



REQUEST FOR QUALIFICATIONS NO. 12-002
GENERAL LANDSCAPE ARCHITECTURAL SERVICES



May 2, 2012

CHEN•MOORE

&ASSOCIATES



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May 2, 2012

City Clerk
City of Key West
3126 Flagler Ave
Key West, FL 33040

Subject: RFQ #12-002: General Landscape Architectural Services

Chen Moore and Associates (CMA) is an engineering and landscape architecture firm founded in 1986 with five offices in Florida. CMA has been working for governmental clients in the Florida Keys since 2001 and has completed a wide variety of projects, including streetscaping and park improvements locally. CMA continues a successful 7-year relationship with the City of Key West, working on projects through our General Engineering Services Agreement. Our staff and team of subconsultants have worked on projects such as the Pedestrian Bridge at Truman Annex, the City's Solid Waste Transfer Station, and the City's Public Transportation facilities as well as others for the city's redevelopment agency. The project manager for CMA on this project will be Cristobal Betancourt, RLA, the firm's Director of Landscape Architecture and Planning. With over 17 years of domestic and international experience, including a significant amount of recent work in Southern Florida, Cris is able to take on the challenging conditions in Key West. Cris will be assisted by Assistant Project Manager Jeff Houghtaling, RLA, who has nearly 20 years of experience in Florida. They will be assisted by a team of landscape and irrigation designers, planners and a robust engineering team to accomplish any of the City's needs.

The City of Key West poses some unique challenges due to its population density, geographic location, geology, and relationship to the sea. The proper selection of construction and plant materials that are durable and sustainable in a maritime environment becomes a critical factor in the successful completion of hardscape and landscape projects to be implemented in the city. The design team also needs to be cognizant of occasional flooding due the significant storm events that the city experiences and the limited availability of water for irrigation.

Project Manager Expertise

Mr. Cris Betancourt, RLA is well suited for the City of Key West. He has worked not only in South Florida, but in other coastal regions of the United States and the Caribbean. He is familiar with the scarcity of water, the sensitive coastal environment, and the impacts that careless planning and construction can have on marine life. He applies low impact development techniques to all of his projects in order to minimize any impact to the surrounding environment and works with local materials to the greatest extent possible in order to use plants that are acclimated and construction materials that are suitable to the location. Mr. Betancourt currently works with several municipalities in South Florida including Miami Beach, Fort Lauderdale, Deerfield Beach, Pompano Beach, Coral Springs, and Sunrise. He is familiar with the special needs of South Florida's coastal communities and has a broad array of master planning and landscape architecture experience. Mr. Betancourt has worked on many municipal projects including South Pointe Neighborhood Improvements in Miami Beach, Oceanfront Park in Boynton Beach, Osprey Pointe Golf Course in Boca Raton, and the Wellington Environmental Preserve at the Marjory Stoneman Douglas Everglades Habitat. Cris's team is currently working on streetscape and parks projects for Miami Beach, a complete streets master plan project for Fort Lauderdale, a landscape manual for the City of Sunrise, and multiple projects for Florida Atlantic University geared towards creating more sustainable campuses. They are also providing planning support for the City of Coral Springs. Mr. Betancourt is highly motivated and provides quality responsive service to all of his clients. He has a thorough understanding of the regulatory and construction environment in South Florida, including permitting through the Florida Department of Environmental Protection, Florida Fish and Wildlife, and the Army Corps of Engineers, which is critical to Florida's Coastal Communities. He knows how to identify the needs of the client and provide solutions.

Landscape Architecture Staff

Our landscape architecture staff provides multiple services including master planning, site planning, land use entitlement, landscape, hardscape, irrigation, lighting, and wayfinding design. Our portfolio of work includes streetscapes, parks and recreation, roofscapes, golf courses, athletic fields, municipal building facilities such as community centers and government centers, and other types of projects that are typically found in communities throughout the state. Our staff also works with private clients giving us a 360-degree view of land development practices.

The Chen Moore team’s current workload will allow all Chen Moore and Associates proposed staff and resources to immediately start work on any project assigned by the City. Because of our resources and qualified personnel, Chen Moore and Associates is able to overcome any unforeseen delays by assigning additional staff. We make the commitment that all key personnel on the project team will be dedicated as necessary to meet the needs of the City of Key West. We realize that on-time delivery is a key element in meeting our commitments to clients.

Chen Moore and Associates prides ourselves on the kind of service that can only be found in smaller organizations because every client is of the utmost importance to us. We are looking forward to meeting with the Selection Committee to describe our understanding of the project and our approach to accomplish the necessary tasks.

Respectfully submitted,



Peter Moore, P.E., LEED AP, President

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1. Complete Company Profile

Chen Moore and Associates (CMA) is a multi-discipline consulting firm that is a Florida State MBE certified and locally certified CBE firm located in Miami, Fort Lauderdale, West Palm Beach, Stuart and Gainesville, Florida. Founded in 1986, the firm has grown to a staff of 32 full-time personnel. CMA has successfully completed a wide range of projects involving planning, design and construction of capital improvements projects in a multitude of disciplines including:

- Landscape Architecture and Urban design
- Site Master Planning
- Civil Engineering (including drainage, roadway, water distribution/supply/treatment, wastewater collection/transmission/treatment/disposal, pump station design and rehabilitation, utility coordination and stormwater pollution prevention)
- Environmental Engineering
- Infrastructure Master Planning
- Reuse and Irrigation Design
- Program Management
- GIS analysis and Mapping
- Grant and Loan Services
- Bidding and Construction Administration Services

The firm includes 12 licensed professional engineers, seven LEED Accredited Professionals and two licensed landscape architects. The firm is celebrating its 25th anniversary in business serving South Florida and our Miami Office is celebrating its 14th anniversary in Miami-Dade County.

Landscape Architecture and Planning Services

- Master Planning
- Site Planning Design and Processing
- Irrigation Design
- Community Planning
- Urban Redevelopment
- Comprehensive Planning
- Parks and Recreation Planning and Design
- Campus Planning and Design
- Due Diligence and Feasibility Reports
- Land Use Entitlements
- Landscape Planning and Design
- Hardscape Feature Design
- Streetscape Design
- Greenway and Trails Design
- Wayfinding
- Lighting Design
- Graphic Design and Presentation
- Habitat Restoration

Chen Moore's landscape architecture and planning team provides creative solutions for a diverse clientele. The team is currently working on municipal, higher education, and private development projects throughout the state of Florida. Chen Moore is known and respected for our thorough understanding of site and permitting constraints prior to commencing a project. We are highly responsive and provide out-of-the-box solutions to our clients' needs. Our department is committed to developing solutions that are sustainable, economically, socially, and environmentally.

Unique Qualifications

Chen Moore and Associates has been providing professional services in the Florida Keys since 2001. We have held a General Engineering Services Contract with the City of Key West since 2007 and during that time have proven ourselves to be a knowledgeable and responsive consultant. ***Our staff and team of subconsultants have worked on projects such as the Pedestrian Bridge at Truman Annex, the City's Solid Waste Transfer Station, and the City's Public Transportation facilities among others for the City's redevelopment agency.*** We hope to have the opportunity to demonstrate our landscape architecture capabilities as well.

Our landscape architecture team is currently providing all of the services requested in the RFQ for many other municipalities throughout Florida. Some highlights are as follows:

- Developing a Complete Streets Master Plan, incorporating better pedestrian and bicycle pathways; traffic calming in the form of hardscape at intersections; traffic circles; pedestrian lighting; landscape; and irrigation enhancements for the Middle River Terrace Neighborhood in Fort Lauderdale.
- Authoring a Landscape Manual for the City of Sunrise to educate the City's Residents and Business Owners about their responsibilities for maintaining their installed landscapes.
- Providing site planning, hardscape, landscape, irrigation design and construction administration for the new \$41 million 600-bed student dormitory for the Boca Raton Campus of Florida Atlantic University. This will be our sixth LEED certified project for FAU and our tenth overall.
- Currently providing construction administration services for the installation of \$5 million worth of landscape, irrigation, and hardscape improvements for the South Pointe Neighborhood in Miami Beach. The team has tagged all of the specimen plant material personally for the project.

In addition to these projects, our landscape architecture and planning staff provide support to the City of Coral Springs Community Development Department as an extension of City staff for site plan reviews and recommendations for approvals to the City's Architectural Review Board and Planning & Zoning Board.

In-house Irrigation Design

Our Landscape Architecture Department designs all of their irrigation in house. They have a passion for water conservation and stay current with irrigation technology through continuing education. They believe that irrigation design is best practiced by professionals who also have a strong knowledge of plant materials and their appropriate placement to use natural resources wisely. Irrigation manufacturers have recognized their knowledge and regularly fly them to their facilities for continued training. Our staff is currently working with the Cities of Deerfield Beach (287 separate irrigation systems) and Miami Beach (365 separate irrigation systems) to transition the cities to Central Irrigation Control Systems, which will save them significant time in terms of maintenance, money, staff and outsourced services needed to maintain the systems.

Our Landscape Architecture Department designs all of their irrigation in house.

Highly Experienced Landscape Architecture Staff

Our team has worked with many coastal properties and has hands-on experience obtaining Coastal Construction Line Permitting through the Florida Department of Environmental Protection (FDEP), Florida Fish and Wildlife Commission (FFWLC), and the Army Corps of Engineers (ACOE). The team is currently working on projects requiring CCCL permitting in Deerfield Beach and Miami Beach. Because of this experience, our team is also familiar with the requirements of Turtle-Friendly Lighting and the selection of construction materials and plants that prove durable in maritime environments. Coastal Projects have been completed in the last five years in Fort Pierce, Boynton Beach, and Fort Lauderdale.

The landscape architecture staff at Chen Moore and Associates has worked on small- and large-scale Parks and Recreation facilities in South Florida ranging from master planning of entire park systems to one-acre pocket parks. They have completed long range master planning for parks and recreation systems for Oakland Park, the design and permitting of a 365-acre natural-resource-based park for Wellington, multiple neighborhood park master plans, beach access park improvements, municipal golf courses, and athletic fields.

Our department is certified with the Florida Department of Transportation (FDOT) to provide landscape architecture services. They are familiar with their current design standards and processes, and attend seminars as necessary to stay current with their standards.

Many members our team are active in the American Society of Landscape Architects, American Planning Association, Irrigation Association, International Society of Arboriculture, and the Urban Land Institute.

Our department is certified with the Florida Department of Transportation (FDOT) to provide landscape architecture services

The CMA Advantage

- CMA works with over 30 municipalities in Miami-Dade, Broward and Monroe Counties. This allows CMA to truly be the City of Key West's consultant and advisor for landscape architecture driven projects. Experience counts.
- Our track record and strategy communicate with residents during construction, with City staff or through public meetings is a significant advantage. Even the best design needs to be communicated properly. Empowering the community through the process makes a difference.
- Chen Moore and Associates believes in creating sustainable communities and our landscape architecture team is a bright spot in our efforts. Our accomplishments and the variety of services we offer as a small business are an extraordinary value. Give us the chance to prove it.

State Licenses

Following are the State of Florida professional licenses for Chen Moore and Associates and our licensed landscaped architects and civil engineers.

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AC# 5753378 STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE SEQ# L11091600727

DATE	BATCH NUMBER	LICENSE NBR
09/16/2011	000000000	LC26000425

The LANDSCAPE ARCHITECT BUSINESS Named below HAS REGISTERED Under the provisions of Chapter 481 FS. Expiration date: NOV 30, 2013

CHEN AND ASSOCIATES CONSULTING ENGINEERS INC
500 W CYPRESS CREEK RD STE 410
FORT LAUDERDALE FL 33309

RICK SCOTT GOVERNOR KEN LAWSON SECRETARY
DISPLAY AS REQUIRED BY LAW

State of Florida
Board of Professional Engineers
Chen And Associates Consulting Engineers, Inc.

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

Certificate of Authorization

EXPIRATION: 2/28/2013 CA. Lic. No: 4593
AUDIT No: 228201301003 D

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AC# 5753669 STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE SEQ# L11091601435

DATE	BATCH NUMBER	LICENSE NBR
09/16/2011	118043327	LA6666941

The LANDSCAPE ARCHITECT Named below HAS REGISTERED Under the provisions of Chapter 481 FS. Expiration date: NOV 30, 2013

BETANCOURT, CRISTOBAL ALEX
4838 SE GRAHAM DRIVE
STUART FL 34997

RICK SCOTT GOVERNOR KEN LAWSON SECRETARY
DISPLAY AS REQUIRED BY LAW

State of Florida
Board of Professional Engineers
Attests that
Peter Michael Moore, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. Lic. No: 58709
AUDIT No: 228201309042

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AC#5895047 STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE SEQ# L11112500057

DATE	BATCH NUMBER	LICENSE NBR
11/25/2011	118097669	LA6666783

The LANDSCAPE ARCHITECT Named below HAS REGISTERED Under the provisions of Chapter 481 FS. Expiration date: NOV 30, 2013

HOUGHTALING, JEFF A
129 DAYTON RD
LAKE WORTH FL 33467

RICK SCOTT GOVERNOR KEN LAWSON SECRETARY
DISPLAY AS REQUIRED BY LAW

State of Florida
Board of Professional Engineers
Attests that
Jose Luis Acosta, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. Lic. No: 63827
AUDIT No: 228201303522

State of Florida
Board of Professional Engineers
Attests that
Michael G. Buick, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. Lic. No: 65894
AUDIT No: 228201312648

State of Florida
Board of Professional Engineers
Attests that
Oscar R. Bello, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. Lic. No: 61612
AUDIT No: 228201305700

State of Florida
Board of Professional Engineers
Attests that
PETER JOHN DUENO, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. Lic. No: 73781
AUDIT No: 228201332257 I

2. Team Member Name and Qualifications

Please see page 3-1 in the following section for the qualifications of the Chen Moore and Associates team members.

