analyzed storm surge impacts from historical hurricane events as well as assessed potential and magnitude of future impacts. Evaluated risk and probability of various events.

Winston Tower 700, Sunny Isles Beach. Construction of 240 feet of seawall and repair of 800 feet seawall for shoreline stabilization at large condominium. Above/below water condition inspection, seawall replacement and repair design, permit application and processing

Ocean Cay, Bahamas. Topographic and bathymetric surveying, rectified aerial photography and mapping for proposed out-island cruise destination. Environmental resource surveys and preparation of Environmental Impact Assessment (EIA) for proposed land and marine works. Detailed coastal engineering analysis, including numerical modeling of hurricane impacts. Engineering design of beach improvements and shoreline stabilization of reshaped island perimeter. Processing of EIA through government regulatory agencies.

Port Development Feasibility, Panama. Conducted feasibility study for the development of a port facility, including the potential for cruise operations and ship repair facility. Evaluated coastal design criteria, including wind, waves, water levels and currents. Reviewed existing water depths, navigational requirements and potential dredging. Prepared conceptual layouts of proposed facilities, and cost estimates for construction and operational equipment.



Jannek Cederberg, M. SC., P.E.

Principal Engineer

Relevant Expertise:

- Waterfront engineering and planning
- Coastal resiliency
- Numerical modeling
- Environmental Permitting
- Coastal and marine structures
- Coastal processes - waves, currents, sediment transport, hurricanes

As Principal, Mr. Cederberg is responsible for all engineering production including scheduling, resource allocation, and quality management.

Mr. Cederberg is formally trained as a coastal and marine engineer from the Technical University of Denmark. He has more than fifteen years of experience in coastal and marine engineering.

He is a registered professional Engineer in the United States and he has completed engineering analyses, designs and permitting for a variety of shore protection, beach nourishment, river, cruise ship, marina and water front projects throughout Florida, the Caribbean and Central America.

EDUCATION

M. Sc, Coastal Engineering.
Technical University of
Denmark

REGISTRATION

Registered Engineer
State of Florida
Reg. No. 69839

PROFESSIONAL AFFILIATIONS

Permanent International Association
of
Navigation Congress

Member of PIANC Working group
"Design and Operational
Guidelines for Superyacht Facilities"

Danish Society of Hydraulic
Engineering

RELEVANT EXPERIENCE

Sunset Harbour Yacht Club, Miami Beach. Sunset Harbour Yacht Club. The project included repairs of concrete slabs, caps and piles for 125 slip marina located in Biscayne Bay Aquatic Preserve which has strict environmental guidelines. A marine resource assessment was conducted to assess potential impacts. Pre-application meetings were conducted with environmental agencies to understand primary concerns and potential impacts on schedule. Environmental permit applications were prepared and processed with DERM, FDEP, and USACE. Building permit was obtained with City of Miami Beach. Detailed repair drawings were prepared with specific criteria to minimize impacts to marine resources and water quality.

Dade Boulevard Seawall Replacement, Miami. Harbour Construction / City of Miami Beach. Marine engineering and construction drawings for 2,670 linear feet of seawall replacement with steel sheet pile and reinforced concrete cap. Structural design of barrier wall connection to cap, and utility crossover detail for FPL 69KV oil-filled transmission line. Pre-construction seawall inspection of opposite shoreline, and vibration monitoring during pile driving activity.

One Miami Condominium, Miami. Above and below water structural inspection of more than 900 feet of bulkhead consisting of steel sheet piles, reinforced concrete cap, and concrete mat scour protection. Prepared engineering report to document investigation, including specific deficiencies, conditions rating and cost estimate for recommended repairs.

Museum Park, Miami. Planning of marine amenities and environmental permitting feasibility study completion relative to a proposed marina, marine exhibit area and other public amenities along the shoreline and within a basin on Biscayne Bay as part of the proposed \$60 million Museum Park improvements project.

Crandon Park Marina, Key Biscayne. Field investigations including bathymetric surveying, tide and current measurements, marine resource survey, and sediment sampling. Tidal hydrodynamic modeling along with wave and sediment transport analyses conducted to determine source and magnitude of marina sedimentation problem. Alternatives assessment of potential coastal structures to inhibit sedimentation and need for periodic dredging.

Vizcaya Museum & Gardens, Miami. site plan for storm surge protection wall, environmental wetland restoration and public space. Grant application, regulatory permitting, and engineering design for marine works. Wall design for reinforced concrete able to withstand storm surge and high wave loads associated with tropical storm event.

Jannek, M.Sc., P.E.

Principal Engineer

RELEVANT EXPERIENCE

Costa Brava Marina, Miami Beach, Florida. Costa Brava Condominium Association. Environmental permitting for reconstruction of a 30-slip marina in Biscayne Bay through local, State, and Federal Agencies Such as Miami-Dade County Regulatory, Economical Resources Department, Florida, Department of Environmental Protection and US Army Corps of Engineers. Engineering support through construction bid process, including bid evaluation, contractor selection and construction administration.

Rickenbacker Causeway Recreation Area, Miami. Design of shoreline stabilization and associated public recreation area improvements along 2.5 miles of shoreline of the Rickenbacker Causeway across Biscayne Bay. Marine resource and hydrographic surveys completed, and coastal engineering analysis conducted to assess design wave conditions, sediment transport and optimum shoreline stabilization methods. Design elements included landscaping, invasive species removal with native species restoration, parking improvements, stormwater management and vendor kiosks for waterfront activities.

Great Stirrup Cay Development, Berry Islands, Bahamas. Site investigations, engineering analyses and master planning for cruise ship private island destination improvements to accommodate 5,400 passenger cruise ships. Evaluated coastal processes, potential cruise ship pier island infrastructure improvements, and beach design concepts.

Cap Cana Marine Works, Punta Cana, Dominican Republic. Coastal engineering design for the dredging of 1.25-mile canal to create basin for 500+ slip marina. Design of shoreline stabilization, beaches, entrance channel jetties, numerical modeling of coastal processes and hydrographic surveying. Water circulation analysis of marina and canal layout.

Miami Beach Emergency Truck Haul, Miami Beach. Performed surveying, data collection, volumetric and equilibrium toe of fill analysis based on available historical beach profiles for four segments of beach. This information was utilized in designing the expansion of beach segments for maintenance nourishment.

North District Wastewater Treatment Plant. Assessment of coastal resiliency of important infrastructure components relative to flooding and sea level rise. Analyzed storm surge impacts from historical hurricane events as well as assessed potential and magnitude of future impacts. Evaluated risk and probability of various events.

Regional Sediment Transport Study, Miami. Shoreline and sediment transport studies performed on the coast of Miami-Dade County between Bakers Haulover Inlet and Government Cut. Numerical modeling conducted utilizing Danish Hydraulics Institute (DHI) MIKE 21 and LITPACK software to simulate waves and nearshore coastal processes.

Winston Tower 700, Sunny Isles Beach. Construction of 240 feet of seawall and repair of 800 feet seawall for shoreline stabilization at large condominium. Above/below water condition inspection, seawall replacement and repair design, permit application and processing (DERM/USACE/DEP), construction administration.

Key West Risk Mapping, Key West. Erosion and scour assessment based on existing beach and seawall conditions. Numerical modeling of wave propagation, storm surge and potential wave run up impacts.

14th Street End Seawall Project, Miami Beach. Marine engineering for new seawall in association with street-end and storm water pump station improvements. Seawall constructed at increased design elevation from concrete piles and panels with reinforced concrete cap, as well as opening for outfall. Construction inspection performed for concrete pours and pile/panel installation.

Carrs & Little Bay Port and Waterfront Development, Montserrat. Cummins Cederberg served as marine advisor for the Government of Montserrat for \$100M+ port and waterfront development. The development consists of cruise ship and cargo vessel berthing, 50+ slip marina, river stabilization, waterfront promenade and beaches. Participated and led marine engineering components of planning workshops to develop holistic master plan. Review tender documents and qualifications packages. Review of all technical analyses and designs. Assisted in navigation review and optimization through real time 360-degree simulation of cruise ships and cargo vessel. Provided recommendations to value engineer designs, reduce cost and increase efficiency.

Power Diesel Marina Facility, Broward County. Dredging design for the proposed marina basin as well as dock and bulkhead design to support a 300-slip dry storage facility. Current and tide measurements were obtained to calibrate a numerical hydrodynamic model, which was then utilized to evaluate the flushing time for the proposed dredged conditions.

JORGE R. AVIÑO, PE, PSM, CGC



Professional Background

Professional Engineer, Civil Engineering, Florida, No. 22207
Professional Surveyor and Mapper, Florida, No. 4996
Certified General Contractor, Florida, No. 026673
Real Estate Broker, Florida, No. BK0473247
Bachelor of Science in Civil Engineering, University of Miami, 1975

Mr. Aviño has 41 years of experience providing civil engineering and municipal engineering design, surveying, and construction administration services throughout South Florida for public and private entity clients. For the majority of his professional career, Mr. Aviño has been responsible for the management, design and construction administration of numerous civil engineering and surveying projects. His numerous registrations including Professional Engineer (PE), Professional Surveyor and Mapper (PSM), Certified General Contractor (CGC), and Real Estate Broker licenses prove to be an asset in executing a project. Mr. Aviño is highly regarded for his skills to implement effectively concurrent projects. In addition, he has extensive experience with public involvement and working closely with governing agencies.

Professional Experience

President: Avino & Associates, Inc. - Miami, Florida

Mr. Aviño is responsible for the supervision of a staff of engineers, surveyors, inspectors, technicians, and clerical personnel preparing budgets, cost controls, work schedules, proposals, client interaction, and business development and marketing activities for the firm. In addition, project planning; design; contract specifications; surveying; construction documents preparation; construction administration and coordination with governmental agencies and other professionals.

Deputy Director: Capital Improvements Department & Assistant Public Works Director: City of Miami, Florida

As Deputy Director, Mr. Aviño supervised a staff of architects, engineers and capital improvement program coordinators personnel. His responsibilities included project planning, and construction documents preparation for the implementation of the City's Bond Program and the existing Capital Improvements Program (CIP). Mr. Aviño attended public hearings as the City's liaison of the Bond Oversight Board and with the different agencies involved with the CIP, meetings with the communities representing the Department and attended the City's Commission Meetings. He coordinated with the other department directors to ascertain the needs of each respective department CIP implementation. As Assistant Director of the Public Works Department, Mr. Aviño supervised a staff of architects, engineers, surveyors and inspectors directing the daily operations of the Public Works Department. He prepared budgets, work schedules and was a liaison to the City Commission on matters dealing with the department and had to attend meetings with the constituents of the City of Miami.