Subconsultants

Carty Architecture, LLC is a woman owned Architectural and Interior Design firm located in Coral Gables, Florida. The majority of our experience is for Public clients and many of those projects have been recreational and athletic facilities. Our programming and planning experience includes conducting public meetings, surveys, multiple department staff meetings etc. as may be needed to establish project direction. We are very familiar with producing and permitting phased documents, as will be required for this project.

AECOM's experts are global leaders in providing fully integrated engineering, design and program management services for a broad range of markets in the Americas – throughout the United States, Canada, Mexico and South America. AECOM remains atop Engineering News-Record's list of the Top 500 design firms where they are ranked #1 in Pure Design. Their multidisciplinary staff of engineers, planners, construction specialists and other professionals is strategically deployed in offices across the Americas and worldwide. AECOM's unique perspective brings together global resources with local expertise. Their goal is to provide exceptional and high quality professional and technical services using creative solutions for all challenges, large and small.



UNITED Engineering, Inc. provides structural design services that include New Construction, Expert Witness, Peer Review, Value Engineering, Forensic Investigation, Rehabilitation/Repair, and Construction Observation. They provide these services across several market sectors that include governmental, commercial, institutional, mixed-use, residential, healthcare, specialty structures, and sports facilities. They also have experience with several delivery methods of construction such design-build, GMP, CM at risk, and traditional design-bid-build.



Project Caine, Inc. is a full service consulting engineering firm. A Florida corporation, the firm was established in 2005. Under the leadership of Robert B. Caine, the firm emphasizes responsiveness to client's needs and questions and specializes in timely and quality design. The president of Project Caine, Inc., previously a senior partner and board member of the largest MEP firm in Florida, brings over 30 years of national and international design experience for various project types such as institutional, commercial, aviation, healthcare, higher educational, and port terminal facilities.



Nutting Engineers of Florida, Inc. provides a wide variety of engineering and materials testing services including threshold inspections. Geotechnical engineering services include investigations, analysis, and recommendations for site feasibility, foundations, embankments, pavements, retention structures, and other earthworks projects.



RMPK Funding specializes in obtaining alternative funding for municipalities across Florida. They currently represent 29 municipalities throughout the State of Florida. Over the last nine years, RMPK Funding has worked with local communities to obtain \$75 million in funding. These funding programs have helped their clients complete road projects, trails, cultural facilities and all types of recreational facilities. Their staff has a wide range of experience in local, state and federal programs.



Sandra Walters Consultants, Inc. (SWC) will provide ecological and environmental services. They provide services in all areas of ecological and environmental consulting and land use and public facilities planning and permitting, including habitat assessments, wetland permitting and mitigation design,



environmental impact statements, compliance monitoring, development agreements, and submerged land leases. SWC has extensive experience working with regulatory agencies to develop project designs that minimize impacts and meet permitting requirements, and to bring clients into compliance with regulatory standards. The firm has conducted data collection and analysis, and written environmental and planning sections of NEPA documents for FDOT, the FAA, the South Florida Water Management District, and U.S. Army Corps of Engineers. SWC also provides environmental compliance monitoring services during construction.

3. Key Personnel Expertise

Chen Moore and Associates has an exceptional staff to handle the various projects listed in the Request for Proposals. For this contract, we have identified the following key personnel to lead the Chen team. Resumes for our team members are located at the end of this section.



Peter Moore, P.E., LEED AP has over 14 years of responsible and diversified experience in design and construction management, and inspection of infrastructure and roadway projects and acts as the City Engineer under our contract with the City of Coral Springs. Mr. Moore will serve as principal-in-charge for this project.

Cristobal Betancourt, RLA is Chen Moore and Associates' Director of Landscape Architecture and Planning. He has over 17 years of experience providing planning and landscape architecture design solutions for public and private sector clients. Mr. Betancourt provides a full range of services starting with due diligence and master planning culminating in detailed site design. He is well versed in the use of low-impact development techniques applied to site planning. Mr. Betancourt will serve as project manager and will lead all landscape architecture/master planning services under this contract.

Jeff Houghtaling, RLA, who will serve as the Assistant Project Manager, has 18 years of landscape architecture experience providing conceptual hardscape/landscape design and presentations for various municipalities and private developers throughout South Florida. Mr. Houghtaling's experience includes construction drawings, layout plans, and construction details for site walls, pergolas, swimming pools, spas, fountains, garden walks, patios, driveways and other hardscape features. Mr. Houghtaling has extensive horticultural knowledge and experience with plant materials, including planting plans, specifications, and details, and comprehensive plant schedules. In addition, Jeff has successfully made presentations to HOA's, town councils, and architectural review boards. Jeff recently worked on a parks and recreation master plan for the City of Oakland Park and provided landscape plans for a portion of the Miami Greenway project.

Stefan Bortak is a designer in Chen Moore and Associates Stuart office. He is responsible for all aspects of irrigation consulting, design, details and specifications. He prepared landscape, hardscape, and irrigation plans from concept to construction documents; irrigation distribution plans; water use permits; water use analysis; LEED documentation and calculations. Mr. Bortak has also performed construction administration, shop drawing review, and inspections.

Joel Brownsey has over six years of planning experience that has involved working alongside engineers in a variety of disciplines such as site design, green space planning, intermodal streetscape design, and utility planning. His experience in South Florida to date includes design work for neighborhood right of way improvement projects for the City of Dania Beach, City of Miami Beach and for several community redevelopment projects for the City of Fort Lauderdale. He also provides development recommendations for municipal boards and technical solutions for the Fort Lauderdale, Miami and Stuart offices.

Jose Acosta, P.E. will serve as the lead design engineer. Mr. Acosta has over 12 years of experience and has served as the project manager and Engineer of Record on many similar projects for the Town of Miami Lakes and the City of Miami Gardens. He has also served in a quality control management role with the City of Miami Beach and the Village of Pinecrest. He has previously worked on water and wastewater projects throughout Miami-Dade and Monroe Counties.

Oscar Bello, P.E., our proposed project manager, has over 12 years of experience in the planning, design, permitting, and construction management of water, wastewater, and drainage municipal projects in South Florida. Having recently managed the multi-million dollar Cudjoe Regional Wastewater Collection project and the Navy Pedestrian Bridge, Mr. Bello has extensive experience in the Keys. He is also the project manager for Chen Moore and Associates' continuing services contract with the City of Key West. Mr. Bello has been the engineer of record for approximately 43,000 LF of ROW infrastructure improvements in Miami Beach.

Michael Buick, P.E. is a senior engineer with 10 years of experience designing water and sewer connections for municipal projects, including design calculations, running models, coordinating design with other involved disciplines, cost estimating, and preparing Basis of Design Reports. Mr. Buick has coordinated site projects with numerous permit agencies throughout South Florida, including FDEP, SFWMD, US ACOE, and various County and City agencies. Mr. Buick also has extensive experience working on projects in environmentally-sensitive areas, including wetlands and coastal areas. Having recently completed work on the multi-million dollar Key West Transit Facility project, Mr. Buick is thoroughly familiar with the permitting agencies in Monroe County.

Peter Dueño, P.E. currently serves as an associate senior engineer with Chen Moore and Associates. He holds a Bachelors Degree in Civil Engineering from the University of Florida. He is currently a project engineer on the City Center and South Pointe Right of Way Improvement Projects for the City of Miami Beach. He has also worked as a project engineer in neighborhood improvement projects for the Cities of Dania Beach, North Miami Beach, Key West, and Pinecrest, as well as Miami-Dade DERM. His experience includes planning, pavement marking and signage, streetscape, stormwater modeling and design, water main design, permitting, and cost estimating.

Felix Godoy is a designer with over 20 years of experience in the land development industry including CAD drafting and design, electrical distribution design, site planning, landscape architecture, civil engineering, environmental, surveying and photometric design.

Resumes

Please see page 3-4 for our key team members' resumes.



Principal-in-Charge
Peter Moore, P.E., LEED AP

Project Manager
Cristobal Betancourt, RLA

Assistant Project Manager
Jeff Houghtaling, RLA

Support

<p>Landscape Architecture and Planning Stefan Bortak Joel Brownsey Felix Godoy</p> <p>Civil Engineering Jose Acosta, P.E. Oscar Bello, P.E. Michael Buick, P.E. Peter Dueño, P.E.</p> <p>Architecture Judy Carty, AIA, NCARB, LEED AP</p> <p>Wayfinding and Environmental Graphics Suchada Priyakorn Cartolano Susan L. Mah Jonathan Mugmon</p>	<p>Geotechnical Engineering Richard Wohlfarth, P.E. Christopher Gworek, P.E. Paul Catledge, P.E.</p> <p>Structural Engineering Juan Fuentes, P.E., SE, LEED AP, BD+C</p> <p>MEP Robert B. Caine, PE, LEED® AP Peter Worthy, P.E. Tom Lund, CIPE Victoria N. Willis</p> <p>Grant Writing/Funding Ryan Ruskay</p> <p>Environmental Permitting Sandy Walters</p>
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Subconsultants

Carty Architecture
 Nutting Engineers of Florida
 United Engineering
 Project Caine
 RMPK Funding
 AECOM
 Sandy Walters Consultants

Resumes



Peter M Moore, PE, LEED AP
President and CEO

Education

Bachelor of Science, Civil Engineering,
University of Florida, 1997
Master of Engineering, Civil Engineering,
University of Florida, 2004

Registration

Professional Engineer, Florida, 58709, 2002

Professional Affiliations

- American Society of Civil Engineers
- Florida Engineering Society
- Florida Stormwater Association
- National Society of Professional Engineers

Certifications

Certified Stormwater Inspector
LEED Accredited Professional

Summary

As the President of the firm, Mr. Moore is ultimately responsible for all day to day operations of the firm. Mr. Moore works as the Client Project Manager for work in Broward County, Pompano Beach and Deerfield Beach and continues to be involved in the successful completion of projects. These projects include sanitary collection improvements, pump station rehabilitation, transportation engineering enhancements, water and reclaimed water consulting along with all other phases of civil engineering design and neighborhood improvements.

Project Experience

Parking Services Building Parking Lot Improvements. As part of its General Civil Engineering Contract, Chen Moore and Associates was asked to be the civil site designer for this parking lot rehabilitation project. This included site layout, paving, grading, striping and ADA compliance upgrades.

2011/2012 City Engineer. Since 2005, Chen Moore and Associates has served as the City

Engineer for Coral Springs. In this role, the firm performs the typical duties of an on staff engineer, including engineering permit review and inspections, development reviews and concurrency evaluations, coordination with other City departments and outside agencies and a variety of special projects. In this capacity, CMA manages the majority of the non-utility capital projects in the City, including the review for Community Development Block Grant (CDBG) projects involving sidewalk and drainage (NW 44th Court) and fire line improvements in parks (Mullins Park fire hydrant improvements).

Mullins Park Pathways. Chen Moore and associates developed a master plan for a new pathway system for Mullins Park in the City of Coral Springs. CMA is providing final design and construction administration. The project requires the development of paving, grading, and landscape plans for DRC approval and permitting through the Sunshine Water Control District and SFWMD. The pathways are made of a flexible surface to prevent injuries for pathway users. The layout required that the path be developed sensitively through the park to connect to existing features, such as baseball fields, children's play areas, other existing sports fields and to limit disturbance to existing mature canopy trees.

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project encompasses approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage



improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

As part of the proposed stormwater and drainage services, extensive analysis was conducted utilizing ICPR Modeling and GIS to meet and/or exceed required stormwater Level of Services standards. The proposed stormwater design included the introduction of catch basins, and stormwater piping to effectively collect and route the stormwater to sixteen (16) drainage gravity wells and stormwater pump station with overflow outfall connections to Biscayne Bay. Due to the environmental sensitivity of Biscayne Bay, design and implementation of water quality treatment measures was an important consideration and design factor of the system prior to outfall to the Bay and was closely

coordinated with regulatory agencies during the permitting process.

Navy Pedestrian Bridge at Key West's Truman Annex. Chen Moore and Associates provided engineering services during design and construction of the navy pedestrian bridge. These activities include technical assistance, shop drawings, submittal review, field observation, and meeting attendance. The purpose of the bridge is to provide Navy personnel access over the proposed road to Fort Zachary Taylor.

The bridge was placed in April 2010 after an eight month hiatus due to railroad artifacts discovered during the excavation of the piers. This pedestrian bridge will ultimately serve as the future gateway to Ft. Zachary State Park in Key West. Chen Moore and Associates provided third party engineering design review and construction engineering observation services.

Deerfield Beach Main Beach Parking Area Improvements. Chen Moore and Associates provided conceptual planning to address traffic circulation, landscaping, lighting, parking layout, drainage and existing facility conditions. The conceptual plan has incorporated additional areas for pedestrian use including seating areas and multi-use areas for special events. The project is located in a coastal zone requiring coordination and permitting through the Florida Department of Environmental Protection for work east of the Coastal Construction Control Line (CCCL). There is also a fire station on the site requiring close coordination with the City of Deerfield Beach Fire Department to facilitate emergency response.



Cristobal A Betancourt, RLA
Director of Landscape Architecture

Education

Bachelor of Science, Landscape Architecture,
Cornell University, 1995

Registration

CLARB, 2006
Registered Landscape Architect, Florida,
LA6666941, 2008
Registered Landscape Architect, New Jersey,
AA000949, 2006
Registered Landscape Architect, New York,
001959, 2005

Professional Affiliations

- American Planning Association
- American Society of Landscape Architects
- East Stuart Main Street Design Committee
- International Society of Arboriculture
- Martin County Overall Extension Advisory Committee
- Urban Land Institute

Certifications

Council of Landscape Architectural Registration Board

Summary

Mr. Betancourt is Chen Moore and Associates' Director of Landscape Architecture and Planning. He has experience providing planning and landscape architecture design solutions for public and private sector clients. Mr. Betancourt provides a full range of services starting with due diligence and master planning culminating in detailed site design. He is well versed in the use of low-impact development techniques applied to site planning.

Project Experience

Mullins Park Pathways. Chen Moore and associates developed a master plan for a new pathway system for Mullins Park in the City of Coral Springs. CMA is providing final design and construction administration. The project

requires the development of paving, grading, and landscape plans for DRC approval and permitting through the Sunshine Water Control District and SFWMD. The pathways are made of a flexible surface to prevent injuries for pathway users. The layout required that the path be developed sensitively through the park to connect to existing features, such as baseball fields, children's play areas, other existing sports fields and to limit disturbance to existing mature canopy trees.

City Center Right of Way and Utility Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the City Center neighborhood of Miami Beach. The project encompasses approximately 24,000 LF of ROW infrastructure improvements including: water main replacements; sewer improvements, stormwater drainage improvements; paving & grading; roadway/traffic improvements (streets, sidewalks, curb and gutter, drainage, traffic control devices including striping, signing and channelization); streetscaping and landscaping enhancements; decorative, landscape and roadway lighting improvements; and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks,



incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

This project is currently under construction with CMA staff supporting Miami Beach staff through construction administration services and on-site field observation through CMA staff RPR services.

Deerfield Beach Main Beach Parking Area Improvements. Chen Moore and Associates provided conceptual planning to address traffic circulation, landscaping, lighting, parking layout, drainage and existing facility conditions. The conceptual plan has incorporated additional areas for pedestrian use including seating areas and multi-use areas for special events. The project is located in a coastal zone requiring coordination and permitting through the Florida Department of Environmental Protection for work east of the Coastal Construction Control Line (CCCL). There is also a fire station on the site requiring close coordination with the City of Deerfield Beach Fire Department to facilitate emergency response.

North Shore Bandshell Park Improvements. This project consists of proposed improvements to the existing Bandshell Park located east of Collins Avenue between 72nd and 73rd Streets within the City of Miami Beach. The project includes a new walkway connecting the park to the beachwalk at 72nd Street; the widening of the south sidewalk at 73rd Street which will require either

the removal or reconfiguration of on-street parking; the demolition of the bus shelter; landscaping, outdoor accent and security lighting; reconfiguration and/or addition of walkways; installation of an electronic marquee; installation of the "Beatles Mandala", a mosaic tile artwork; and new urban elements such as drinking fountains, trash containers and bike racks.

Chen Moore and Associates is providing services including civil engineering, landscape architecture and irrigation design work that includes conceptual drawings for the 72nd Street walkway and 73rd Street sidewalk; design development/final design submittals; estimates of probable construction cost; government permitting (including Miami Beach, PERA – formerly DERM, FDOT, FDEP, and Fish & Wildlife); bidding assistance; and construction administration services.

FAU Glades Rd Landscaping. Chen Moore and Associates is providing landscape architecture services for the design of the southern property boundary of the Boca Raton Campus of FAU. The scope of work includes a comprehensive evaluation of the existing landscape, both native and invasive; coordination with the Lake Worth Drainage District, the City of Boca Raton, and FDOT District 4; researching funding opportunities for the modification of the landscape; budget development; and a phased conceptual plan for the execution of the landscape improvements. The design will have a strong focus on eliminating invasive plant species and replacing them with native plants to enhance the main entrances onto FAU's Campus.



Jeff Houghtaling, RLA
Landscape Architect

Education

Associate of Science, Architecture, Middlebury College, 1991

Registration

Registered Landscape Architect, Florida, 2005

Summary

Jeff Houghtaling has 18 years of landscape architecture experience providing conceptual hardscape/landscape design and presentations for various municipalities and private developers throughout South Florida. Mr. Houghtaling's experience includes construction drawings, layout plans, and construction details for site walls, pergolas, swimming pools, spas, fountains, garden walks, patios, driveways and other hardscape features. Mr. Houghtaling has extensive horticultural knowledge and experience with plant materials, including planting plans, specifications, and details, and comprehensive plant schedules. In addition, Jeff has successfully made presentations to HOA's, town councils, and architectural review boards. Jeff recently worked on a parks and recreation master plan for the City of Oakland Park and provided landscape plans for a portion of the Miami Greenway project.

Project Experience

Fort Lauderdale Dixie Highway

Improvements. Chen Moore and Associates is developing a streetscape master plan for Dixie Highway in the Middle River Terrace Neighborhood of Fort Lauderdale. CMA was contracted by the City to work with the local homeowners association who received a grant to fund the development of a complete streets master plan. The neighborhood was developed prior to many current planning and zoning standards being implemented in the

City. As a result, the community has concerns about unsafe conditions for pedestrians and bicyclists due to unregulated land development patterns. CMA is developing the master plan to include pedestrian and bike trails to narrow the width of the travel ways and to add hardscape and landscape beautification, including the development of gateway features into the neighborhood. In order to facilitate the master plan, CMA is analyzing the area for current zoning and right of way conditions, and conducting field studies at different times of the day to understand on-the-ground conditions that are affecting resident safety.

Florida Atlantic University 600-Bed Freshman Housing.

Chen Moore and Associates is providing landscape architecture services for FAU's new 600-bed residence hall to be located in the southeast region of the Boca Raton Campus. The building is pursuing LEED silver certification through the USGBC. The program budget is \$41 million and includes the design of a 7-story residence facility, a dining facility, and the creation of a 360 space parking lot. CMA is developing the site plan which includes volleyball and basketball courts, seating areas, open play areas for impromptu activities, bicycle parking and storage for 225 bicycles, signage, pedestrian circulation, seating walls, decorative paving, pedestrian lighting, landscape, and irrigation design. The project is fast tracked and scheduled for occupancy in August of 2013.

Cooper City Del Prado at Monterra. Chen Moore and Associates is providing full planning, engineering, and landscape architecture services for a 31 lot single family home community within Monterra in Cooper City. Del Prado abuts a future commercial parcel and requires a significant amount of



landscape buffer in order to mitigate the anticipated future impact of commercial activities. CMA is working with the following agencies for the successful completion of the project: Cooper City, Broward County, Central Broward Drainage District, and South Florida Water Management District. The design work includes, master planning of the site, grading, paving, drainage, utility, landscape, lighting, and signage.

Oakland Park - Parks & Recreation Master Plan. Serving as one of the City of Oakland Park's Planning and Design consultants, Mr. Houghtaling was part of a team responsible for preparing a 20-year Master Plan for its citywide Recreation Programs and Parks. This city of 44,000 residents has a system of 24 parks and recreation facilities with a staff of 45 responsible for maintenance and management. This project approach included development of an inventory of existing facilities and resources, creation of a customized web site for communication with the public, inventorying existing residents and community stakeholders, development of physical plans, and establishment of budgets and schedules for implementation over a 5-10-20-year time frame. The entire project required six workshops, interviews with all public officials and current City Commissioners in order to establish support for adoption of the plan within a 12-month time frame.

Cooper City High School Landscape Master Plan. Developed a landscape master plan for the Cooper City High School Campus for the Broward County School Board. The master plan evolved as part of the School Board's desire to introduce native plants and low-maintenance landscapes onto their campuses. The plan identified underutilized areas suitable for planting and the creation of outdoor gathering spaces to enhance the learning experience at the high school.

Broward County School Board – Deerfield Beach Innovation Zone. This project required analysis, landscape and irrigation concept design and construction documents to update the landscape and irrigation systems to accommodate new construction and update and rehabilitate the campus-wide landscapes for the existing Deerfield Beach Middle School and each of its feeder schools. These feeder schools included Norcrest Elementary, Deerfield Beach Elementary, Deerfield Park Elementary, Park Ridge Elementary, and Tedder Elementary. The goal of this project was to prepare environmentally conscious landscape designs for schools according to Innovation Zones that were previously established by the School Board. Key components of these updates included the use of native vegetation, efficient irrigation systems, and the restoration of natural habitats for use in the learning environments. The Client required the consultant to follow LEED standards.

The Waterfront - G9. Provided landscape architecture for a 725-acre urban mixed-use development in the Waterfront District of Dubai, United Arab Emirates. The project area includes six miles of urban streetscape, four miles of commercial and residential waterfront, and three major urban parks. Services include conceptual through final design plans for the project's landscape, hardscape, irrigation, site furnishings, water features, architectural amenities, signage and lighting. This project was developed to achieve Gold LEED Certification.



Marc Stefan Bortak
Landscape Designer

Education

Bachelor of Science, Interdisciplinary Studies,
University of Central Florida, 2012

Registration

N/A

Professional Affiliations

- Irrigation Association

Summary

Mr. Bortak is a designer in Chen Moore and Associates Stuart office. At his former firm, he was responsible for all aspects of irrigation consulting, design, details and specifications. He prepared landscape, hardscape, and irrigation plans from concept to construction documents; irrigation distribution plans; water use permits; water use analysis; LEED documentation and calculations. Mr. Bortak also performed construction administration, shop drawing review, and inspections. He was responsible for producing plan and section renderings and graphics, and realistic 3D renderings and fly-through videos.

Mr. Bortak also assisted with project coordination and quality control between multiple offices; project budgeting and cost estimating; and client consulting for best irrigation practices, new and innovative products, and water conservation. He was responsible for the implementation of Land F/X design software as a department standard for landscape architecture and irrigation design. This included setup software, installation, deployment, creating company standards and software manuals. Mr. Bortak provided training and technical support and managed data and license usage across multiple offices.

Mr. Bortak specializes in Autodesk AutoCAD Map & Civil 3D, Impression, Vault; Bentley Microstation V8; SolidWorks; Land F/X; Adobe

CS3 & CS4 (Photoshop, Illustrator, InDesign); Google SketchUp; Maxwell Render & Maxwell Studio; Microsoft Office Suite.

Project Experience

Deerfield Beach Main Beach Parking Area Improvements. Chen Moore and Associates provided conceptual planning to address traffic circulation, landscaping, lighting, parking layout, drainage and existing facility conditions. The conceptual plan has incorporated additional areas for pedestrian use including seating areas and multi-use areas for special events. The project is located in a coastal zone requiring coordination and permitting through the Florida Department of Environmental Protection for work east of the Coastal Construction Control Line (CCCL). There is also a fire station on the site requiring close coordination with the City of Deerfield Beach Fire Department to facilitate emergency response.

FAU Glades Rd Landscaping. Chen Moore and Associates is providing landscape architecture services for the design of the southern property boundary of the Boca Raton Campus of FAU. The scope of work includes a comprehensive evaluation of the existing landscape, both native and invasive; coordination with the Lake Worth Drainage District, the City of Boca Raton, and FDOT District 4; researching funding opportunities for the modification of the landscape; budget development; and a phased conceptual plan for the execution of the landscape improvements. The design will have a strong focus on eliminating invasive plant species and replacing them with native plants to enhance the main entrances onto FAU's Campus.

Mullins Park Pathways. Chen Moore and Associates developed a master plan for a new pathway system for Mullins Park in the City of Coral Springs. CMA is providing final design and construction administration. The project



requires the development of paving, grading, and landscape plans for DRC approval and permitting through the Sunshine Water Control District and SFWMD. The pathways are made of a flexible surface to prevent injuries for pathway users. The layout required that the path be developed sensitively through the park to connect to existing features, such as baseball fields, children's play areas, other existing sports fields and to limit disturbance to existing mature canopy trees.