TYPICAL PROJECT ASSIGNMENTS

- **EDP Contract (EDP-WS-218) for Miami-Dade County Water and Sewer Department, Miami-Dade County, FL:**
Performed full Right-of-Way topographic survey of approximately 1,800 lineal feet showing all above ground visible features, valves, sidewalks, pavements, etc. The water distribution system consisted of the design and preparation of the plans and profiles of the water main along SW 138th Street from SW 99th Avenue to SW 97th Avenue and along SW 99th Avenue between SW 138th Street and SW 136th Street and closing the loops thereof. In addition, our scope of work includes the permitting of said water main through the permitting agencies consisting of Miami-Dade Public Works and Waste Management Department, the Miami-Dade Fire Rescue Department, the Miami-Dade Regulatory and Economic Resources Department Environmental Resources Management Division and the State of Florida Department of Health.
- **Gables Residential Phases I & II; City of Coral Gables, Miami-Dade County:**
Infrastructure improvements on these 3.15-acre, 10-story residential units projects, including the Boundary and Topographic Survey Map; preparation of the Condominium Documents Survey Map; the Paving and Drainage plans together with the Drainage Calculations thereof including two (3) Drainage Injection Wells; the Stormwater Pollution Prevention Plans; the Pavement Marking and Signing plans; the Water Distribution Systems plans including up to 12-inch water lines; the Gravity Sanitary Sewer Collection Systems plans; Cost Estimating; Project Specifications, and coordination with the Florida Department of Transportation (FDOT) for the work that was adjacent to S.W. 42nd Avenue including the Access Connection Permits, the Drainage Connection Permits, and the Utility Permits. We also provided construction administration services which included, but not limited to, shop drawing reviews, answer RFI's, reviews and certification of "As-Builts" as the Engineer-of-Record for the water, sanitary sewer, and the paving and drainage work and prepared the required certifications to the local permitting Agencies Having Jurisdiction (AHJ) for the scope of work involved. Phase I of this project was a ten-story building next to existing one-story businesses and

JORGE R. AVIÑO, PE, PSM, CGC



commercial properties, one of which was a day-care center that was adjacent to the property. Special consideration was given so that there were minimal interruptions to their activities.

- **A. B. at Tamiami Trail Phases 1-5, Miami-Dade County, FL:** Prepared the plans for all the infrastructure improvements in this 193-acre, 703 residential units project, including boundary and topographic surveys, platting of the property, paving and drainage, five (5) drainage retention lakes, wetland mitigation plans, Class IV wetland permits, Environmental Resources Permits (ERP), dedicated tree preservation areas, pavement markings and signing plans, water distribution systems plans including up to 16-inch water lines, gravity sewer collection systems plans, a 455 gpm regional sanitary sewer pump station, including up to 20-inch force main lines, and coordination with the FDOT for the adjacent work along S.W. 8th Street including access connection permits, drainage connection permits, and utility permits.
- **Babcock National Guard Armory Renovation and Expansion; City of West Palm Beach, Palm Beach County:** 3.57-acre site consisting of the renovations and expansion of the facility. This project consisted of the preparation of the boundary and topographic survey; the paving and drainage plans; the pavement marking and signing plans; the water distribution system plans; and the gravity sanitary sewer collection system plans.
- **Homestead National Guard Armory Renovation; Miami-Dade County:** 6-acre± site consisting of the renovations of the facility. This project consisted of the preparation of a specific purpose topographic survey; the water distribution system plans; and the gravity sanitary sewer collection system plans. The work had to be coordinated with the Homestead Air Reserve Base Utilities for water connections and the Miami-Dade County Water and Sewer Department for the sewer connections.
- **Laguna Ponds, Miami-Dade County, FL:** Prepared the plans for all the infrastructure improvements in this 119-acre, 603 single family residential units project, including boundary and topographic surveys, platting of the property, paving & drainage, drainage retention lakes, environmental resources permits, pavement markings and signing plans, water distribution systems plans including up to 16-inch water lines, gravity sewer collection systems plans, a regional sanitary sewer pump station, including an 8-inch force main lines, cost estimating, and project specifications. Also provided construction administration services which included, but not limited to, shop drawing reviews, answer RFI's, reviews and certification of "As-Builts" as the Engineer-of-Record for the water, sanitary sewer, and the paving and drainage work and prepared the required certifications to the local permitting agencies for the scope of work involved.
- **Curtiss Mansion Improvements; City of Miami Springs, Miami-Dade County:** Prepared the site design; the paving and drainage plans; and the pavement marking & signing plans for the improvements to the Curtiss Mansion Cultural Facility located in the City of Miami Springs, Florida. Said paving and drainage plans included the flood routing calculations for the 100-year 3-day storm event to determine the finish floor elevations, the 25-year 3-day storm event to determine the peak discharge for the pre and post development and the 5-year 1-day storm event for the grading of the site.
- **Miami-Dade County Water and Sewer Department's Design-Build Services for the Replacement of the Existing 20-inch Water Main and Replacement of the 54-inch Force Main, Miami-Dade County, FL:** Performed full topographic survey of two areas within Fisher Island of approximately 8.99 total acres including pavements, sidewalks, identification and location of all visible utilities and improvements, identification and location of all trees, cross sections at 25-foot intervals, rim elevations and invert elevations of all drainage and sanitary sewer structures. Said work involved gathering boundary information including right-of-way lines, subdivision lines, section lines, lot lines, centerlines, base lines and easement lines. Also, horizontal control was tied to the State of Florida Coordinates System. Prepared sketches and legal descriptions of the proposed water main alignments for the horizontal directional drill from the Port of Miami to Fisher Island including the subsurface areas.
- **Veranda Subdivision, Miami-Dade County, FL:** 7.96-acre development consisting of a 5,000± square foot recreational building, 240 residential units in 10 buildings. This project consisted of the preparation of the boundary and topographic survey; tentative and final plat; the paving and drainage plans; the pavement marking and signing plans; the water distribution system consisting of 12-inch and 8-inch lines and 6-inch fire line plans; and the gravity sanitary sewer collection system plans consisting of 8-inch lines and manholes.
- **Aloft Hotel & Element Hotel, City of Doral, Miami-Dade County, FL:** 4.97-acre hotel development consisting of 288 units. This project consisted of the preparation of the paving and drainage plans including the Environmental Resources Permit (ERP) and the flood routing calculations; the pavement marking and signing plans; the water distribution system and fire line plans; and the gravity sanitary sewer collection system plans.

NOBEL VALENCIA, PE



Professional Background

Professional Engineer, Civil Engineering, Florida, No. 72193
Bachelor of Science in Civil Engineering, Universidad Autónoma de Santo Domingo (U.A.S.D.), Dominican Republic., 1991

Mr. Valencia has over 25 years of experience providing civil engineering and municipal engineering design and construction administration services throughout South Florida and the Dominican Republic for public and private entity clients. For the majority of his professional career, Mr. Valencia has been responsible for the design and construction administration of numerous civil engineering projects. Mr. Valencia is highly regarded for his skills to implement effectively concurrent projects. In addition, he has extensive experience with public involvement and working closely with governing agencies.

Professional Experience

Project Civil Engineer: Aviño & Associates, Inc. - Miami, Florida

As Project Civil Engineer, Mr. Valencia is responsible for the supervision of a staff of engineers, technicians and CADD operators. He is involved with work schedules; client interaction; project planning; project design; contract specifications; construction documents preparation; construction administration and coordination with governmental agencies and other professionals.

Project Engineer: Bermello, Ajamil & Partners, Inc. - Miami, Florida

As Project Engineer, Mr. Valencia was responsible for the supervision of a staff of engineers, technicians and CADD operators. He was involved with work schedules; project planning; project design; contract specifications; construction documents preparation; construction administration and coordination with governmental agencies and other professionals.

TYPICAL PROJECT ASSIGNMENTS

- **Veranda Subdivision, Miami-Dade County:** 7.96-acre development consisting of a 5,000± square foot recreational building, 240 residential units in 10 buildings. This project consisted of the preparation of the boundary and topographic survey; tentative and final plat; the paving and drainage plans; the pavement marking and signing plans; the water distribution system consisting of 12" lines and fire line plans; and the gravity sanitary sewer collection system plans.
- **Aloft Hotel & Element Hotel, City of Doral, Miami-Dade County:** 4.97-acre hotel development consisting of 288 units. This project consisted of the preparation of the paving and drainage plans including the Environmental Resources Permit (ERP) and the flood routing calculations; the pavement marking and signing plans; the water distribution system and fire line plans; and the gravity sanitary sewer collection system plans.
- **Babcock National Guard Armory Renovation and Expansion, Palm Beach County:** 3.57-acre site consisting of the renovations and expansion of the facility. This project consisted of the preparation of the boundary and topographic survey; the paving and drainage plans; the pavement marking and signing plans; the water distribution system plans; and the gravity sanitary sewer collection system plans.
- **EDP Contract (EDP-WS-S-218) for Miami-Dade County Water and Sewer Department, Miami-Dade County, FL:**
Performed full Right-of-Way topographic survey of approximately 2,000 lineal feet showing all above ground visible features, valves, sidewalks, pavements, etc. The water distribution system consisted of the design and preparation of the plans and profiles of the water main along NW 39th Street from NW 15th Avenue to NW 14th Avenue; along NW 15th Avenue between NW 37th Street and NW 39th Street; and along NW 38th Street between NW 16th Avenue to NW 14th Avenue; and closing the loops thereof. In addition, our scope of work includes the permitting of said water main through the permitting agencies consisting of Miami-Dade Public Works and Waste Management Department, the Miami-Dade Fire Rescue Department, the Miami-Dade Regulatory and Economic Resources Department Environmental Resources Management Division and the State of Florida Department of Health.
- **Homestead National Guard Armory Renovation, Miami-Dade County:** 6-acre± site consisting of the renovations of the facility. This project consisted of the preparation of a specific purpose topographic survey; the water

NOBEL VALENCIA, PE



distribution system plans; and the gravity sanitary sewer collection system plans. The work had to be coordinated with the Homestead Air Reserve Base Utilities for water connections and the Miami-Dade County Water and Sewer Department for the sewer connections.