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project encompasses approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture,

providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

North Shore Bandshell Park

Improvements. This project consists of proposed improvements to the existing Bandshell Park located east of Collins Avenue between 72nd and 73rd Streets within the City of Miami Beach. The project includes a new walkway connecting the park to the beachwalk at 72nd Street; the widening of the south sidewalk at 73rd Street which will require either the removal or reconfiguration of on-street parking; the demolition of the bus shelter; landscaping, outdoor accent and security lighting; reconfiguration and/or addition of walkways; installation of an electronic marquee; installation of the "Beatles Mandala", a mosaic tile artwork; and new urban elements such as drinking fountains, trash containers and bike racks.

Chen Moore and Associates is providing services including civil engineering, landscape architecture and irrigation design work that includes conceptual drawings for the 72nd Street walkway and 73rd Street sidewalk; design development/final design submittals; estimates of probable construction cost; government permitting (including Miami Beach, PERA – formerly DERM, FDOT, FDEP, and Fish & Wildlife); bidding assistance; and construction administration services.



Jose Luis Acosta, PE
Senior Engineer

Education

Masters of Business Administration, Master of Business Administration, Auburn University, 2003

Bachelor of Science, Civil Engineering, University of Miami, 1999

Bachelor of Science, Architectural Engineering, University of Miami, 1999

Registration

Professional Engineer, Florida, 63827, 2004

Natl. Council of Examiners for Eng. & Surveying, 41987

Professional Affiliations

- American Society of Civil Engineers
- Cuban American Association of Civil Engineers
- Florida Engineering Society
- National Society of Professional Engineers
- Society of Military Engineers
- Urban Land Institute

Certifications

Stormwater Management Inspector

Summary

Mr. Acosta has 12 years of experience directing and performing the design of site civil engineering plans/tasks, including paving, drainage, water, wastewater, roadway, and signing and marking for several municipalities throughout Miami-Dade, Broward and Palm Beach Counties.

Project Experience

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public

right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project encompasses approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies. As part of the proposed stormwater and drainage services, extensive analysis was conducted utilizing ICPR Modeling and GIS to meet and/or exceed required stormwater Level of Services standards.

North Shore Bandshell Park

Improvements. This project consists of proposed improvements to the existing Bandshell Park located east of Collins Avenue between 72nd and 73rd Streets within the City of Miami Beach. The project includes a new walkway connecting the park to the beachwalk at 72nd Street; the widening of the south sidewalk at 73rd Street which will require either the removal or reconfiguration of on-street parking; the demolition of the bus shelter; landscaping, outdoor accent and security



lighting; reconfiguration and/or addition of walkways; installation of an electronic marquee; installation of the "Beatles Mandala", a mosaic tile artwork; and new urban elements such as drinking fountains, trash containers and bike racks. Chen Moore and Associates is providing services including civil engineering, landscape architecture and irrigation design work that includes conceptual drawings for the 72nd Street walkway and 73rd Street sidewalk; design development/final design submittals; estimates of probable construction cost; government permitting (including Miami Beach, PERA – formerly DERM, FDOT, FDEP, and Fish & Wildlife); bidding assistance; and construction administration services.

Pompano Beach Municipal Golf Course.

Working as a subconsultant to Greg Norman Golf Course Design, Chen Moore and Associates is providing landscape design documents for the redesign of a public 18 hole golf course operated by the City of Pompano Beach. The design concept includes the removal of numerous exotic invasive plant species to be replaced with native plant species to improve the general environmental health of the property. The design is required to conform with City of Pompano Beach Tree Protection and Mitigation standards.

City Center Right of Way and Utility Improvement Project.

9A description: Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the City Center neighborhood of Miami Beach. The project encompasses approximately 24,000 LF of ROW infrastructure improvements including: water main replacements; sewer improvements, stormwater drainage improvements; paving &

grading; roadway/traffic improvements (streets, sidewalks, curb and gutter, drainage, traffic control devices including striping, signing and channelization); streetscaping and landscaping enhancements; decorative, landscape and roadway lighting improvements; and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

As part of the proposed stormwater and drainage services, extensive analysis was conducted utilizing ICPR Modeling and GIS to meet and/or exceed required stormwater Level of Services standards. The proposed stormwater design included the introduction of catch basins and stormwater piping to effectively collect and route the stormwater to 16 drainage gravity wells with overflow outfall connections to Biscayne Bay. Due to the environmental sensitivity of Biscayne Bay design and implementation of water quality treatment measures was an important consideration and design factor of the system prior to outfall to the Bay and was closely coordinated with regulatory agencies during the permitting process.



Oscar R. Bello, PE
Project Manager

Education

Bachelor of Science, Civil Engineering,
University of Central Florida, 1999

Registration

Professional Engineer, Florida, 61612, 2004

Professional Affiliations

- American Public Works Association
- American Society of Civil Engineers
- Environmental Coalition of Miami and the Beaches
- Florida Engineering Society
- National Society of Professional Engineers

Certifications

Nuclear Density Gauge Certification
Level I Survey Technician

Summary

Mr. Bello holds a bachelor's degree in civil engineering. He has more than ten years of experience in planning, design, permitting, and construction management of water, wastewater, and drainage municipal projects in Florida. Mr. Bello has worked as a project manager and project engineer for various projects in South and Central Florida. He currently manages municipal projects for the City of Miami Beach, City of Dania Beach, Florida Keys Aqueduct Authority and the City of Key West.

Project Experience

City Center Right of Way Improvement Project. Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the City Center neighborhood of Miami Beach. The project encompasses approximately 24,000

LF of ROW infrastructure improvements including water main replacements, sanitary sewer upgrades, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the Public, adjacent CRAs, historic districts and various regulatory agencies.

As part of the proposed stormwater and drainage services, extensive analysis was conducted utilizing ICPR Modeling and GIS to meet and/or exceed required stormwater Level of Services standards. The proposed stormwater design included the introduction of catch basins and stormwater piping to effectively collect and route the stormwater to 16 drainage gravity wells with overflow outfall to Dade Canal. Water quality treatment was an important consideration and design factor of the system to ensure that appropriate treatment was provided prior to discharge to the gravity wells and outfalls.

Key West - General Transportation Engineering Services. Chen Moore and Associates was selected to provide General Transportation Engineering Services for the City of Key West Department of Transportation (KWDoT). KWDoT provides many services to the community, visitors, and their internal customers (staff), which



consists of over 400 City associates. The three service areas or functions that KWDoT is responsible for providing are public transportation, fleet services, and municipal parking lot operations.

Chen Moore and Associates' first task order was the City of Key West Department of Transportation Facility. The City of Key West proposes to construct a new Transportation Facility on the site of the old Southernmost Waste to Energy Facility (SWTE). The new facility will serve as the transportation operations and administration building for the City of Key West and be the primary terminal/transfer station for lower keys shuttle bus service which serves Marathon to Key West. It will provide parking for customers of public transportation and employees as well as a plan for Phase II of the construction on the remaining land at this site to incorporate tour bus parking and shuttle services into Key West from Stock Island, Florida.

The project will allow for expanded public transportation, adequate office and parking space for employees, as well as training rooms, locker rooms, and space for additional personnel that will be required to move the community into the next generation of public transit services, which includes security issues related to the Homeland Security Act. Funding is provided in part by the Federal Transportation Authority and the Florida Department of Transportation. Compliance with the National Environmental Policy Act for the proposed site improvements will be a requirement for the federal funding aspects for the project. Project is on track to become LEED Silver certified.

Navy Pedestrian Bridge at Key West's Truman Annex. The bridge was placed in April 2010 after an eight month hiatus due to railroad artifacts discovered during the excavation of the piers. This pedestrian bridge will ultimately serve as the future

gateway to Ft. Zachary State Park in Key West. Chen Moore and Associates provided third party engineering design review and construction engineering observation services.

Final Design Cudjoe Regional WW Collection Project. Chen and Associates is the engineering consultant for the final design and permitting of installation of a wastewater collection systems within Monroe County. Recognizing that the economic health of Monroe County and its municipalities relies largely on the environmental health of a unique marine ecosystem, the County's Year 2010 Comprehensive Plan mandated that nutrient loading levels be reduced in the marine ecosystem of the Florida Keys. In June of 2000, the Sanitary Wastewater Master Plan (Master Plan) was finalized with the goal of eliminating approximately 23,000 private on-site wastewater systems by July 2010. Through interlocal agreement, Monroe County has requested that the Florida Keys Aqueduct Authority (FKAA) design, build, and operate County-owned infrastructure on behalf of the citizens in the master-plan prescribed service areas.

The service areas for the proposed wastewater collection systems under this project include Big Pine Key, Little Torch Key, Ramrod Key, Noname Key, and Lower Sugarloaf Keys. Chen and Associates is responsible for the final planning, design and permitting services to cover the non-central service areas of the regional system. The final product will be a permitted conveyance system that will combine various wastewater collection system technologies in order to connect as many on-site wastewater systems as possible for the lowest overall cost. The combined strategic utilization of proper planning and technology, extending to the greatest number of connections for the best value, is an approach developed by the FKAA through its years of experience in the water and wastewater utility business.



Michael G Buick, PE
Senior Engineer

Education

Bachelor of Science, Biosystems Engineering,
University of Manitoba, 2000

Registration

Professional Engineer, Florida, 65894, 2007

Professional Affiliations

- American Society of Civil Engineers
- Environmental Coalition of Miami and the Beaches
- Florida Engineering Society
- National Society of Professional Engineers
- Urban Land Institute

Certifications

Certified Stormwater Management Inspector

Summary

Mr. Buick is a senior engineer in our Miami office and has over eight years of experience in site development. His experience includes planning, design and permitting of site infrastructure including site paving, grading and drainage and site utility plans for land development projects.

Mr. Buick is responsible for designing stormwater management systems (paving, grading and drainage) and water and sewer connections for residential and utility site development projects including design calculations, running flood routing models, drafting design drawings with AutoCAD, coordinating design with other involved disciplines, calculating opinion of probable costs, and writing Basis of Design Reports. Mr. Buick has coordinated site development projects with numerous permit agencies throughout South Florida including, FDEP, SFWMD, US ACOE, and various County and City agencies. Mr. Buick also has extensive experience working on projects in environmentally sensitive areas including wetlands and coastal areas.

Project Experience

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project encompasses approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

Navy Pedestrian Bridge at Key West's Truman Annex.

Chen Moore and Associates provided engineering services during design and construction of the navy pedestrian bridge. These activities include technical assistance, shop drawings, submittal review, field



observation, and meeting attendance. The purpose of the bridge is to provide Navy personnel access over the proposed road to Fort Zachary Taylor.

The bridge was placed in April 2010 after an eight month hiatus due to railroad artifacts discovered during the excavation of the piers. This pedestrian bridge will ultimately serve as the future gateway to Ft. Zachary State Park in Key West. Chen Moore and Associates provided third party engineering design review and construction engineering observation services.

City Center Right of Way and Utility Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the City Center neighborhood of Miami Beach. The project encompasses approximately 24,000 LF of ROW infrastructure improvements including: water main replacements; sewer improvements, stormwater drainage improvements; paving & grading; roadway/traffic improvements (streets, sidewalks, curb and gutter, drainage, traffic control devices including striping, signing and channelization); streetscaping and landscaping enhancements; decorative, landscape and roadway lighting improvements; and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of

the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

As part of the proposed stormwater and drainage services, extensive analysis was conducted utilizing ICPR Modeling and GIS to meet and/or exceed required stormwater Level of Services standards. The proposed stormwater design included the introduction of catch basins and stormwater piping to effectively collect and route the stormwater to 16 drainage gravity wells with overflow outfall connections to Biscayne Bay. Due to the environmental sensitivity of Biscayne Bay design and implementation of water quality treatment measures was an important consideration and design factor of the system prior to outfall to the Bay and was closely coordinated with regulatory agencies during the permitting process.



Peter J. Dueño, PE
Associate Engineer

Education

Bachelor of Science, Civil Engineering,
University of Florida, 2006

Registration

Professional Engineer, Florida, 73781, 2012

Professional Affiliations

- American Society of Civil Engineers
- Florida Engineering Society
- Southeast Civil Gators

Summary

Mr. Dueño currently serves as a senior engineer with Chen Moore and Associates. He holds a Bachelor's Degree in Civil Engineering from the University of Florida. He is currently a project engineer on the City Center and South Pointe Right of Way Improvement Projects for the City of Miami Beach. He has also worked as a project engineer in neighborhood improvement projects for the Cities of Dania Beach, North Miami Beach, Key West, and Pinecrest, as well as Miami-Dade DERM. His experience includes planning, pavement marking and signage, streetscape, stormwater modeling and design, water main design, permitting, and cost estimating.

Project Experience

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project encompasses approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements,

lighting improvements, and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

Navy Pedestrian Bridge at Key West's

Truman Annex. Chen Moore and Associates provided engineering services during design and construction of the navy pedestrian bridge. These activities include technical assistance, shop drawings, submittal review, field observation, and meeting attendance. The purpose of the bridge is to provide Navy personnel access over the proposed road to Fort Zachary Taylor.