- **New “Concourse “J”, Miami International Airport:** This project consisted of the preparation of the site planning; the paving and drainage plans; the pavement marking and signing plans; the water distribution system plans; the gravity sanitary sewer collection system plans; and the utilities design.
- **New Caribbean Way, Port of Miami:** Responsible for the preparation of roadway plans and construction documents for a 1,500-foot 4-lanes roadway. The project included roadway and drainage plans, intersection design, pavement markings and signing plans.
- **Satellite “E” Expansion, Miami International Airport:** This project consisted of the preparation of the site planning; the paving and drainage plans; the pavement marking and signing plans; the water distribution system plans; the gravity sanitary sewer collection system plans; and the utilities design.
- **Community Redevelopment Agency (CRA), Miami-Dade County:** Prepared the site design; the paving and drainage plans; and the pavement marking & signing plans for a parking lot situated at SW 10th Street in the City of Miami, Florida.
- **Curtiss Mansion Improvements, City of Miami Springs, Miami-Dade County:** Prepared the site design; the paving and drainage plans; and the pavement marking & signing plans for the improvements to the Curtiss Mansion Cultural Facility located in the City of Miami Springs, Florida. Said paving and drainage plans included the flood routing calculations for the 100-year 3-day storm event to determine the finish floor elevations, the 25-year 3-day storm event to determine the peak discharge for the pre and post development and the 5-year 1-day storm event for the grading of the site.
- **Gables Ponce I & II, City of Coral Gables, Miami-Dade County, FL:** Prepared the plans for all the infrastructure improvements for the 2 phases of three 10-story mixed-use buildings consisting of 369 residential units; 16,500 square feet of retail space; 10,000 square foot full-service restaurant; 3,275 square feet of gym space; 22,576 square feet of office space; and including two 3-story parking structure. The work includes the paving and drainage; the pavement markings and signing plans; the water distribution systems consisting of 1,695 LF of 12-inch lines, 30 LF of 8-inch lines, and 100 LF of 6-inch lines; the gravity sewer collection systems plans; cost estimating; and project specifications. He is also providing construction administration services which include, but not limited to, shop drawing reviews, answer RFI’s, reviews and certification of “As-Builts” as the Engineer-of-Record for the water, sanitary sewer, and the paving and drainage work.
- **EDP Contract (EDP-WS-218) for Miami-Dade County Water and Sewer Department, Miami-Dade County, FL:** Performed full Right-of-Way topographic survey of approximately 1,800 lineal feet showing all above ground visible features, valves, sidewalks, pavements, etc. The water distribution system consisted of the design and preparation of the plans and profiles of the water main along SW 138th Street from SW 99th Avenue to SW 97th Avenue and along SW 99th Avenue between SW 138th Street and SW 136th Street and closing the loops thereof. In addition, our scope of work includes the permitting of said water main through the permitting agencies consisting of Miami-Dade Public Works and Waste Management Department, the Miami-Dade Fire Rescue Department, the Miami-Dade Regulatory and Economic Resources Department Environmental Resources Management Division and the State of Florida Department of Health.
- **Joe Moretti Preservation Phase I, City of Miami, Miami-Dade County, FL:** Prepared the plans for all the infrastructure improvements for this 13-story affordable housing building consisting of 116 residential units. The work included the paving and drainage; the pavement markings and signing plans; the water distribution systems consisting of 411 LF of 12-inch lines, 48 LF of 8-inch lines, and the domestic service and fire lines; the gravity sewer collection systems plans; cost estimating; and project specifications. He is also providing construction administration services which include, but not limited to, shop drawing reviews, answer RFI’s, reviews and certification of “As-Builts” as the Engineer-of-Record for the water, sanitary sewer, and the paving and drainage work.
- **Grove Station, City of Miami, Miami-Dade County, FL:** Prepared the plans for the water distribution system and gravity sanitary sewer collection system for this 13-story residential building with a 3-story parking garage consisting of 178 apartment units and 6 townhome units. The work included the water distribution system consisting of 276 LF of 12-inch lines, 342 LF of 8-inch lines, and the domestic service and fire lines; the gravity sewer collection systems plans; cost estimating; and project specifications.

Leticia Fernandez-Beraud, RLA

President, Registered Landscape Architect

Description of Experience, Role and Responsibilities

Registered Landscape Architect with over 23 years of experience in a variety of public and private projects, including highways and streetscapes, transportation projects, parks, education, corporate and health facilities, business centers, ocean ports, and, condominiums. Ms. Fernandez-Beraud actively embarks in master planning and site planning, site analysis, design concepts, design development and documentation, landscape design and maintenance guidelines, cost estimating, construction observation, and, interdisciplinary coordination. Ms. Fernandez-Beraud will be in charge of project design, project management and coordination, construction observation, and team communications

Professional Experience Summary

Parks, Municipal and County Facilities

Margaret Pace Park, City of Miami, Florida, 2003. Role: Landscape Designer. In charge of complete/entire design work, including conceptual master plan, schematic design, presentation images, cost estimating, project multidisciplinary coordination, CPTED design applications with close coordination and revisions with the City of Miami Police Department, the preparation of complete hardscape and landscape construction documentation, and partial construction observation for all phases of this 6-acre urban park on the waterfront of Biscayne Bay in Miami. The project included plazas, promenade, playground, tennis, basketball and volleyball courts, non-professional soccer and cricket fields, and, restroom facilities. Margaret Pace Park has been included as one of two 'successful park' examples in the document *Miami Parks and Public Spaces Master Plan* (page 152).

Flagler Grove Park, Village of Pinecrest, Florida, 2009. Role: Project Manager and Designer. Landscape design development and construction documentation of a 3-acre neighborhood park. The program includes two soccer fields, playground, restrooms and parking lot facilities.

Sunkist Pineland Park, Miami-Dade County, Florida, 2008. Role: Project Manager and Designer. Design concepts and design development of a 1-acre neighborhood park. Emphasis was given to the Rockland Pineland ecosystem restoration. Playground areas for children from 5 to 12 years old, concrete and mulch paths, proposed planting palette, as well as the production of a park booklet.

Scott Rakow Youth Center, City of Miami Beach, Florida, 2010. Role: Project Manager and Designer. Landscape design development, construction documentation and construction observation for a 3-acre existing facility. The project included an additional parking lot, new entrance plaza, upgrade of existing streetscape, and the addition of a new playfield.

Transportation – Roadways

Relocation of Atlantic Boulevard at Higgs Beach Park, 2015-current, City of Key West, Monroe County, Florida. Role: Landscape Architect in charge of design development and construction documentation. Project addresses Phase 1 site renovations and complete street enhancements of a historic waterfront park. PH 1 includes re-location of the main park roadway, pedestrian & bicycle circulations, new dog parks, racquetball facility, and, landscape improvements.

SR 997 - Krome Avenue - from South of SW 184th Street to South of SW 136th Street, 2016-current, Miami-Dade County, FL. Role: Project Manager and Landscape Architect/Designer. Tree Disposition of approximately 800 trees

FDOT Tiger Grant - 8th Street Pedestrian Bridge for FIU and the City of Sweetwater, 2014, Miami-Dade County, FL. Role: Project Manager and Landscape Architect/Designer. Following the criteria of 'complete streets', the scope of the work included conceptual and schematic designs of streetscapes, pedestrian walkways, plaza and bike paths in a 7 acre site located along 8th Street, within FIU and Sweetwater

FDOT - Alligator Alley Rest Area Landscape Maintenance Guidelines, 2016, SR I-75, Mile Marker 30, Broward County, Florida. Role: Project Principal. The guidelines were created as a directive for D4's Inspectors and as a requirement for Landscape Maintenance Contractors, in the landscape maintenance work of the 5-acre Alligator Alley Rest Area. It is also a model of future maintenance manuals for FDOT D4.

SR 836 Bike Path - developed between NW 87th Ave. and NW 97th Ave., 2010, Miami-Dade County, FL. Role: Project Manager and Designer. Landscape design, construction documentation and construction follow-up of a two-mile bike path project, focused on the creation of native pinelands and accent areas of palm groves.

SR 836 Welcome Sign and Gateway – located between NW 87th Ave. and NW 97th Ave, 2009, Miami-Dade County, FL. Role: Project Manager and Designer. This 50-acre landscape design and construction documentation project was considered one of the main gateways to the MDX highway systems and to Miami-Dade County.



FERNANDEZ-BERAUD INC.
Landscape Architecture
and Planning

Professional License

Florida Registered Landscape Architect LA 6666730 (2003)

Academic Background:
Master of Landscape Architecture, Ball State University, 1992.

Master of Architecture, Ball State University, 1991.

Bachelor of Architecture, School of Science & Technology, Catholic University, Asuncion, Paraguay, 1988.

Memberships and Certifications:

APA, American Planning Association, member.

CPTED, Crime Prevention Through Environmental Design (CPTED Practitioner Certification), 2011.

ISA, International Society of Arborist, member.

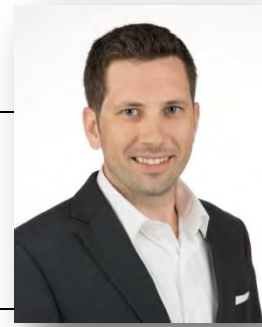
Employment:

Fernandez-Beraud Inc.
April 2004 to present.

Role: Principal, Landscape Architect, Project Manager and Designer.

JEFFREY P. THOMPSON, P.E.,

PRESIDENT



EDUCATION

B.S. – Environmental Engineering, *summa cum laude*, from Wentworth Institute of Technology, Boston, Massachusetts

PROFESSIONAL LICENSES

Registered Professional Engineer, Florida No. 69239

PROFESSIONAL EXPERIENCE

Jeff began his career in environmental and civil engineering has over 15 years ago. After working for a well-know environmental and civil engineering firm in Miami for 12 years, Jeff founded Miami Environmental & Civil Engineering, LLC. He has managed and served as the engineer of record on a wide variety of environmental and civil engineering projects of all sizes, including solid waste management, site civil development, and environmental site assessment and remediation projects. He has worked with private and public sector clients including commercial and residential developers, government agencies, architects and engineers, contractors, manufacturers, facility operators, and land management organizations.

Examples project experience includes the following:

Biscayne Landing, LLC, North Miami, Florida

Project Director and Engineer of Record for a 200-acre mixed use development project on a former landfill, providing environmental and civil engineering design including conceptual stormwater master planning for numerous master site plans, cut/fill mass grading planning, site assessment, lakefill permitting, site civil design (paving, grading and drainage, water and sewer) for, landfill gas management. Responsible for the associated permitting requirements with the South Florida Water Management District, DERM Water Control and Pollution Remediation Sections, the FDEP (Solid Waste Closure permitting), and local departments.

Beacon Countyline, Flagler Development Group, Miami, Florida

Lead Engineer responsible for the overall Landfill Closure Plan for the proposed 500-acre commercial development on a former construction and demolition (C&D) landfill including: coordination and review of overall stormwater management system for the final development; development of a comprehensive conceptual gas management plan for the site and the proposed buildings; coordination with regulatory agencies and various consultants and engineers engaged in the project, including DRI and wetland coordination; preparation of final landfill closure application including financial cost assurance, groundwater monitoring requirements, long term care, closure procedures, gas management, and waste relocation procedures.

Landfill Closure and Redevelopment Permitting and Design/Build, City of Homestead, Florida

Lead Engineer for the 32-acre former Homestead Landfill re-development project, mainly responsible for preparing the stormwater management design and stormwater modeling for the proposed park development. Also, prepared the detailed grading plan for the park, including park surface features (fields, courts, sidewalks, etc.). Also responsible for the design of the landfill gas mitigation components of the landfill closure design. Obtained approvals/permits from DERM's Water Control and Pollution Remediation Sections and the FDEP and construction certification.

Virginia Key Landfill, City of Miami, Florida

Lead Engineer responsible for the conceptual closure plan for the former landfill including a stormwater management system using drainage wells and dry retention areas, final grading and cover plan, groundwater remediation plan, and gas management plan. Coordination with various regulatory agencies and project stakeholders, including the Miami-Dade County Department of Solid Waste bond engineer in order to develop a schedule of values to be the basis of grant funding by the County to the City for the closure.

Munisport Landfill Comprehensive Landfill Closure Plan (CLCP), Miami-Dade County Dept. of Solid Waste Management, Florida

Project Engineer responsible for aiding in the third party review of the CLCP for the Munisport Landfill, especially related to the in-situ groundwater remediation system being implemented to remove ammonia contamination at the site. Activities included: an in depth file review, including the review of legal resolutions between the City of North Miami and the Miami-Dade DSWM, permit application and issued permits, and technical reports on the remediation system; and the development of a cost estimate for the full scale system.

LFG to Energy Plant Site Civil, Ingenco, North Dade Landfill, Florida

Project Manager/Engineer-of-Record. Responsible for the site civil design and coordination of architectural, structural, and mechanical/electrical/plumbing design for proposed a landfill gas (LFG) to energy facility on the Miami-Dade County Department of Solid Waste (DSWM) North Dade Landfill (NDLF). The proposed building was set upon an area of existing groundwater contamination and some waste material, which required a unconventional drainage design.

Title V Air Operations Permitting, Miami-Dade County Dept. of Solid Waste Management, Florida

Project Engineer. Responsible for providing support in preparing a Title V Air Operations Permit renewal application. Reviewed all relevant documents with regards to previous permit applications, utilized FDEP's online permit application process to access information, developed an emission source and control inventory, aided in emission calculations, and aided in the preparation of the final air permit application.

Remedial Alternatives Investigation, Waste Management, Medley, Florida

Project Engineer. Evaluated the effectiveness of prior remedial actions for ammonia-contaminated groundwater at the 200+ acre Class I Landfill. Reviewed the remedial action plan and historical analytical data and performed a trend analysis in order to assess whether fluctuations in contaminant concentrations were influenced by the operation of the facility, natural features, or environmental conditions. Provided client with opinion of the plausible alternatives for the site.

RELEVANT EXPERIENCE



PAST (5) YEARS RELEVANT EXPERIENCE

Over the years, in our role as engineers, architects, planners, and scientists, the firm has engaged in a diversity of municipal and county projects involving complete engineering, architectural, and environmental services. The firm has met the challenge of more than 1,800 major projects ranging in size from several thousand dollars to multi-million dollar projects. TYLI is a proven leader in professional engineering and construction services for new and improvement projects for county and municipal facilities throughout South Florida, including Local Agency Program (LAP) agreements, and compliance and auditing of federally funded projects. The firm's extensive experience in LAP and federal funded projects is shown on Pg. 15 of this section.

We believe the key element to interfacing with our clients is to promote positive working relationships with all relevant parties and stakeholders, and help effectively coordinate tasks, eliminate problems and misunderstandings, and avoid delays.

We understand the needs of local governments and will continue to work with the City of Key West to assure successful projects from this contract. TYLI is fortunate to have a growing list of municipal and county agencies as our core and repeat clients and we look forward to continuing to have City of Key West on that list.

Illustrated below are some of the South Florida municipal clients for whom the firm has provided professional engineering services similar in scope and size to the anticipate projects for the City of Key West.



City of Fort Lauderdale



MONROE COUNTY - GENERAL ENGINEERING SERVICES (2012- ONGOING)

Stock Island Roadway and Drainage Improvements

- This project includes the design, permitting and bidding assistance of the repair, reconstruction, and retrofit to current standards of nearly 2 miles of roadway through Stock Island. The work includes raising roadway elevations to begin addressing Sea Level Rise and adds pedestrian connectivity throughout the island along with drainage and lighting upgrades.

Blimp Road Boat Ramp Improvements

- This project includes the design, permitting and bidding assistance of the repair and extension of an existing boat ramp along Blimp Road.

Grouper Lane Drainage and Roadway Improvements

- This project includes the design, permitting, and construction administration of critical drainage improvements at this Key Largo location.

Stock Island 9th Avenue Drainage and Roadway Improvements

- This project includes the design, permitting, and construction administration of critical drainage improvements at this Stock Island location.

Stock Island Correctional Facility HVAC Improvements

- This project includes the design, permitting assistance, and construction administration of improvements to this County facility on Stock Island.

Client: Monroe County

Design Service Fees: \$500k

Contact: Judith Clark, PE - (305) 294-4329

Project Cost: \$5M

MONROE COUNTY – RELOCATION OF ATLANTIC BLVD AT HIGG’S BEACH (2014 - ONGOING)

This project includes the design, permitting and bidding assistance of the relocation of Atlantic Boulevard across Higg’s Beach to implement the Masterplan previously developed for the Park. The work entails a complete redesign of the park including a new roadways with higher elevation, new parking lots and walkways, relocation of the dog parks, all landscape, hardscape, and lighting, as well as the associated drainage improvements.

Client: Monroe County

Design Service Fees: \$500k

Contact: Ray Sanders - (305) 295-4337

Project Cost: \$5M

DISTRICTWIDE ROADWAY DESIGN SERVICES (2007 - 2012)

The firm was retained to provide general engineering services for roadway projects requiring a quick response. Services include roadway engineering, drainage design, miscellaneous structures design, traffic and environmental engineering and post-design services. Task orders included:

US 1/SR 5 / Overseas Highway from MM 93 to MM 97

- Provided design and post-design services for this resurfacing, restoration, and rehabilitation (RRR) project. The scope included milling and resurfacing, minor reconstruction, gravity walls, signing and pavement markings, drainage, and design of a shared use path.

US 1/SR 5 / Overseas Highway from MM 103 to MM 106

- Provided design and post-design services for the RRR project referenced above. The scope included milling and resurfacing, minor reconstruction, gravity walls, signing and pavement markings, drainage, and design of a shared use path.

SW 107th Avenue From SW 72nd St to SW 104th St

- Provided design and post design services for the RRR project referenced above. The scope included milling and resurfacing, spot drainage improvements, access management, ADA upgrades and replacement of sidewalk and curb and gutter on an as-needed basis.

Client: Florida Department of Transportation District Six

Design Service Fees: \$500k

Contact: Chris Tavella, PE - (305) 470-5103

Project Cost: \$5M

CITY OF MIAMI - GENERAL ENGINEERING SERVICES (2002 - ONGOING)

TYLI has maintained this ongoing GEC contract for the City of Miami including Coastal and Environmental services for over 15 years, projects include:

- Lummus Park Improvements
- Bayfront Park Electrical Improvements
- Mary Brickell Village Drainage and Roadway Improvements Project
- NW 8th and 14th Court Roadway and Drainage Improvements
- SW 16th Ave, 17th Street, and 17th Terrace Roadway Improvements
- Dinner Key Marina Harbormaster Trailer
- Dinner Key Marina Dinghy Dock
- Dinner Key marina sailing facility
- Legion Park Boat Ramp
- Virginia Key Weigh Station Project
- Annual FEMA PDM Application Preparation
- Durham Terrace Drainage Improvements Project
- Fairlawn Phase III and Tamiami Storm Sewer Improvements Project Master Plan Improvements
- Fueling Dock: Dinner Key Marina

Some of the major projects undertaken as part of this contract include the following:

Flagami-West End-Fairlawn Storm Sewer Improvements (\$20M)

- As part of the Flagami-West End-Fairlawn Storm Sewer Improvements, T.Y. Lin International provided the design of two Duplex and three Triplex submersible pump stations including computer model study, permitting with DERM & SFWMD and design of over 30,000 linear ft of storm sewers and French Drains.

Overtown Greenway (\$3M)

- The firm was responsible for the complete reconstruction of NW 11th Terrace adjacent to Booker T. Washington High and Fredrick Douglas Elementary. The project included the full conversion from a blighted two-lane service road to a beautiful single lane pedestrian and cyclist oriented greenway with high-end hardscape, landscape, lighting, and site furnishings. Full roadway reconstruction and drainage modifications were required to complete the work. Due to location of the project extensive coordination with FDOT, MDCPS, MDC, MDT, CRA, DERM, and community stakeholders was required.

NW 14th Street Roadway Improvements (\$3M)

- The project encompassed the complete pavement restoration of 1-mile of a 4-lane roadway throughout the City's bustling health district, as well as safety and ADA improvements, new signage, new medians, new landscaping, drainage modifications, and traffic signal coordination.

Coral Gate Roadway & Wall Improvements (\$2M)

- Prime consultant for the removal of the existing wall and its corresponding foundation along SW 16th Street and SW 32nd Avenue roads and the construction of a new 10 foot precast concrete wall. In addition, ADA improvements, street milling and resurfacing, installation of ADA compliant ramps, replacement of damaged sidewalks, curb and gutter repair, driveway approaches repair, striping and landscaping beautification.

Client: City of Miami

Design Service Fees: \$5M

Contact: Jose Lago, PE - (305) 416-1252

Project Cost: \$40M

SOUTH MIAMI GENERAL ENGINEERING CONSULTANT (2010 - ONGOING)

The firm was retained to provide general engineering services in order to fulfill specialized quick response tasks for the City of South Miami. Services included; roadway engineering, drainage design, civil engineering, traffic and environmental engineering and construction services. Some of the tasks included:

Water Main Extension Area 1 and 2 (\$1.0M)

- Provided design and final construction plans, technical specifications, permitting, bidding assistance and construction administration services for over 8000lf of water mains.

Citywide Drainage Improvements Phase IV (SW 58th Avenue and SW 74th Terrace) (\$500k)

- Provided design and final construction plans, technical specifications, permitting, bidding assistance and construction administration services.

SW 67th Avenue & SW 64th Street (\$200k)

- Provided roadway engineering design and final construction plans, technical specifications, permitting, bidding assistance and construction administration services.

SW 66th Street Improvements (\$750k)

- Roadway engineering design and final construction plans, technical specifications, permitting, bidding assistance and construction administration services.

Church Street Phase 2, 3 and 4 (\$500k)

- Roadway engineering design and final construction plans, technical specifications, permitting, bidding assistance and construction administration services.

City of South Miami – Environmental Site Assessment (\$100k)

- Assessment to confirm the absence of soil and groundwater contamination due to historic discharges at Murray Park located at 6700 SW 58 Place.