The bridge was placed in April 2010 after an eight month hiatus due to railroad artifacts discovered during the excavation of the piers. This pedestrian bridge will ultimately serve as the future gateway to Ft. Zachary State Park in Key West. Chen Moore and Associates provided third party engineering design review and construction engineering observation services.

City Center Right of Way and Utility Improvement Project.

Chen Moore and Associates is the prime consultant and is



responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the City Center neighborhood of Miami Beach. The project encompasses approximately 24,000 LF of ROW infrastructure improvements including: water main replacements; sewer improvements, stormwater drainage improvements; paving & grading; roadway/traffic improvements (streets, sidewalks, curb and gutter, drainage, traffic control devices including striping, signing and channelization); streetscaping and landscaping enhancements; decorative, landscape and roadway lighting improvements; and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at

crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

As part of the proposed stormwater and drainage services, extensive analysis was conducted utilizing ICPR Modeling and GIS to meet and/or exceed required stormwater Level of Services standards. The proposed stormwater design included the introduction of catch basins and stormwater piping to effectively collect and route the stormwater to 16 drainage gravity wells with overflow outfall connections to Biscayne Bay. Due to the environmental sensitivity of Biscayne Bay design and implementation of water quality treatment measures was an important consideration and design factor of the system prior to outfall to the Bay and was closely coordinated with regulatory agencies during the permitting process.

This project is currently under construction with CMA staff supporting Miami Beach staff through construction administration services and on-site field observation through CMA staff RPR services.



Joel P Brownsey
Associate Planner

Education

Bachelor of Arts, Urban Planning, State University of New York at Albany, 2002
Associate of Science, Surveying and Mapping, University of New Hampshire, 2000

Registration

N/A

Professional Affiliations

- American Society of Civil Engineers

Certifications

Stormwater Management Inspector
MOT Workzone Traffic Control: Intermediate Level

Summary

Mr. Brownsey has over nine years of experience in the Civil Engineering field where he has worked alongside engineers in a variety of disciplines such as site design, utility infrastructure design, and surveying. His experience in south Florida to date includes detailed design work on two neighborhood right of way infrastructure improvement projects for the City of Miami Beach, and on several Engineering projects for the City of Fort Lauderdale. He also provides technical solutions for the Fort Lauderdale and Miami Beach offices.

Project Experience

City Center Right of Way and Utility Improvement Project.

9A description: Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the City Center neighborhood of Miami Beach. The project encompasses approximately 24,000 LF of ROW infrastructure improvements including: water main replacements; sewer improvements,

stormwater drainage improvements; paving & grading; roadway/traffic improvements (streets, sidewalks, curb and gutter, drainage, traffic control devices including striping, signing and channelization); streetscaping and landscaping enhancements; decorative, landscape and roadway lighting improvements; and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

This project is currently under construction with CMA staff supporting Miami Beach staff through construction administration services and on-site field observation through CMA staff RPR services.

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project



encompasses approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project also required extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies.

As part of the proposed stormwater and drainage services, extensive analysis was conducted utilizing ICPR Modeling and GIS to meet and/or exceed required stormwater Level of Services standards. The proposed stormwater design included the introduction of catch basins, and stormwater piping to effectively collect and route the stormwater to sixteen (16) drainage gravity wells and stormwater pump station with overflow outfall connections to Biscayne Bay. Due to the environmental sensitivity of Biscayne Bay,

design and implementation of water quality treatment measures was an important consideration and design factor of the system prior to outfall to the Bay and was closely coordinated with regulatory agencies during the permitting process.

Mullins Park Pathways. Chen Moore and associates developed a master plan for a new pathway system for Mullins Park in the City of Coral Springs. CMA is providing final design and construction administration. The project requires the development of paving, grading, and landscape plans for DRC approval and permitting through the Sunshine Water Control District and SFWMD. The pathways are made of a flexible surface to prevent injuries for pathway users. The layout required that the path be developed sensitively through the park to connect to existing features, such as baseball fields, children's play areas, other existing sports fields and to limit disturbance to existing mature canopy trees.

Deerfield Beach Main Beach Parking Area Improvements. Chen Moore and Associates provided conceptual planning to address traffic circulation, landscaping, lighting, parking layout, drainage and existing facility conditions. The conceptual plan has incorporated additional areas for pedestrian use including seating areas and multi-use areas for special events. The project is located in a coastal zone requiring coordination and permitting through the Florida Department of Environmental Protection for work east of the Coastal Construction Control Line (CCCL). There is also a fire station on the site requiring close coordination with the City of Deerfield Beach Fire Department to facilitate emergency response.



Felix Peter Godoy
Designer

Education

Bachelor of Science, Criminal Justice, Florida International University, 1995
Associate of Arts, Miami-Dade College, 1991

Registration

N/A

Professional Affiliations

N/A

Certifications

AutoCAD 2009 Certified Professional
Bentley Institute Microstation V8 update Certificate.

Project Experience

City Center Right of Way and Utility Improvement Project. Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the City Center neighborhood of Miami Beach. The project encompasses approximately 24,000 LF of ROW infrastructure improvements including: water main replacements; sewer improvements, stormwater drainage improvements; paving & grading; roadway/traffic improvements (streets, sidewalks, curb and gutter, drainage, traffic control devices including striping, signing and channelization); streetscaping and landscaping enhancements; decorative, landscape and roadway lighting improvements; and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment

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This project is currently under construction with CMA staff supporting Miami Beach staff through construction administration services and on-site field observation through CMA staff RPR services.

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project.

Chen Moore and Associates is the prime consultant and is responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project encompasses approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Additionally, due to existing listed contaminated sites within the proximity of the right of way improvements, environmental coordination including contaminated sites analysis and consideration of the radius of influence was necessary for coordinating dewatering operations. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts



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North Shore Bandshell Park

Improvements. This project consists of proposed improvements to the existing Bandshell Park located east of Collins Avenue between 72nd and 73rd Streets within the City of Miami Beach. The project includes a new walkway connecting the park to the beachwalk at 72nd Street; the widening of the south sidewalk at 73rd Street which will require either the removal or reconfiguration of on-street parking; the demolition of the bus shelter; landscaping, outdoor accent and security lighting; reconfiguration and/or addition of walkways; installation of an electronic marquee; installation of the "Beatles Mandala", a mosaic tile artwork; and new urban elements such as drinking fountains, trash containers and bike racks.

Chen Moore and Associates is providing services including civil engineering, landscape architecture and irrigation design work that includes conceptual drawings for the 72nd Street walkway and 73rd Street sidewalk; design development/final design submittals; estimates of probable construction cost; government permitting (including Miami Beach, PERA – formerly DERM, FDOT, FDEP, and Fish & Wildlife); bidding assistance; and construction administration services.

CARTYARCHITECTURE

CartyArchitecture, LLC is a woman owned Architectural and Interior Design firm located in Coral Gables, Florida. The majority of our experience is for Public clients and many of those projects have been recreational and athletic facilities. Our programming and planning experience includes conducting public meetings, surveys, multiple department staff meetings etc. as may be needed to establish project direction. We are very familiar with producing and permitting phased documents , as will be required for this project.

Judy A. Carty, AIA, LEED® AP, NCARB
Principal

EDUCATION

Master of Architecture
Columbia University - 1992

Bachelor of Design in Architecture University
of Florida - 1988

REGISTRATIONS

State of New York Architect No. 025078, 1995

State of Florida Architect No. 92770, 2005

State of Florida Interior Design No. 5823, 2010

NCARB No. 59359

LEED® Accreditation 2009

PROFESSIONAL BACKGROUND

Prior to starting CartyArchitecture, Judy Carty was a principal at Borrelli + Partners, an Architectural, Planning, Interior Design and Landscape firm with offices in Miami and Orlando. During her eight years as a principal at Borrelli + Partners she was the Architectural Principal In Charge of all of the Miami Projects. Judy takes a hands-on role in managing and overseeing the production of the projects from beginning to end.

As principal-in-charge, Judy has completed many recreational, educational, athletic, airport, commercial and mixed use projects. She has over twenty five years of public project experience in both Miami and New York City.

A significant number of her clients are repeat clients. For Florida Atlantic University she was responsible for Phase I, II and III of the Recreation Center, these projects were completed over a period of five years.

PROJECT EXPERIENCE

YMCA South Dade, Miami, Florida

YMCA Athletic Fields, Miami Gardens, Florida

Moore Park Athletic Facility, Miami, Florida

Joseph Carter Park, Athletic Fields Master
Plan, Ft Lauderdale, Florida

Bandshell Park, City of Miami Beach, Florida

Saratota National Cemetery, Sarasota, Florida

South Florida National Cemetery, Palm Beach
Florida

Florida Atlantic University Recreation Center,
Phases I, II and III, Boca Raton, FL

Broward College Building 50 & 51, Coconut
Creek, Florida

City of Naples Aquatic Center, Naples, Florida

Plantation Preserve Public Golf Course, Club
House & Maintenance Facility, Plantation, FL

Miami Beach Regional Library, & Cultural Arts
Park, City of Miami Beach, Florida

Miramar Town Center Block 4B Mixed Use
Development , Miramar, Florida

PGA National Resort, Convention Center &
Spa Renovations, Palm Beach Gardens,
Florida

Miami International Airport, South Terminal
Expansion, Miami, Florida



Ryan A. Ruskay President

Mr. Ruskay has more than 12 years of extensive experience in the evaluation and management of various state and federal funding programs, obtaining \$90 million dollars in the past nine years. He has worked with a wide range of local governments to find and obtain the funding necessary to make their capital projects a success. His projects consistently place in the top percentages of funding programs on the local, state and federal level. Mr. Ruskay's experience includes obtaining funding for land acquisition, transportation projects, cultural facilities and public safety projects. In addition to assisting local communities throughout the state in obtaining funding for capital projects, Mr. Ruskay and the staff at RMPK Funding have developed Capital Improvement and Strategic Funding Plans for many of their clients.

Beginning his career with the State of Florida, Mr. Ruskay managed such programs as the Florida Recreational Development Assistance Program and the Florida Boating Improvement Program. Besides acting as Project Manager for hundreds of projects across the entire state, he has been actively involved in the evaluation and selection of State and Federal grant applications. This experience, combined with his relationships with many key funding coordinators on the local, state, and federal level, will ensure that the clients of the RMPK Funding have the best opportunity to receive funding.

MUNICIPAL PROJECTS FUNDED

Emergency Facilities
Park Land Acquisition
Park Facilities
Recreation Grants
Social Services
Stormwater Improvements
Sanitary Sewer Systems
Street & Drainage Projects
State Revolving Fund Loans
Cultural Facilities
Historic Preservation
Hurricane Mitigation
Urban Reforestation
Community Development
Block Grants

Activities related to the management of local, state and federal funding programs:

- Florida Recreational Development Assistance Program, Project Manager
- Land and Water Conservation Fund, Program Manager
- Recreational Trails Program, Project Manager
- Florida Boating Improvement Program, Program Manager
- Department of Environmental Protection's Legislative Line Item Program, Project Manger
- Corzo, Castalla, Carballo, Thompson, Salman, P.A., Coral Gables, Florida, Funding Director

EDUCATION

Bachelor of Science, Political Science
Florida State University



Overview

Mr. Fuentes has twelve years of structural engineering experience. During this time, he has been involved in all aspects of a project from design concept through construction administration. He has worked on a variety of project types including educational, healthcare, institutional, municipal and sports facilities.

Holding an architectural engineering degree, Juan has a true appreciation for the artistic vision the architect is creating. He exhausts every option- pushing the envelope to create the landmarks that define a city. His personal philosophy is to provide the soul of a city through the seamless combination of architecture, structure, and vision embodied in Frank Lloyd Wright's Kaufmann Residence.

Mr. Fuentes is able fulfill this philosophy through his intimate knowledge of building materials and construction methods; working meticulously with the architect through all the stages of a project's life cycle. The combination of his real world experience and work ethics forms a perfect complement to our Company Culture.

Education

B.S. Civil Eng., 2000
B.S. Architectural Eng., 2000
University of Miami
Cum Laude

Memberships

American Society of Civil Engineers (ASCE)
American Institute of Steel Construction (AISC)
American Concrete Institute (ACI)
Florida Structural Engineers Association (FSEA)-
So FL Chapter President

Registration

Professional Engineer
Florida # 62426
Structural Engineer
Illinois #081006736
LEED AP BD+C

Project Experience

Deering Estate Weir Glade Rehydration Project, Miami-Dade County, FL – Project Manager for the design of a weir structure located on the Deering Estate, immediately adjacent to a historic rock bridge. The weir consisted of cast-in-place retaining wall with interchangeable wood panels to allow the owner to vary the amount of water impounded behind the structure. The weir was designed to aesthetically blend in with its surrounding environment. Consideration of construction methods and equipment was required due to the lack of access to the weir location and to minimize the damage to the environment from construction activities.