Client: City of South Miami

Design Service Fees: \$750k

Contact: Grizel Martinez - (305) 403-2063

Project Cost: %5M

CITY OF WEST MIAMI - GENERAL ENGINEERING SERVICES - (2002 - ONGOING)

Citywide Drainage Improvements Phases I-IV

- The firm modeled the storm drainage system for the City and designed the individual stormwater systems to drain the areas that flooded during the “No Name Storm” of October 2000. The firm assisted the City in providing public involvement services and in obtaining cost estimates for the purpose of securing funds from FEMA to upgrade pump stations. The firm designed 2 pump stations to provide discharge into the C-3 and C-4 Canals due to insufficient gravity flow available. Additionally, the firm provided coordination with permit agencies. Funding from both FEMA and SFWMD for the modeling and design was secured for the design and construction of Phases I-IV.

Traffic Calming - ARRA

- The project consisted of two traffic calming devices to be located at the intersections of SW 64th Avenue and SW 22nd Street, SW 64th Avenue and SW 18th Street. On this particular project, the firm provided compliance reporting services on behalf of the City of West Miami.

West Miami Recreational Facility

- T.Y. Lin International provided the civil, structural and MEP engineering for a new 5000sf park recreational facility within the City of West Miami.

City Hall Remodeling

- The firm was responsible for the remodeling and addition design for the City Hall, including a new exterior CBS wall for an office which was formerly a fire station.

Client: City of West Miami

Design Service Fees: \$2M

Contact: Juan Peña - (305) 266-4214

Project Cost: \$20M

DISTRICTWIDE TRAFFIC OPERATIONS AND SAFETY STUDIES (2012 - ONGOING)

The firm has a two-year contract with the Florida Department of Transportation to provide professional traffic engineering services. The services include the development of various traffic operations studies that will be basis for short term capital improvement projects for intersections, arterials, etc. in Miami-Dade and Monroe Counties in Florida.

The specific objective of this contract is to provide traffic engineering reports/studies that will identify and evaluate/analyze the problem(s), and recommend appropriate solutions(s) based on an analysis of the cost effectiveness of each of the recommended improvements.

In addition, the services will include highway safety studies/reports that identify and quantify safety problems, develop cost-effective countermeasures, and recommend appropriate solutions. The locations that may be studied include high crash spot/segment locations or other Districtwide locations where safety concerns have been identified.

Client: Florida Department of Transportation District Six

Design Service Fees: \$2M

Contact: Khalil Maarouf - (305) 470.5335

Project Cost: N/A (studies)

Body Text.

PROJECT APPROACH



PROJECT APPROACH AND MANAGEMENT

TYLI has established an impressive track record not only with project specific work scopes but also with general engineering and miscellaneous contracts. **TYLI** has successfully completed contracts for many municipal clients involving site development, transportation engineering, building engineering, plans review, ADA compliance, storm water drainage improvements, traffic engineering, environmental mitigation and permitting, and construction management services.

DESIGN APPROACH

TYLI understands that the vast majority of municipal infrastructure projects are driven by a recognized need to improve the public's level of service due to natural disasters (e.g. hurricanes and flooding), land use changes, changes in traffic patterns, population growth, infrastructure deterioration, or other related causes. Recognizing this, **TYLI's** design philosophy for municipal engineering projects focuses on early identification of key project stakeholders, and then working with and incorporating feedback from the stakeholders throughout the design process. During the initial planning stages of a project, this philosophy is often implemented by conducting design charrettes, where a wide range of stakeholders representing both technical and non-technical project disciplines meet, brainstorm and share ideas in order to identify key project issues and establish sound planning fundamentals for the project.

After the initial planning effort, **TYLI** moves forward with project execution paying particular attention to coordination with the applicable regulatory agencies (SFWMD, FDOT, FDEP, USACE, EPA, FCAA, etc.) design standards and permit requirements. The firm has recently completed design on several large infrastructure municipal improvement projects, and as such has established strong working relationships with regulatory staff, which helps to reduce the overall time required for obtaining critical project permits. In addition, **TYLI** typically leads ongoing public information workshops for larger infrastructure projects, in order to assure that the public is aware of upcoming neighbor construction, and the long term benefits that such projects provide.

During construction, attention to the impact of public works projects on City residents as construction progresses is a primary concern. **TYLI** proactively addresses this concern by providing "public friendly" field staff and/or "complaint coordinators" to insure that inconveniences to the public (dust, debris, access obstruction, incidental damage, etc.) which typically occur during construction are minimized, and addressed promptly before such matters are elevated to City staff or elected officials.

TYLI attributes its corporate longevity and success in the municipal engineering field to the unique ability of our technical staff to combine engineering expertise and sound judgment with recognition of the importance of ongoing stakeholder involvement and public awareness in municipal engineering projects.

Recognition and execution of this design philosophy has repeatedly resulted in successful completion of municipal projects on time and on budget, jointly benefiting our Clients, our employees and **TYLI**.

AGENCY COORDINATION AND PERMITTING

Coordination with all regulatory agencies will be essential to meeting project needs. Several regulatory agencies may be involved in the permitting and approval of the various project assignments. It is essential to get the applicable agencies on board early on in the process and keep them informed throughout the process. This allows issues to be identified and addressed quickly and effectively. Therefore, early and consistent regulatory coordination would be essential to streamlining the approval process and successfully completing assigned projects within appropriate timeframes.

TYLI's professionals have vast experience in civil / infrastructure improvements requiring permitting for pollution prevention, drainage, environmental impacts, and utility relocation. **TYLI's** staff has performed permitting services throughout South Florida. Consequently, **TYLI** staff is well respected among the regulatory community and has an excellent rapport with representatives from agencies such as the FDOT, SFWMD, USACE, NMFS, FKNMS, and FDEP.

TYLI understands that construction projects are time sensitive and a time delay can result in a significant cost for contractors. As part of development projects and design build teams, **TYLI** has frequently been called upon to provide fast track services. For example, as part of a design build team for

The City of North Miami, **TYLI** designed, permitted, and constructed 22 seawalls in less than one year. This included performing biological assessments, developing compensatory mitigation, and securing environmental permits from all regulatory agencies.

MANAGEMENT APPROACH

At **TYLI** quality control is a process that is implemented and carried out continuously throughout the development of all our projects. This process provides assurance to the City of our commitment to the highest level of quality for the execution of any assignment. The process will be managed by our team's Quality Control Officer Rick Waters .

After the team kick-off meeting and assignment distribution, six (6) key project controls will be set in motion, as illustrated in the adjacent figure. Our experience has shown that these controls are vital to the success of any project. Our project manager, **Francisco Alonso, PE**, will be responsible for monitoring these six elements and assuring that the project controls are carried throughout the life of each project.

In 2009, the firm was awarded ISO 9001 certification. This further validates the firm's commitment to proactively and continuously strive for quality improvements.

SERVICES PROVIDED

TYLI will serve as a “one-stop-shop resource of professional services” for the City of Key West. We are proud of our local workforce and are firmly committed to providing the City with project excellence. The TYLI team has the in-house capabilities to provide all of the major services outlined in Scope of Work section of the RFQ. TYLI has the in-house resources to provide planning, preliminary and final design, construction documents, permitting, management services, preparation of bid and proposal documents, cost estimates, and close-out documents for the following services:

TRANSPORTATION ENGINEERING

- Roadway Design
- Streetscapes
- Traffic Engineering
- Traffic Studies
- Traffic Calming
- Signal Timing
- Signing and Pavement Markings
- Maintenance of Traffic
- Data Collection
- Construction Management
- Construction Inspections
- Value Engineering

STORMWATER AND DRAINAGE ENGINEERING

- Stormwater Master Plans
- Drainage Studies
- Stormwater Modeling
- Water mains
- Pump Stations
- Exfiltration Trenches
- Gravity Lines and Force Mains
- Storm Sewer Collection Systems
- Hydrological Studies
- SWPPP/Erosion Control
- Construction Management
- Construction Inspections
- Value Engineering

ENVIRONMENTAL ENGINEERING

- Environmental Permit Coordination and Compliance
- Phase I and II Environmental Assessments
- Environmental Impact Studies
- Storage Tank Compliance Issues
- Water Quality Analysis
- Contamination Remediation
- Environmental Sampling
- Wetland Delineation and permitting
- Wetland Mitigation Design and monitoring
- Threatened and Endangered Species Studies
- Biological Monitoring
- Air/Water Quality Studies
- Stormwater Management Inspections

STRUCTURAL ENGINEERING

- Public Facilities
- Recreational Facilities
- Bridge Designs
- Pedestrian Bridges
- Docks
- Seawalls
- Mast-Arms
- Sign Structures
- Utility Structures
- Foundations
- Value Engineering

GENERAL CIVIL ENGINEERING

- Parking Lot Design
- Site Development
- Solid Waste Design and Permitting
- Pedestrian Facilities
- Utilities
- Recreational Facilities
- Maintenance of Traffic

- Construction Management
- Construction Inspection
- Value Engineering

AVIATION SERVICES

- Airside Infrastructure
- Runways
- Taxiways
- Aircraft Parking Aprons
- Airfield Lighting
- Automated People Movers
- Aircraft Fueling Systems
- Air Traffic Control Towers
- NAVAIDs

LANDSIDE INFRASTRUCTURE

- Access Roadways
- Security Gates
- Pedestrian Bridges
- Parking Garages
- Transit Access
- People Movers

MECHANICAL ENGINEERING

- Complete Facility Renovation
- HVAC Systems
- Fueling Systems
- Power and Lighting Systems
- Emergency Generators (backup system)
- Communications and Special Systems
- Life Safety Systems and Master Plans
- 40-year Certifications
- Fire Protection Systems
- Plumbing Systems Design
- Site Infrastructure Development
- Value Engineering
- Construction Inspection

- Energy Optimization Services
- Value Engineering

ELECTRICAL ENGINEERING

- 40-year Electrical Certifications
- Interior Lighting Design
- Exterior Lighting
- Roadway Lighting
- Ornamental Lighting
- Photometric Studies

LANDSCAPE ARCHITECTURE

- Scoping
- Planting
- Hardscape Design
- Irrigation Design
- Post Design Services

FORMS AND LICENSES

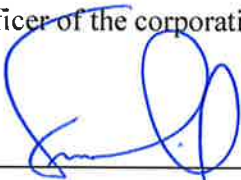


T.Y. Lin International

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: 
Francisco Alonso, PE, Associate Vice President

Sworn and subscribed before me this

18 day of April, 2017.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: Aug. 9, 2018



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

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Bid or Contract No. 17-002 for General Engineering Services

2. This sworn statement is submitted by T.Y. Lin International
(Name of entity submitting sworn statement)

whose business address is 201 Alhambra Circle, Suite 900, Coral Gables, FL 33134
_____ and (if applicable) its Federal
Employer Identification Number (FEIN) is 94-1598707 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is Francisco Alonso, PE and my relationship to
(Please print name of individual signing)

the entity named above is Associate Vice President.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
 1. A predecessor or successor of a person convicted of a public entity crime: or
 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

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

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

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

(Signature)

(Date) 04-18-2017

STATE OF Florida

COUNTY OF Miami-Dade

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Francisco Alonso

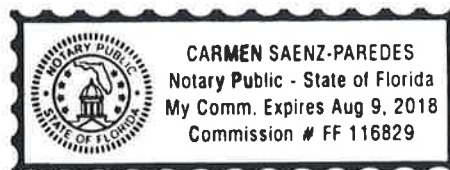
(Name of individual signing)

who, after first being sworn by me, affixed his/her signature in the

space provided above on this 18 day of April, 2017.