Deerfield Beach Middle School Park, City of Deerfield Beach, Florida – Project engineer responsible for the design of 5 new park buildings that included a 550 sq. ft. pool entry building, 3,200 sq. ft. pool building, 2 story-3,000 sq. ft. baseball pavilion, 2 story-2,300 sq. ft. football pavilion, and 900 sq. ft. picnic shelter.

Miami-Dade Public Schools Continuing Services Contract – Project Manager for special projects consultant contract for miscellaneous structural services.

School District of Palm Beach County Continuing Services Contract – Project engineer responsible for the design and construction documents for Royal Palm Beach High School Auditorium platform repair.

City of Sunny Isles Beach Continuing Structural Services Contract - Project manager for the structural assignments of the continuing services contract. This contract intends to implement the City's comprehensive plan.

Lauderdale Lakes Community Center, Lauderdale Lakes, Florida – Project engineer responsible for the design and preparation of construction documents for the community center. The facility consists of two buildings, a 6,000 square-foot activity building, and a 2,000 square foot athletic center that share an outdoor landscaped plaza.

Warfield Park, Ft. Lauderdale, Florida – Project engineer responsible for the design and preparation of construction documents for the 4,000 square foot community center. The facility had an indoor basketball court which required special attention to the exterior wall and roof design.

Jacobs Aquatic Center, Key Largo, Florida – Project engineer responsible for the construction documents and design of the 2-story building. Project required special attention to detailing to maintain the Key West architecture.

Other Experience

- Lauderdale Manors, City of Ft. Lauderdale
- Vincent Torres Park, City of Lauderdale Lakes
- Driftwood Pool Complex, City of Hollywood
- Carver Ranches Park, City of Ft. Lauderdale
- Riverside Park, City of Coral Springs
- Croissant Park, City of Ft. Lauderdale
- Pierce Park, City of Coral Gables
- Miramar Pool Complex, City of Miramar

I-10 Rest Area, Florida Department of Transportation District II - Project engineer responsible for the design of the additions to existing structures. Project includes picnic shelters and canopies of varying heights. Canopies required the use of augercast pile foundations due to their close proximity to existing structures.

Robert B. Caine, PE, LEED® AP

President / Electrical Engineer

Education

Bachelor of Science in Electrical Engineering, Villanova University

Graduate Studies in Telecommunications, George Washington University

Registration

Professional Engineer - FL and DC

Professional Affiliations

Fort Lauderdale Chamber of Commerce –Trustee

Broward Days

Fort Lauderdale Utility Advisory Committee

Puerto Rico Hotel Association
IESNA (President and formed the PR section 2003)

EV Ready Broward (Committee Chairman 2001)

Florida Engineering Society (FES)

AIA

NSPE

TMACA (President 1988)

IEEE

Madrid Chamber of Commerce,
American Club (Madrid 1990)

Project Caine, Inc.

1948 East Sunrise Blvd.

Suite 1

Fort Lauderdale, FL 33304

Phone: 954.767.8886

Fax: 954.767.9934

E-fax: 954.337.4665

Projects include IE of Project Caine's personnel

Background

Mr. Caine has a wealth of expertise in his field having over 30 years experience in design and construction of sophisticated building systems. As President of Project Caine, Inc., he brings the knowledge of starting and growing branch offices, bringing divisions back to profitability, developing client loyalty, international experience, and polished presentation skills. Understanding the need to establish and nurture his client relationships, Mr. Caine prides himself in being involved from the onset in all of the firm's projects.

Relevant Project Experience includes:

Broward County Continuing Services Contract, Broward County, FL. **Project Caine, Inc.** has been working with Singer Architects and BHA Architectural Consultants on two continuing services contracts with Broward County for the past (2) two years. Projects have included office renovations, escalator upgrades, and an emergency system upgrade to the County Courthouse.

- **Broward County Courthouse Renovation.** Completion Date (actual or estimated): 2009 / Total Cost of Project: \$100,000.00
- **Commissioner Ilene Lieberman's Office Renovation.** Completion Date (actual or estimated): 2008 / Total Cost of Project: \$7,000,000.00

Pompano Beach Continuing Services Contract, Pompano Beach, FL. **Project Caine, Inc.** is providing MEP services under this continuing services contract which consists of various miscellaneous engineering projects. Projects under this contract to date have included:

- **Pompano Beach Pumping Stations #65 and #81:** The projects consisted of upgrading of existing Pumping Stations #65 and #81 for the City of Pompano Beach. This included upgrading the electrical service to the pumps and incorporating a SCADA telemetry system as well as the following:
 - Site Visit, Data Collection & Review
 - Provide electrical plans and details for wiring and pump control devices including the incorporation of SCADA telemetry equipment.
 - Bid and Award assistance Services
 - Limited Construction Administration Services
 - Electrical design for the connection of a new portable generator
- **Pompano Beach Marina:** The project consisted of providing the design to remove and then replace the existing electrical, water and fire protection work in the new sea wall for 18 docks located at the Hillsboro Inlet in city of Pompano Beach FL. It was necessary to obtain the services of another firm to locate all the Underground Utilities in the affected area. The electrical service for 18 docks ran through the affected area and also had to be removed and replaced.

Fort Lauderdale Airport Continuing Services Contract, Fort Lauderdale, FL. As part of the Parson's team for the continuing services contract at the airport for construction management, **Project Caine, Inc.** provided MEP services on numerous projects.



FAU Continuing Engineering Services Contract, Boca Raton, FL. **Project Caine, Inc.** provided MEP services on numerous small renovation projects such as offices, laboratories, gymnasiums, lighting studies, lightning protection studies and design, fire alarm systems, etc... Projects to date furnished under this contract:

- **FAU 15 Kv Electrical Feeder**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$200,000.00
- **FAU Library Elevator Upgrade**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$500,000.00
- **FAU Lightning Protection Design**. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$100,000.00
- **FAU Walkway Lighting Study**. Completion Date (actual or estimated): 2007 / Total Cost of Project: \$100,000.00

Project Caine, Inc. was recently awarded a second continuing services contract with FAU to provide MEP services.

FIU Continuing Services Contract, Miami, FL. **Project Caine, Inc.** has been providing services included heating, ventilation, air conditioning, plumbing, fire protection, power distribution, lighting and low voltage systems design on various task orders under this contract that have included: renovations to laboratories, office renovations, gym renovations, upgrading of the fire alarm systems and roof restoration projects due to hurricane damage as a consultant to a Prime. Several projects have included:

- **FIU ECS Lab 162 Renovation**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$200,000
- **FIU Engineering Lab E109**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$250,000
- **FIU Football Stadium**, Miami, FL. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$2,500,000
- **FIU Green Library Minor Renovation**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$50,000
- **FIU Office Renovations**, Miami, FL. Completion Date (actual or estimated): 2007 / Total Cost of Project: \$1,000,000

City of Miami Continuing Services Contract, Miami, FL. Services provided for this contract included: Mechanical, Electrical and Plumbing Engineering services. Parks Related Projects completed under this contract include:

- **Gibson Park Pool Upgrades**, Miami, FL. The project consisted of:
 - Replacement of the existing pool DEP filtration system with a sand filtration system.
 - Installation of an electric pool heater system
 - Modified the pool piping and electrical systems
 - Provided the required code improvements (ventilation, ADA, life safety) to the pump room
- **Miami Solid Waste Locker Room**, Miami, FL. Renovations of existing Locker Rooms. Completed in 2008 for a project cost of \$1,000,000
- **Roberto Clemente Park Building Renovation**, Miami Beach, FL. This project consisted of the renovation of the existing recreation center of approximately 10,000 SF. Renovations and updates included the bathrooms to current ADA codes and mechanical ventilation. The HVAC system of the entire facility was updated as well as the lighting. Project completed in 2007 for a project cost of \$1M.

McFatter School Parking Lot Lighting, Broward County, FL. The project consisted of the Roadway and Parking Lot Lighting for the Renovation of the McFatter Technical Center Truck Driving Range located in Davie, FL. The design provided for the installation of 1000 watt Metal Halide fixtures mounted on 30' poles. The project included point by point foot candle calculations.

Pioneer Park Lighting, Stuart, FL. New park lighting for a construction cost of \$100,000

Hallandale Field Lighting, Hallandale, FL. This project was for the lighting design of the ball field at the Hallandale High School. The project included point by point foot candle calculations.

Ocean Front Park Lighting, City of Boynton Beach, FL. New lighting for a construction cost of \$100,000.

Hallandale Parking and Bus Loop Lighting, Hallandale, FL. This project consisted of the Renovation of the Hallandale Adult Center Parking Area. We provided the electrical engineering for the design of the new parking lot and road way lighting.

Peter Worthy, PE

Mechanical Designer

Education

Yale University, B.E. Mechanical Engineering
Yale University, B.S. Industrial Administration

Registrations

Professional Engineer, New Jersey
Professional Engineer, Florida
Professional Engineer, Virginia

Technical Societies

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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E-fax: 954.337.4665

Projects include IE of Project Caine's personnel

Background:

Experience in mechanical work includes responsibility for design, field supervision and trouble – shooting of numerous industrial and commercial heating, ventilating and air conditioning installations, ranging from minimum size of 50 tons to installations over 2,000 tons. Other systems include constant temperature – humidity rooms, low temperature rooms and freezers, low temperature rooms, dust collections systems, high pressure piping systems, service piping, process piping and plumbing

Mr. Worthy's background as a test and balance engineer as well as design engineer has led to forensic engineering experience as expert witness for both plaintiff and defense attorneys. Areas of litigation have included piping system corrosion, high humidity's, mold and mildew, pumping deficiencies, condensation and inadequate HVAC capacities. As test and balance consultant for Broward County School System, much work has been done in solving poor IAQ schools, both inadequate ventilation and mold and mildew.

Experience:

FAU Continuing Engineering Services Contract, Boca Raton, FL. **Project Caine, Inc.** provided MEP services on numerous small renovation projects such as offices, laboratories, gymnasiums, lighting studies, lightning protection studies and design, fire alarm systems, etc... Projects to date furnished under this contract:

- **FAU 15 Kv Electrical Feeder.** Completion Date (actual or estimated): 2009 / Total Cost of Project: \$200,000.00
- **FAU Library Elevator Upgrade.** Completion Date (actual or estimated): 2009 / Total Cost of Project: \$500,000.00
- **FAU Lightning Protection Design.** Completion Date (actual or estimated): 2008 / Total Cost of Project: \$100,000.00
- **FAU Walkway Lighting Study.** Completion Date (actual or estimated): 2007 / Total Cost of Project: \$100,000.00

Project Caine, Inc. was recently awarded a second continuing services contract with FAU to provide MEP services.

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- **Gibson Park Pool Upgrades**, Miami, FL. The project consisted of:
 - Replacement of the existing pool DEP filtration system with a sand filtration system.
 - Installation of an electric pool heater system
 - Modified the pool piping and electrical systems
 - Provided the required code improvements (ventilation, ADA, life safety) to the pump room
- **Miami Solid Waste Locker Room**, Miami, FL. Renovations of existing Locker Rooms. Completed in 2008 for a project cost of \$1,000,000

FIU Continuing Services Contract, Miami, FL. **Project Caine, Inc.** has been providing services included heating, ventilation, air conditioning, plumbing, fire protection, power distribution, lighting and low voltage systems design on various task orders under this contract that have included: renovations to laboratories, office renovations, gym renovations, upgrading of the fire alarm systems and roof restoration projects due to hurricane damage as a consultant to a Prime. Several projects have included:

- **FIU ECS Lab 162 Renovation**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$200,000
- **FIU Engineering Lab E109**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$250,000
- **FIU Football Stadium**, Miami, FL. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$2,500,000
- **FIU Green Library Minor Renovation**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$50,000
- **FIU Office Renovations**, Miami, FL. Completion Date (actual or estimated): 2007 / Total Cost of Project: \$1,000,000

Pompano Beach Continuing Services Contract, Pompano Beach, FL. **Project Caine, Inc.** is providing MEP services under this continuing services contract which consists of various miscellaneous engineering projects. Projects under this contract to date have included:

- **Pompano Beach Pumping Stations #65 and 81**: The projects consisted of upgrading of existing Pumping Stations #65 and #81 for the City of Pompano Beach. This included upgrading the electrical service to the pumps and incorporating a SCADA telemetry system as well as the following:
 - Site Visit, Data Collection & Review
 - Provide electrical plans and details for wiring and pump control devices including the incorporation of SCADA telemetry equipment.
 - Bid and Award assistance Services
 - Limited Construction Administration Services
 - Electrical design for the connection of a new portable generator
- **Pompano Beach Marina**: The project consisted of providing the design to remove and then replace the existing electrical, water and fire protection work in the new sea wall for 18 docks located at the Hillsboro Inlet in city of Pompano Beach FL. It was necessary to obtain the services of another firm to locate all the Underground Utilities in the affected area. The electrical service for 18 docks ran through the affected area and also had to be removed and replaced.

Broward County Continuing Services Contract, Broward County, FL. **Project Caine, Inc.** has been working with Singer Architects and BHA Architectural Consultants on two continuing services contracts with Broward County for the past (2) two years. Projects have included office renovations, escalator upgrades, and an emergency system upgrade to the County Courthouse.

- **Broward County Courthouse Renovation**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$100,000.00
- **Commissioner Ilene Lieberman's Office Renovation**. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$7,000,000.00

Jackie Gleason Restroom, Lauderhill, FL. This project consisted of a new 1-story 800 SF. Restroom project. The building consisted of men's and women's bathrooms. The Electrical design included lighting and power. Mechanical design included ventilating and plumbing systems.

Sunny Isles Pier, Sunny Isles, FL. The project consisted of the lighting design and plumbing design for the renovation of the Sunny Isles Fishing Pier which is about 635' long. A new restaurant was added to the pier as well as a fish cleaning area. The restaurant is a white vanilla box with roof top AC units which was sized and selected.

Tom Lund, CIPE

Plumbing / Fire Protection Engineer

Education

Certified in Plumbing Engineering

Professional Affiliations

American Society of Plumbing Engineers

Background

Mr. Lund has over 27 years of professional experience. His diverse project portfolio includes educational facilities, medical facilities, office buildings, senior living facilities, airports, courthouses, and hospitality buildings.

Experience

City of Miami Continuing Services Contract, Miami, FL. Services provided for this contract included: Mechanical, Electrical and Plumbing Engineering services. Parks Related Projects completed under this contract include:

- **Gibson Park Pool Upgrades**, Miami, FL. The project consisted of:
 - Replacement of the existing pool DEP filtration system with a sand filtration system.
 - Installation of an electric pool heater system
 - Modified the pool piping and electrical systems
 - Provided the required code improvements (ventilation, ADA, life safety) to the pump room
- **Miami Solid Waste Locker Room**, Miami, FL. Renovations of existing Locker Rooms. Completed in 2008 for a project cost of \$1,000,000

Pompano Beach Continuing Services Contract, Pompano Beach, FL. **Project Caine, Inc.** is providing MEP services under this continuing services contract which consists of various miscellaneous engineering projects. Projects under this contract to date have included:

- **Pompano Beach Pumping Stations #65 and 81**: The projects consisted of upgrading of existing Pumping Stations #65 and #81 for the City of Pompano Beach. This included upgrading the electrical service to the pumps and incorporating a SCADA telemetry system as well as the following:
 - Site Visit, Data Collection & Review
 - Provide electrical plans and details for wiring and pump control devices including the incorporation of SCADA telemetry equipment.
 - Bid and Award assistance Services
 - Limited Construction Administration Services
 - Electrical design for the connection of a new portable generator
- **Pompano Beach Marina**: The project consisted of providing the design to remove and then replace the existing electrical, water and fire protection work in the new sea wall for 18 docks located at the Hillsboro Inlet in city of Pompano Beach FL. It was necessary to obtain the services of another firm to locate all the Underground Utilities in the affected area. The electrical service for 18 docks ran through the affected area and also had to be removed and replaced.

Broward County Continuing Services Contract, Broward County, FL. **Project Caine, Inc.** has been working with Singer Architects and BHA Architectural Consultants on two continuing services contracts with Broward County for the past (2) two years. Projects have included office renovations, escalator upgrades, and an emergency system upgrade to the County Courthouse.

- **Broward County Courthouse Renovation**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$100,000.00
- **Commissioner Ilene Lieberman's Office Renovation**. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$7,000,000.00

Project Caine, Inc.
 1948 East Sunrise Blvd.
 Suite 1
 Fort Lauderdale, FL 33304
Phone: 954.767.8886
Fax: 954.767.9934
E-fax: 954.337.4665

Projects include IE of Project Caine's personnel

FIU Continuing Services Contract, Miami, FL. **Project Caine, Inc.** has been providing services included heating, ventilation, air conditioning, plumbing, fire protection, power distribution, lighting and low voltage systems design on various task orders under this contract that have included: renovations to laboratories, office renovations, gym renovations, upgrading of the fire alarm systems and roof restoration projects due to hurricane damage as a consultant to a Prime. Several projects have included:

- **FIU ECS Lab 162 Renovation**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$200,000
- **FIU Engineering Lab E109**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$250,000
- **FIU Football Stadium**, Miami, FL. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$2,500,000
- **FIU Green Library Minor Renovation**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$50,000
- **FIU Office Renovations**, Miami, FL. Completion Date (actual or estimated): 2007 / Total Cost of Project: \$1,000,000

FAU Continuing Engineering Services Contract, Boca Raton, FL. **Project Caine, Inc.** provided MEP services on numerous small renovation projects such as offices, laboratories, gymnasiums, lighting studies, lightning protection studies and design, fire alarm systems, etc... Projects to date furnished under this contract:

- **FAU 15 Kv Electrical Feeder**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$200,000.00
- **FAU Library Elevator Upgrade**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$500,000.00
- **FAU Lightning Protection Design**. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$100,000.00
- **FAU Walkway Lighting Study**. Completion Date (actual or estimated): 2007 / Total Cost of Project: \$100,000.00

Project Caine, Inc. was recently awarded a second continuing services contract with FAU to provide MEP services.

Granville Community Center. The project was a study to determine the extent and budget for the renovation of the Granville condominium. We visited the site, took pictures and wrote a report. The report recommended replacement of most of the roof top AC units. Some newer units were recommended to be re-used. The electrical and plumbing systems were recommended to be re-used.

Jackie Gleason Restroom, Lauderhill, FL. This project consisted of a new 1-story 800 SF. Restroom project. The building consisted of men's and women's bathrooms. The Electrical design included lighting and power. Mechanical design included ventilating and plumbing systems.

Sunny Isles Pier, Sunny Isles, FL. The project consisted of the lighting design and plumbing design for the renovation of the Sunny Isles Fishing Pier which is about 635' long. A new restaurant was added to the pier as well as a fish cleaning area. The restaurant is a white vanilla box with roof top AC units which was sized and selected.

Victoria N. Willis

Electrical Designer

Education

GMI Engineering & Management
Institute

Professional Affiliations

IEEE, Computer Society, 2001

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Suite 1
Fort Lauderdale, FL 33304
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Fax: 954.767.9934
E-fax: 954.337.4665

*Projects include IE of Project Caine's
personnel*

Background:

Ms Willis has over 15 years experience designing electrical, lighting, security, and voice and data systems for various facilities such as: residential, healthcare, university, airport and ports.

Relevant Project Experience includes:

Ocean Front Park Lighting, City of Boynton Beach, FL. New lighting for a construction cost of

Broward County Continuing Services Contract, Broward County, FL. **Project Caine, Inc.** has been working with Singer Architects and BHA Architectural Consultants on two continuing services contracts with Broward County for the past (2) two years. Projects have included office renovations, escalator upgrades, and an emergency system upgrade to the County Courthouse.

- **Broward County Courthouse Renovation.** Completion Date (actual or estimated): 2009 / Total Cost of Project: \$100,000.00
- **Commissioner Ilene Lieberman's Office Renovation.** Completion Date (actual or estimated): 2008 / Total Cost of Project: \$7,000,000.00

McFatter School Parking Lot Lighting, Broward County, FL. The project consisted of the Roadway and Parking Lot Lighting for the Renovation of the McFatter Technical Center Truck Driving Range located in Davie, FL. The design provided for the installation of 1000 watt Metal Halide fixtures mounted on 30' poles. The project included point by point foot candle calculations.

Pompano Beach Continuing Services Contract, Pompano Beach, FL. **Project Caine, Inc.** is providing MEP services under this continuing services contract which consists of various miscellaneous engineering projects. Projects under this contract to date have included:

- **Pompano Beach Pumping Stations #65 and 81:** The projects consisted of upgrading of existing Pumping Stations #65 and #81 for the City of Pompano Beach. This included upgrading the electrical service to the pumps and incorporating a SCADA telemetry system as well as the following:
 - Site Visit, Data Collection & Review
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 - Electrical design for the connection of a new portable generator
- **Pompano Beach Marina:** The project consisted of providing the design to remove and then replace the existing electrical, water and fire protection work in the new sea wall for 18 docks located at the Hillsboro Inlet in city of Pompano Beach FL. It was necessary to obtain the services of another firm to locate all the Underground Utilities in the affected area. The electrical service for 18 docks ran through the affected area and also had to be removed and replaced.

Fort Lauderdale Airport Continuing Services Contract, Fort Lauderdale, FL. As part of the Parson's team for the continuing services contract at the airport for construction management, **Project Caine, Inc.** provided MEP services on numerous projects.

City of Miami Continuing Services Contract, Miami, FL. Services provided for this contract included: Mechanical, Electrical and Plumbing Engineering services. Parks Related Projects completed under this contract include:

- **Gibson Park Pool Upgrades**, Miami, FL. The project consisted of:
 - Replacement of the existing pool DEP filtration system with a sand filtration system.
 - Installation of an electric pool heater system
 - Modified the pool piping and electrical systems
 - Provided the required code improvements (ventilation, ADA, life safety) to the pump room
- **Miami Solid Waste Locker Room**, Miami, FL. Renovations of existing Locker Rooms. Completed in 2008 for a project cost of \$1,000,000
- **Roberto Clemente Park Building Renovation**, Miami Beach, FL. This project consisted of the renovation of the existing recreation center of approximately 10,000 SF. Renovations and updates included the bathrooms to current ADA codes and mechanical ventilation. The HVAC system of the entire facility was updated as well as the lighting. Project completed in 2007 for a project cost of \$1M.

FIU Continuing Services Contract, Miami, FL. **Project Caine, Inc.** has been providing services included heating, ventilation, air conditioning, plumbing, fire protection, power distribution, lighting and low voltage systems design on various task orders under this contract that have included: renovations to laboratories, office renovations, gym renovations, upgrading of the fire alarm systems and roof restoration projects due to hurricane damage as a consultant to a Prime. Several projects have included:

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- **FIU Engineering Lab E109**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$250,000
- **FIU Football Stadium**, Miami, FL. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$2,500,000
- **FIU Green Library Minor Renovation**, Miami, FL. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$50,000
- **FIU Office Renovations**, Miami, FL. Completion Date (actual or estimated): 2007 / Total Cost of Project: \$1,000,000

Pioneer Park Lighting, Stuart, FL. New park lighting for a construction cost of \$100,000

Hallandale Field Lighting, Hallandale, FL. This project was for the lighting design of the ball field at the Hallandale High School. The project included point by point foot candle calculations.

Westwind Community Center, Fort Lauderdale, FL. New 6,000 SF Community Center which included meeting rooms, gym, game room, offices and bathrooms. The electrical design included lighting, site lighting, power, fire alarm security and communication systems. Mechanical design included heating, ventilating, air conditioning and plumbing systems.

Hallandale Parking and Bus Loop Lighting, Hallandale, FL. This project consisted of the Renovation of the Hallandale Adult Center Parking Area. We provided the electrical engineering for the design of the new parking lot and road way lighting.

FAU Continuing Engineering Services Contract, Boca Raton, FL. **Project Caine, Inc.** provided MEP services on numerous small renovation projects such as offices, laboratories, gymnasiums, lighting studies, lightning protection studies and design, fire alarm systems, etc... Projects to date furnished under this contract:

- **FAU 15 Kv Electrical Feeder**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$200,000.00
- **FAU Library Elevator Upgrade**. Completion Date (actual or estimated): 2009 / Total Cost of Project: \$500,000.00
- **FAU Lightning Protection Design**. Completion Date (actual or estimated): 2008 / Total Cost of Project: \$100,000.00
- **FAU Walkway Lighting Study**. Completion Date (actual or estimated): 2007 / Total Cost of Project: \$100,000.00

Project Caine, Inc. was recently awarded a second continuing services contract with FAU to provide MEP services.

Sunny Isles Pier, Sunny Isles, FL. The project consisted of the lighting design and plumbing design for the renovation of the Sunny Isles Fishing Pier which is about 635' long. A new white vanilla box restaurant was added to the pier as well as a fish cleaning area. Completion Date: 2009. Total Project Cost: \$400,000

Richard C. Wohlfarth, P.E.

Principal/ Director of Engineering

FORMAL EDUCATION:

University of Florida,
Gainesville, Florida

Bachelor of Science,
Civil Engineering

PROFESSIONAL REGISTRATIONS:

Registered Engineer-
State of Florida #50858

Registered Building Inspector-
State of Florida BN #3580

SBCCI #6528

ACI Level 1 #991175

UBCI

PROFESSIONAL AFFILIATIONS:

Florida Engineering Society
*Past Chapter President

National Society of
Professional Engineers

REFERENCES:

Carmo Engineering
228 East Ocean Avenue
Lantana, Florida 33462
Mr. Dave Carmo
561-586-1111

Calvin Giordano & Assoc.
1800 Eller Drive, Suite 600
Ft. Lauderdale, Florida 33316
Mr. Don Windham
954-921-7781

Village of Wellington
14000 Greenbriar Boulevard
Wellington, Florida 33414
Mr. Dennis Flaherty
561-791-4142

PROFESSIONAL EXPERIENCE:

Mr. Wohlfarth, P.E. is the Director of the Engineering Department which includes professional and technical personnel. He also has overall responsibility for the Special Inspection, Construction Materials Testing and Geotechnical Engineering Divisions where he directs training, quality system review and personnel evaluations. His responsibilities include report review, signing and sealing geotechnical engineering, structural inspection and laboratory testing reports for the company, providing contract negotiation and administration, budget estimating and project management.