My commission expires: Aug. 9, 2018
NOTARY PUBLIC

Francisco Alonso



INDEMNIFICATION

To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONSULTANT under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR: T.Y. Lin International

SEAL:



201 Alhambra Circle, Suite 900, Coral Glabes, FL 33134
Address


Signature

Francisco Alosno, PE
Print Name


Associate Vice President
Title

4/18/2017
Date

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF Florida)
: SS
COUNTY OF Miami-Dade)

I, the undersigned hereby duly sworn, depose and say that the firm of
T.Y. Lin International provides benefits to domestic partners of its employees on the same
basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: 
Francisco Alonso, PE, Associate Vice President

Sworn and subscribed before me this

18 day of April, 2017


NOTARY PUBLIC, State of Florida at Large

My Commission Expires: Aug. 9, 2018



CONE OF SILENCE AFFIDAVIT

STATE OF Florida)
 : SS
COUNTY OF Miami-Dade)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of T.Y. Lin International have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).




(signature) Francisco Alonso, PE, Associate Vice President
04-18-2017

(date)

Sworn and subscribed before me this

18 Day of April, 2017



NOTARY PUBLIC, State of Florida at Large

My Commission Expires: Aug. 9, 2018



State of Florida

Department of State

I certify from the records of this office that T.Y. LIN INTERNATIONAL is a California corporation authorized to transact business in the State of Florida, qualified on June 12, 1975.

The document number of this corporation is 834521.

I further certify that said corporation has paid all fees due this office through December 31, 2017, that its most recent annual report/uniform business report was filed on February 9, 2017, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Fifth day of April, 2017*

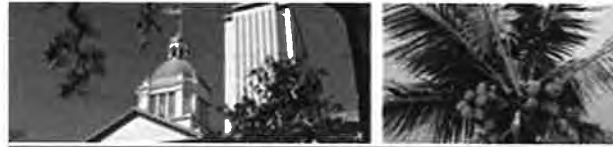


Ken DeFoner
Secretary of State

Tracking Number: CU7471826467

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

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



License Menu

Select the function you wish to perform.
Press "Back" to return to the main menu.

License Issued To:	T. Y. LIN INTERNATIONAL
License Status:	Current
Originally Licensed On:	05/10/1977 (mm/dd/yyyy)
Expires On:	02/28/2019 (mm/dd/yyyy)
Modifiers:	Corporation 05/10/1977 (mm/dd/yyyy)

Functions

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Back



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JIM BOXOLD
SECRETARY

July 22, 2016

James Moreno, Senior Vice President
T.Y. LIN INTERNATIONAL
201 Alhambra Circle, Suite 900
Coral Gables, Florida 33134

Dear Mr. Moreno:

The Florida Department of Transportation has reviewed your application for qualification package and determined that the data submitted is adequate to technically qualify your firm for the following types of work:

Group 2 - Project Development and Environmental (PD&E) Studies

Group 3 - Highway Design - Roadway

- 3.1 - Minor Highway Design
- 3.2 - Major Highway Design
- 3.3 - Controlled Access Highway Design

Group 4 - Highway Design - Bridges

- 4.1.1 - Miscellaneous Structures
- 4.1.2 - Minor Bridge Design
- 4.2.1 - Major Bridge Design - Concrete
- 4.2.2 - Major Bridge Design - Steel
- 4.2.3 - Major Bridge Design - Segmental
- 4.3.1 - Complex Bridge Design - Concrete
- 4.3.2 - Complex Bridge Design - Steel

Group 5 - Bridge Inspection

- 5.1 - Conventional Bridge Inspection
- 5.3 - Complex Bridge Inspection
- 5.4 - Bridge Load Rating

Group 6 - Traffic Engineering and Operations Studies

- 6.1 - Traffic Engineering Studies

Group 7 - Traffic Operations Design

- 7.1 - Signing, Pavement Marking and Channelization
- 7.2 - Lighting
- 7.3 - Signalization

- Group 10 - Construction Engineering Inspection
 - 10.1 - Roadway Construction Engineering Inspection
 - 10.4 - Minor Bridge & Miscellaneous Structures CEI
- Group 11 - Engineering Contract Administration and Management
- Group 13 - Planning
 - 13.4 - Systems Planning
 - 13.5 - Subarea/Corridor Planning
 - 13.6 - Land Planning/Engineering
 - 13.7 - Transportation Statistics
- Group 14 - Architect
- Group 15 - Landscape Architect

Your overhead audit has been accepted, enabling your firm to compete for Professional Services projects advertised at the unlimited level, with estimated fees of any dollar amount. This status shall be valid until June 30, 2017 for contracting purposes.

	<u>Home/Branch Office</u>	<u>Field Office</u>	<u>Facilities Capital Cost of Money</u>	<u>Overtime Premium</u>	<u>Direct Expense</u>
Indirect Cost	156.84%	120.26%	0.238%	Excluded	6.25% (Home) 10.96% (Field)*

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,



Carliayn Kell
Professional Services
Qualification Administrator



U.S. Green Building Council

HEREBY CERTIFIES THAT

Ahmad Hammoud

HAS ACHIEVED THE DESIGNATION OF

LEED[®] ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE
REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY
AND ENVIRONMENTAL DESIGN (LEED[®]) GREEN BUILDING RATING SYSTEM[™].

Chairman

Date Issued
June 23, 2007

S. Richard Fedrizzi, President, CEO and Founding Chairman

GCME

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

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Bid or Contract No. 17-002 for

2. This sworn statement is submitted by G CME, Inc.
(Name of entity submitting sworn statement)
whose business address is 1730 W. 10th ST. RIVIERA BEACH,
FL-33404 and (if applicable) its Federal
Employer Identification Number (FEIN) is 65-1140436 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is PARTHA GHOSH and my relationship to
(Please print name of individual signing)
the entity named above is PRESIDENT.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means

1. A predecessor or successor of a person convicted of a public entity crime: or
2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

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

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

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

(Signature)

(Date)

[Handwritten Signature]
4/18/17

STATE OF FLORIDA

COUNTY OF PALM BEACH

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

PARTHA GHOSH

(Name of individual signing)

who, after first being sworn by me, affixed his/her signature in the

space provided above on this 18th day of APRIL, 20 17

My commission expires:
NOTARY PUBLIC

[Handwritten Signature] ELIZABETH M. BLONDIN
1/9/18



ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF ~~MONROE~~)
 PALM BEACH

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: *[Signature]*
(**PARTHA CHANDRA**)

Sworn and subscribed before me this

18th day of APRIL, 2017.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 1/9/18

[Signature]



EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF PAUM BEACH)

I, the undersigned hereby duly sworn, depose and say that the firm of Gene, Inc.
provides benefits to domestic partners of its employees on the same
basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: [Signature]
(PATRICIA LITTON)

Sworn and subscribed before me this

18th day of APRIL, 2017.

[Signature]
NOTARY PUBLIC, State of FLORIDA at Large



My Commission Expires: 1/9/18

CONE OF SILENCE AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF PALM BEACH)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of GCME, Inc. have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

[Signature]
(signature)
4/18/17
(date)

Sworn and subscribed before me this

18th Day of April, 2017

[Signature]
NOTARY PUBLIC, State of FLORIDA at Large



My Commission Expires: 1/9/18

INDEMNIFICATION


To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONSULTANT under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR: GCME, Inc. SEAL: _____

1720 W. 10TH STREET, RIVIERA BEACH, FL-33404

Address _____



Signature _____

PARTHA GHOSH


Print Name _____

PRESIDENT

Title _____

APRIL 18, 2017.

Date _____



State of Florida

Minority, Women & Florida Veteran Business Certification

GCME, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

10/30/2015 to 10/30/2017



A handwritten signature in black ink, appearing to read 'CP', positioned above a horizontal line.

Chad Poppell, Secretary
Florida Department of Management Services



State of Florida

Board of Professional Engineers

Attests that
GCME, Inc.



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019

Audit No: 228201903159 R

CA Lic. No:

9076

Cummins | Cederberg

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: *J. Lederberg*
Jannek Lederberg, President

Sworn and subscribed before me this

10th day of April, 2017.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 2/19/2020



INDEMNIFICATION

To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONSULTANT under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR: Cummins Cederberg, Inc. SEAL:

7550 Red Road, South Miami, FL 33190
Address


Signature

Jannek Cederberg
Print Name

President
Title

4/6/2017
Date

CONE OF SILENCE AFFIDAVIT

STATE OF Florida)
: SS
COUNTY OF Monroe)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of Cummins Cederberg, Inc have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

J. Guiding
(signature)
4/6/2017
(date)

Sworn and subscribed before me this

6th Day of April, 2017

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 2/9/2020



EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF Florida)
 : SS
COUNTY OF Monroe)

I, the undersigned hereby duly sworn, depose and say that the firm of Cummins Cederberg, Inc. provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: 

Sworn and subscribed before me this
6th day of April, 2017.



NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 2/9/2020

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

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE
AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted with Bid, Bid or Contract No. RFQ# 17-002 for
General Engineering Services

2. This sworn statement is submitted by Cummins Cederberg, Inc
(Name of entity submitting sworn statement)
whose business address is 7550 Red Rd, #217, South Miami
FL 33190 and (if applicable) its Federal
Employer Identification Number (FEIN) is 27-2129033 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is Jannek Cederberg and my relationship to
(Please print name of individual signing)
the entity named above is President.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
 1. A predecessor or successor of a person convicted of a public entity crime: or
 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

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

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

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

J. C. [Signature]
4/6/2017

(Signature)

(Date)

STATE OF Florida

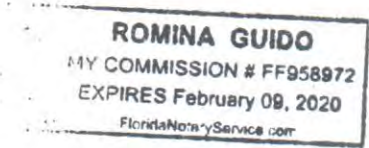
COUNTY OF Monroe

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

(Name of individual signing) _____ who, after first being sworn by me, affixed his/her signature in the

space provided above on this 6th day of April, 2017.

My commission expires: 2/9/2020
NOTARY PUBLIC

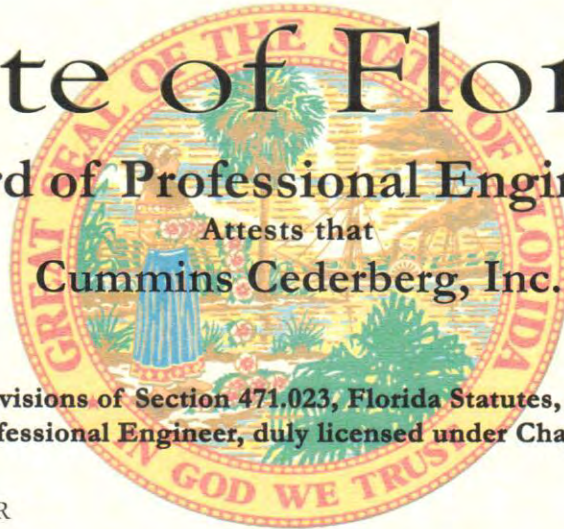


State of Florida

Board of Professional Engineers

Attests that

Cummins Cederberg, Inc.



Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019

Audit No: 228201902897 R

CA Lic. No:

29062

Aviño & Associates, Inc

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF ~~MONROE~~)
 MIAMI-DADE


I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: 

JORGE R. AVINO

Sworn and subscribed before me this

_____ 17th _____ day of _____ April _____, 20 17.

NOBEL VALENCIA 
NOTARY PUBLIC, State of Florida at Large



NOBEL VALENCIA
MY COMMISSION # FF 121134
EXPIRES: May 8, 2018
Bonded Thru Budget Notary Services

My Commission Expires: _____ May 8, 2018 _____

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

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE
AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted with Bid, Bid or Contract No. RFQ No. 17-002 for
GENERAL ENGINEERING SERVICES

2. This sworn statement is submitted by AVINO & ASSOCIATES, INC.
(Name of entity submitting sworn statement)
whose business address is 1350 SW 57th AVENUE, SUITE 207, WEST MIAMI, FL 33144
_____ and (if applicable) its Federal
Employer Identification Number (FEIN) is 65-0053775 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is JORGE R. AVINO and my relationship to
(Please print name of individual signing)
the entity named above is PRESIDENT.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
 1. A predecessor or successor of a person convicted of a public entity crime: or
 2. An entity under the control of any natural person who is active in the management of t entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

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

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

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

(Signature)



(Date) April 17, 2017

STATE OF FLORIDA

COUNTY OF MIAMI-DADE

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

JORGE R. AVINO
(Name of individual signing)

who, after first being sworn by me, affixed his/her signature in the

space provided above on this 17th day of April, 2017.

My commission expires:
NOTARY PUBLIC



NOBEL VALENCIA
MY COMMISSION # FF 121134
EXPIRES: May 8, 2018
Bonded Thru Budget Notary Services

INDEMNIFICATION

To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONSULTANT under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR: AVINO & ASSOCIATES, INC.

SEAL:

1350 SW 57th AVENUE, SUITE 207
WEST MIAMI, FL 33144

Address

Signature

JORGE R. AVINO

Print Name

PRESIDENT

Title

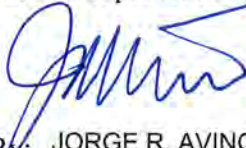
APRIL 17, 2017

Date

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

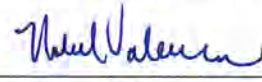
STATE OF FLORIDA)
: SS
COUNTY OF MIAMI-DADE)

I, the undersigned hereby duly sworn, depose and say that the firm of AVINO & ASSOCIATES, INC. provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.


By: JORGE R. AVINO, PRESIDENT

Sworn and subscribed before me this

17th day of April, 2017.

NOBEL VALENCIA 
NOTARY PUBLIC, State of FLORIDA at Large



NOBEL VALENCIA
MY COMMISSION # FF 121134
EXPIRES: May 8, 2018
Bonded Thru Budget Notary Services

My Commission Expires: May 8, 2018

City Ordinance Sec. 2-799

Requirements for City Contractors to Provide Equal Benefits for Domestic Partners

(a) Definitions. For purposes of this section only, the following definitions shall apply:

- (1) **Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package: sick leave, bereavement leave, family medical leave, and health benefits.
- (2) **Bid** shall mean a competitive bid procedure established by the city through the issuance of an invitation to bid, request for proposals, request for qualifications, or request for letters of interest.
- (3) **Cash equivalent** means the amount of money paid to an employee with a domestic partner in lieu of providing benefits to the employee's domestic partner. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse.

The cash equivalents of the following benefits apply:

- a. For bereavement leave, cash payment for the number of days that would be allowed as paid time off for the death of a spouse. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
 - b. For health benefits, the cost to the contractor of the contractor's share of the single monthly premiums that are being paid for the domestic partner employee, to be paid on a regular basis while the domestic partner employee maintains such insurance in force for himself or herself.
 - c. For family medical leave, cash payment for the number of days that would be allowed as time off for an employee to care for a spouse who has a serious health condition. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- (4) **Contract** means any written agreement, purchase order, standing order or similar instrument entered into pursuant to the award of a bid whereby the city is committed to expend or does expend funds in return for work, labor, professional services, consulting services, supplies, equipment, materials, construction, construction related services or any combination of the foregoing.
 - (5) **Contractor** means any person or persons, sole proprietorship, partnership, joint venture, corporation, or other form of doing business, that is awarded a bid and enters into a covered contract with the city, and which maintains five (5) or more full-time employees.
 - (6) **Covered contract** means a contract between the city and a contractor awarded subsequent to the date when this section becomes effective valued at over twenty thousand dollars (\$20,000).

- (7) **Domestic partner** shall mean any two adults of the same or different sex, who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained by the employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partner who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Key West pursuant to Chapter 38, Article V of the Key West Code of Ordinances.
- (8) **Equal benefits** mean the equality of benefits between employees with spouses and employees with domestic partners, and/or between spouses of employees and domestic partners of employees.

(b) Equal benefits requirements.

- (1) Except where otherwise exempt or prohibited by law, a Contractor awarded a covered contract pursuant to a bid process shall provide benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses.
- (2) All bid requests for covered contracts which are issued on or after the effective date of this section shall include the requirement to provide equal benefits in the procurement specifications in accordance with this section.
- (3) The city shall not enter into any covered contract unless the contractor certifies that such contractor does not discriminate in the provision of benefits between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees.
- (4) Such certification shall be in writing and shall be signed by an authorized officer of the contractor and delivered, along with a description of the contractor's employee benefits plan, to the city's procurement director prior to entering into such covered contract.
- (5) The city manager or his/her designee shall reject a contractor's certification of compliance if he/she determines that such contractor discriminates in the provision of benefits or if the city manager or designee determines that the certification was created, or is being used for the purpose of evading the requirements of this section.
- (6) The contractor shall provide the city manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the city manager has received a complaint or has reason to believe the contractor may not be in compliance with the provisions of this section. This shall include but not be limited to providing the city manager or

his/her designee with certified copies of all of the contractor's records pertaining to its benefits policies and its employment policies and practices.

- (7) The contractor may not set up or use its contracting entity for the purpose of evading the requirements imposed by this section.
- (c) Mandatory contract provisions pertaining to equal benefits. Unless otherwise exempt, every covered contract shall contain language that obligates the contractor to comply with the applicable provisions of this section. The language shall include provisions for the following:
- (1) During the performance of the covered contract, the contractor certifies and represents that it will comply with this section.
 - (2) The failure of the contractor to comply with this section will be deemed to be a material breach of the covered contract.
 - (3) If the contractor fails to comply with this section, the city may terminate the covered contract and all monies due or to become due under the covered contract may be retained by the city. The city may also pursue any and all other remedies at law or in equity for any breach.
 - (4) If the city manager or his designee determines that a contractor has set up or used its contracting entity for the purpose of evading the requirements of this section, the city may terminate the covered contract.
- (d) Enforcement. If the contractor fails to comply with the provisions of this section:
- (1) The failure to comply may be deemed to be a material breach of the covered contract; or
 - (2) The city may terminate the covered contract; or
 - (3) Monies due or to become due under the covered contract may be retained by the city until compliance is achieved; or
 - (4) The city may also pursue any and all other remedies at law or in equity for any breach;
 - (5) Failure to comply with this section may also subject contractor to the procedures set forth in Division 5 of this article, entitled "Debarment of contractors from city work."
- (e) Exceptions and waivers.

The provisions of this section shall not apply where:


- (1) The contractor does not provide benefits to employees' spouses.
- (2) The contractor is a religious organization, association, society or any non-profit charitable or educational institution or organization operated, supervised or controlled by or in conjunction with a religious organization, association or society.
- (3) The contractor is a governmental entity.

- (4) The sale or lease of city property.
- (5) The provision of this section would violate grant requirement, the laws, rules or regulations of federal or state law (for example, The acquisition services procured pursuant to Chapter 287.055, Florida Statutes known as the "Consultants' Competitive Negotiation Act").
- (6) Provided that the contractor does not discriminate in the provision of benefits, a contractor may also comply with this section by providing an employee with the cash equivalent of such benefits, if the city manager or his/her designee determines that either:
 - a. The contractor has made a reasonable yet unsuccessful effort to provide equal benefits. The contractor shall provide the city manager or his/her designee with sufficient proof of such inability to provide such benefit or benefits which shall include the measures taken to provide such benefits or benefits and the cash equivalent proposed, along with its certificate of compliance, as is required under this section.
- (7) The city commission waives compliance of this section in the best interest of the city, including but not limited to the following circumstances:
 - a. The covered contract is necessary to respond to an emergency.
 - b. Where only one bid response is received.
 - c. Where more than one bid response is received, but the bids demonstrate that none of the bidders can comply with the requirements of this section.
- (f) City's authority to cancel contract. Nothing in this section shall be construed to limit the city's authority to cancel or terminate a contract, deny or withdraw approval to perform a subcontract or provide supplies, issue a non-responsibility finding, issue a non-responsiveness finding, deny a person or entity prequalification, or otherwise deny a person or entity city business.
- (g) Timing of application. This section shall be applicable only to covered contracts awarded pursuant to bids which are after the date when this section becomes effective.

CONE OF SILENCE AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF MIAMI-DADE)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of AVINO & ASSOCIATES, INC. have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).




(signature) April 17, 2017

(date)

Sworn and subscribed before me this

17th Day of April, 2017.

NOBEL VALENCIA 

NOTARY PUBLIC, State of FLORIDA at Large



NOBEL VALENCIA
MY COMMISSION # FF 121134
EXPIRES: May 8, 2018
Bonded Thru Budget Notary Services

My Commission Expires: May 8, 2018

State of Florida

Department of State

I certify from the records of this office that AVINO & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on May 10, 1988.

The document number of this corporation is M80081.

I further certify that said corporation has paid all fees due this office through December 31, 2017, that its most recent annual report/uniform business report was filed on January 9, 2017, 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 Ninth day of January, 2017*



Ken DeFoner
Secretary of State

Tracking Number: CC3475544631

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

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

State of Florida

Board of Professional Engineers

Attests that

Jorge Rodolfo Avino , P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019

Audit No: 228201918635 R

P.E. Lic. No:

22207

State of Florida

Board of Professional Engineers

Attests that

Avino & Associates, Inc.



Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019

Audit No: 228201903027 R

CA Lic. No:

5098



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

License No.: **LS4996**
Expiration Date February 28, 2019

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

JORGE R AVINO
1350 SW 57TH AVE STE 207
WEST MIAMI, FL 33144-5700

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

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



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

License No.: **LB5098**
Expiration Date February 28, 2019

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

AVINO & ASSOCIATES INC
1350 SW 57TH AVE STE 207
WEST MIAMI, FL 33144-5700

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE


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

Fernandez-Beraud

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

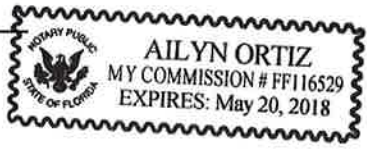
By: 
Leticia Fernandez-Beraud, President
Fernandez-Beraud, Inc.

Sworn and subscribed before me this

14 day of April, 2017.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: _____



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

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Bid or Contract No. 17-002 for
The City of Key West General Engineering Services - Coastal Engineering.

2. This sworn statement is submitted by Fernandez-Beraud, Inc.
(Name of entity submitting sworn statement)
whose business address is 717 Ponce de Leon Blvd., Suite 223, Coral Gables, Florida 33134
_____ and (if applicable) its Federal
Employer Identification Number (FEIN) is 45-0538160 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is Leticia Fernandez-Beraud and my relationship to
(Please print name of individual signing)
the entity named above is Owner/President.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
 1. A predecessor or successor of a person convicted of a public entity crime: or
 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

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

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

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

(Signature)

(Date)

[Handwritten Signature]
04/14/2017

STATE OF Florida

COUNTY OF Dade

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

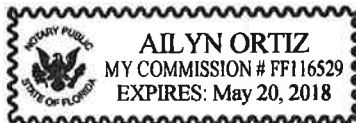
who, after first being sworn by me, affixed his/her signature in the

(Name of individual signing)

space provided above on this 14 day of April, 2017.

My commission expires:
NOTARY PUBLIC

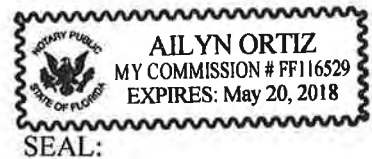
[Handwritten Signature]



INDEMNIFICATION

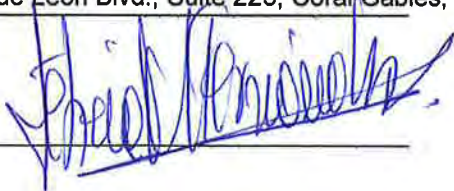
To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONSULTANT under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.



CONTRACTOR: Fernandez-Beraud, Inc.

717 Ponce de Leon Blvd., Suite 223, Coral Gables, FL 33134
Address


Signature

Leticia Fernandez-Beraud
Print Name

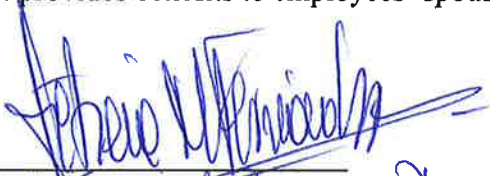
President
Title

04/14/2017
Date

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

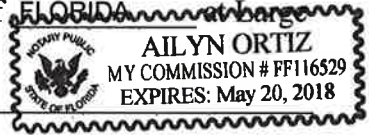
I, the undersigned hereby duly sworn, depose and say that the firm of Fernandez-Beraud, Inc. provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: 
Leticia Fernandez Beraud, President

Sworn and subscribed before me this
14 day of April, 2017.


NOTARY PUBLIC, State of FLORIDA

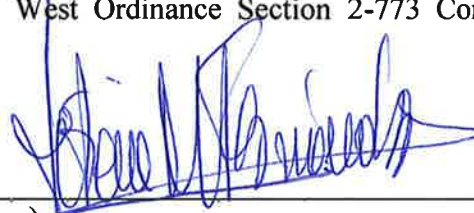
My Commission Expires: _____



CONE OF SILENCE AFFIDAVIT

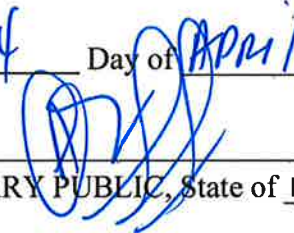
STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of Fernandez-Beraud, Inc. have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

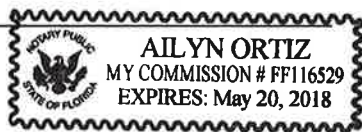
(signature)  Leticia Fernandez B
(date) 04/14/2017 President

Sworn and subscribed before me this

14 Day of April, 2017.


NOTARY PUBLIC, State of FLORIDA at Large

My Commission Expires:





STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

LC26000233

ISSUED: 10/20/2015

LANDSCAPE ARCHITECT BUSINESS
FERNANDEZ-BERAUD INC

HAS REGISTERED under the provisions of Ch.481 FS.

Expiration date : NOV 30, 2017

L1510200003591



GREEN BUSINESS CERTIFICATION INC. CERTIFIES THAT

Leticia Fernandez-Beraud

HAS ATTAINED THE DESIGNATION OF

LEED® Green Associate™

by demonstrating the knowledge and understanding of green building practices and principles needed to support the use of the LEED green building program.

10866796-GREEN-ASSOCIATE

CREDENTIAL ID

02 NOV 2016

ISSUED

02 NOV 2018

VALID THROUGH

A handwritten signature in black ink, appearing to read "Gail Vittori".

GAIL VITTORI, GBCI CHAIRPERSON

A handwritten signature in black ink, appearing to read "Mahesh Ramanujam".

MAHESH RAMANUJAM, GBCI PRESIDENT

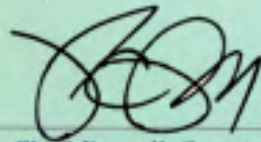
State of Florida

Woman & Minority Business Certification

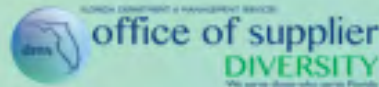
Fernandez-Beraud, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

07/26/2016 to 07/26/2018



Chad Poppell, Secretary
Florida Department of Management Services



State of Florida

Department of State

I certify from the records of this office that FERNANDEZ-BERAUD INC. is a corporation organized under the laws of the State of Florida, filed on April 8, 2004.

The document number of this corporation is P04000062444.

I further certify that said corporation has paid all fees due this office through December 31, 2017, that its most recent annual report/uniform business report was filed on January 17, 2017, 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 Seventeenth day of January,
2017*



Ken DeJong
Secretary of State

Tracking Number: CC8943693287

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


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

Miami Environmental & Civil Engineering, LLC

ANTI-KICKBACK AFFIDAVIT

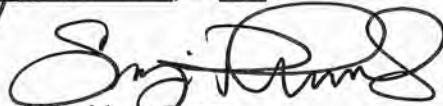
STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: 
Jeffrey P. Thompson, P.E., President
Miami Environmental & Civil Engineering, LLC

Sworn and subscribed before me this

17th day of April, 2017.


NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 12/08/2019



INDEMNIFICATION

To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONSULTANT under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR: Miami Environmental & Civil Engineering, LLC

SEAL:

12955 Biscayne Blvd., Ste. 314C, North Miami, FL 33181

Address



Signature

Jeffrey P. Thompson

Print Name

President

Title

4/17/17

Date

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

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE
AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted with Bid, Bid or Contract No. 17-002 for
General Engineering Services.

2. This sworn statement is submitted by Miami Environmental & Civil Engineering, LLC
(Name of entity submitting sworn statement)

whose business address is 12955 Biscayne Blvd., Ste. 314C, North Miami, FL 33181

_____ and (if applicable) its Federal
Employer Identification Number (FEIN) is 47-4656633 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is Jeffrey P. Thompson and my relationship to
(Please print name of individual signing)

the entity named above is President.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means

1. A predecessor or successor of a person convicted of a public entity crime: or

2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

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

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

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

(Signature)



(Date)

4/17/17

STATE OF FLORIDA

COUNTY OF MIAMI-DADE

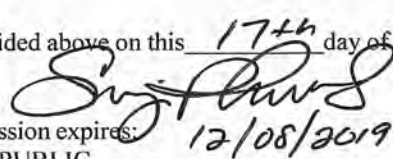
PERSONALLY APPEARED BEFORE ME, the undersigned authority,

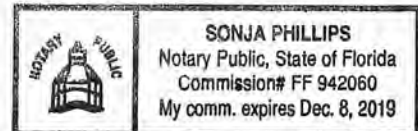
who, after first being sworn by me, affixed his/her signature in the

(Name of individual signing)

space provided above on this 17th day of April, 2017.

My commission expires:
NOTARY PUBLIC


12/08/2019



EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF MIAMI-DADE)

I, the undersigned hereby duly sworn, depose and say that the firm of Miami Environmental & Civil Engineering, LLC provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: [Signature]

Sworn and subscribed before me this

17th day of April, 2017.

[Signature]
NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 12/08/2019





Florida Board of Professional Engineers
2639 North Monroe Street, Suite B-112
Tallahassee, FL 32303-5268

Miami Environmental & Civil Engineering, LLC
900 NE 125TH STREET
SUITE 206
NORTH MIAMI, FL 33161

Each licensee is solely responsible for notifying the Florida Board of Professional Engineers in writing the licensee's current address.

Name changes require legal documentation showing name change. An original, a certified copy, or a duplicate of an original or certified copy of a document which shows the legal name change will be accepted unless there is a question about the authenticity of the document raised on its face, or because the genuineness of the document is uncertain, or because of another matter related to the application.

At least 90 days prior to the expiration date shown on this license, a notice of renewal will be sent to your last known address. If you have not yet received your notice 60 days prior to the expiration date, please call (850) 521-0500, or write, Florida Board of Professional Engineers, 2639 North Monroe Street; Suite B-112, Tallahassee, FL 32303-5268 or e-mail: board@fbpe.org. Our website address is <http://www.fbpe.org>.

State of Florida

Board of Professional Engineers

Attests that

Miami Environmental & Civil Engineering, LLC

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019

Audit No: 228201901823 R



CA Lic. No:

31394