Mr. Wohlfarth has 23 years of experience (16 with NEF) in various aspects of geotechnical engineering which include determining feasibility of site development, foundation design analysis and recommendations, providing engineering evaluation for bridge and roadway construction, pavement design for roadways, roadway subgrade stabilization by geotextiles and other means, design of shoring systems for utility trenches and other deep excavations, dewatering methodology for trench and other excavations and backfill procedures, setting up and monitoring pile load tests, and providing value engineering for foundations.

Mr. Wohlfarth served as Project Engineer for the FDOT Broward Boulevard/ I-95 flyover ramps and access improvements to the Tri-Rail system, which included three new bridges. Additional project experience includes being the Project Engineer for the FDOT roadway widening and Turnpike improvements at Tamiami Trail. This particular project included three new bridges and over three miles of roadway improvements.

PROJECT EXPERIENCE:

- Broward County Commerce Center, Dania Beach- Provided geotechnical exploration/engineering, construction materials testing and inspection services
- Dania Beach Library- Provided geotechnical exploration/engineering for the construction of a single story 10,000 SF library
- Broward College, All Campuses - numerous buildings including the Main Administrative Building and University Housing, all campuses, Broward County
- City of Hollywood: multiple ongoing projects, including Decorative Wall along Boardwalk, Surf Road water/ sewer lines, bus shelters, Public Works Facility
- Various projects for the Broward County Board of Commissioners- Qualification Based Contract (since 1987)- Environmental assessments, geotechnical exploration/engineering, material testing, structural inspections
 - 2010- Edgar P. Mills Multi-Purpose Center and Parking Garage, Tobacco Education Center, Sanders Park and Sample Road Infrastructure Improvements
 - Various roadway expansions/ improvements, widening, libraries, parks and recreational facilities, W/WTPs, administration buildings, drainage evaluations, parking lots, Fort Lauderdale Hollywood Airport expansion programs

Christopher Gworek, P.E.

Senior Project Engineer

FORMAL EDUCATION:

Clarkson University,
Potsdam, New York

Studied towards a Master
of Engineering Degree-
Wastewater Treatment
and Pollution Control

Bachelor of Science-Civil-
Environmental
Engineering

PROFESSIONAL REGISTRATIONS:

Professional Engineer
State of Florida #69447

ACI Concrete Field
Testing Level 1

PROFESSIONAL AFFILIATIONS:

Florida Engineering
Society-
Broward Chapter

American Society of Civil
Engineers (ASCE)

REFERENCES:

SKANSKA
1401 NW 7th Avenue
Boca Raton, FL 33486
Ms. Nicole Heran, 954-
981-0153

C3TS
21301 Powerline Road
Boca Raton, Fl. 33433
Mr. Terry Glunt, 561-487-
3379

PROFESSIONAL EXPERIENCE:

Mr. Gworek serves as a Project Manager/ Engineer. Mr. Gworek has 11 years of experience (with NEF) in preliminary site studies, geotechnical explorations to determine site preparation, feasibility studies for land development, foundation design analysis and recommendations, supervision and training of drill crews, workload analysis, observation of piling installations, pile load tests, classification of in-situ soils, and field/laboratory materials testing. Mr. Gworek's experience includes construction layout, preparing surveys and as-builts for approval from clients, contractors and the county, collection of field data, layout of structures, buildings and roads and ensuring quality of work being performed in the field by maintaining correspondence between the office and the contractor.

Mr. Gworek obtained his formal education at Clarkson University in Potsdam, New York. While preparing for his Master's Degree, his studies focused on hydraulics (pipe flow and open channel flow), hydrology (study of storm water runoff), water treatment plants (WTP) and waste water treatment (WWTP) plant building and designing, dam design, water chemistry and microbiology. He was a member of a project design team (extra-curricular team) who placed first in competition for their design of a groundwater treatment system for the purpose of treating contaminated ground water flowing into a river system.

Relevant project experience includes design of flexible (asphalt) and/or rigid (concrete) pavement design for the following projects: Auto Nation project in Pembroke Pines, Sunset Strip for the City of Sunrise, Avenues Avenue Extension, and multiple roadways in Hendry County for the Seminole Tribal Authority and for Publix Supermarkets.

PROJECT EXPERIENCE:

- City of Dania Beach Stormwater Pipe Installation- Performed geotechnical exploration/engineering services
- City of Dania Beach Nanofiltration Water Treatment Plant- Performed geotechnical exploration/engineering and construction materials testing services for the construction of a new single story 6,000 SF metal membrane processing building and associated asphalt paved parking and drive areas
- Brauser Academy, Dania Beach- Performed geotechnical exploration/engineering, construction materials testing and inspection services for a 2-Story 168,000 SF addition
- Various projects for the Broward County Board of Commissioners- Qualification Based Contract (since 1986)- Environmental assessments, geotechnical exploration/engineering, material testing, and structural inspections
- Nettles Island, 9801 South Ocean Drive- Monitored vibration during sheet pile installation for seawall renovations
- Drainage Evaluations: Shoppes at Vero Beach- Central Broward Regional Park, Davie Travel Center, Welleby and Eagle Ridge Elementary Schools, dozens of private residences though South Florida and Treasure Coast

Paul Catledge, PE

Senior Project Engineer, Miami Office/ Laboratory

FORMAL EDUCATION:

Louisiana State University
Bachelor of Science - Civil
Engineering

PROFESSIONAL REGISTRATIONS:

Registered Professional
Engineer,
State of Florida #68448

Troxler Nuclear Gauge

OSHA Safety Hazardous
Materials Certificate

PROFESSIONAL AFFILIATIONS:

Florida Engineering Society

American Society of Civil
Engineers

REFERENCES:

Miami-Dade Aviation
Department, Environmental
Engineering Division
P.O. Box 592075
Miami, Florida 33139
Mr. Joaquin Menendez
305- 876-0799

Miami Children's Hospital
Construction Management
3100 SW 62nd Avenue
Miami, Florida
Ms. Juliana Yepes
786-624-5886

W. F. McCain & Associates
1171 19th Street
Vero Beach, Florida 32961
Mr. Bill McCain
772-770-1093

PROFESSIONAL EXPERIENCE:

Mr. Catledge serves as a Senior Project Engineer for the Miami Dade County office/laboratory location of Nutting Engineers of Florida, Inc. Mr. Catledge has six years experience in the civil/geotechnical engineering field. His responsibilities include preliminary site studies, geotechnical explorations to determine site preparation, feasibility studies for land development, foundation design analysis and recommendations, supervision and training of drill crews, workload analysis, observation of piling installations, pile load tests, classification of in-situ soils and field/laboratory materials testing.

Mr. Catledge's experience includes construction layout, collection of field data, layout of structures, buildings and roads and ensuring quality of work being performed in the field by maintaining correspondence between the office and the contractor. He has provided supervision and monitored installation of deep foundation piles as well as conducted soil tests and compressive strength testing for many projects throughout Broward, Miami-Dade and Monroe Counties.

Mr. Catledge also serves as project manager for numerous government projects including the Key West Solid Waste Transfer Station, Broward County Board of County Commissioners and Miami-Dade County Public Works and the School Districts of Broward and Miami-Dade Counties.

PROJECT EXPERIENCE:

- Dania Beach Public Safety Building #93- Provided geotechnical monitoring, seismograph, construction materials testing, and special inspection services
- Dania Beach Water Treatment Plant Sludge Thickener- provided geotechnical exploration/engineering for the installation of a 20 feet diameter pre-fabricated metal tank
- Dania Beach Library- Provided geotechnical exploration/engineering for the construction of a single story 10,000 SF building
- City of Dania Beach Wet Well Installation Project- Provided geotechnical exploration/engineering for the installation of wet wells throughout the city
- City of Hollywood- Young Circle Parking & Traffic Improvement Project, Garfield Street Parking Garage, Charnow Park, Dowdy Field, Rotary Park Improvements, Raw Water Piping Floridian, Water Main Replacement Program, Multiple Lift Stations (inc. A-3, A-5, A-8, W-6, W-17, March 2010)
- School Board of Broward County and Miami-Dade County Public Schools
- Various projects for the Miami Dade County Board of Commissioners- Qualification Based Contract (since 2000)- Environmental assessments, geotechnical exploration/engineering, material testing, structural inspection
 - Drainage studies at Amerifirst Park, Zunjik Estates, Sleepy Hollow, Nikis, Sunset Cove, Century garden, Bibiana; Sunny Isles Fire Station #10, Dolphin Station # 68, Cutler Bay Station #34; North Terminal Development Program, MIA Taxiway Settlement Investigations; multiple Park and Recreation projects; multiple W/WTPs



SANDRA WALTERS

President

ACADEMIC BACKGROUND

Masters Degree in Marine Studies, University of Miami, Florida, 1983
Bachelor of Science in Animal Behavior and Marine Biology, University of California, Davis, CA, 1974

SPECIALIZED PROFESSIONAL COMPETENCE

Ms. Walters has 30 years of professional experience in Florida. She is qualified as an Expert Witness in Florida administrative hearings and court proceedings; has conducted and supervised environmental studies, and developed avoidance and mitigation plans, in all South Florida submerged and upland habitats; has successfully permitted projects ranging from single family homes to developments of regional impact, working with all regulatory agencies; has extensive experience in design and implementation of public participation programs and review and development of comprehensive plans; and has represented clients successfully with many agencies and government boards. She is presently serving as chair of the South Florida Regional Planning Council, appointed by governors Bush and Crist; serves on EPA's Water Quality Steering Committee for the Florida Keys; and served from 2000 to 2004 as a Governor's appointee on Florida's Acquisition and Restoration Council, which supervises purchase and management of State conservation lands.

REPRESENTATIVE PROFESSIONAL EXPERIENCE

Principal, Sandra Walters Consultants, Inc., 1996-present Key West and Miami, FL

Provide consulting services to both public and private sector clients in areas of ecological/environmental and land use planning and permitting, including habitat evaluation, mitigation and contamination assessment and remediation; public involvement and outreach; and community and government liaison.

ENVIRONMENTAL STUDIES • PERMITTING • MITIGATION • MONITORING SERVICES

- **Mallory Dock Maintenance Dredge, City of Key West**
Principal in charge for successful acquisition of all permit modifications to add Mallory Dock to scope of Navy Key West Harbor dredging project, including collection of all data on submerged habitats required by agencies, coordination with dredging company and environmental monitoring contractor, acquisition of EPA approval for use of offshore disposal site, provision of Quality Assurance services onboard the dredging vessel, and preparation of all final reports to Navy and permitting agencies. Represented City in Navy agency partnership process for harbor dredge and other environmental issues.
- **City of Key West Stormwater System**
Consultant in charge of bringing City into compliance with ERP requirements for already-completed and future maintenance work of stormwater system, including developing impact assessment and mitigation plan that incorporates 5.6 acres of wetland restoration and enhancement at former Hawk Missile site in eastern Salt Ponds and creation of connection between Riviera Canal and western Salt Ponds to enhance 131 acres of wetlands and cause significant water-quality improvements.
- **Key West Mooring Field Seagrass Monitoring Project**
Conducted seagrass monitoring project at Key West Mooring Field that investigates potential shading impacts from boats, including project design, photographic documentation of stations over time, collection of seagrass density and shoot count data, and report preparation including data analysis and final summary report with recommendations.
- **S. Roosevelt Seawall Repair Seagrass Monitoring, Key West**
Supervised assessment and documentation of seagrasses in vicinity of seawall undergoing repairs, including field data collection and photography, update of CAD files delineating seagrass line, measurement of seagrass impacts in project area for mitigation purposes, and report preparation.
- **Smathers Beach Seagrass Mitigation Monitoring, Key West**
Member of team that conducted field monitoring of seagrass mitigation project for City of Key West. Roles included field personnel establishing monitoring sites, collecting required data, supervising surveyor, assisting with preparation of monitoring reports, and providing local liaison with City and base of operation for work.



- **Submerged Habitat Study and Sediment Analysis, Key West Harbor and Vicinity**
Worked with scientists from Florida International University to conduct survey of submerged habitats in and around Key West Harbor. Divers collected field data from 50, randomly selected sites. This data was then collated into maps showing general distribution of habitats in area, and underwater photographs were organized and printed. Data was compared with that collected at other sites throughout Florida Keys, to assess habitat quality in relation to shipping activities in Harbor. Supervise collection of sediment samples in and near harbor following approved DEP protocol, transmit to State certified laboratory for testing for petroleum contamination and RCRA metals, prepare report summarizing findings.
- **City of Key West Navy Base Reuse Plan**
Member of team that evaluated surplus Navy properties in Key West, and developed plan for reuse which addresses local needs and concerns. Primary role—planning and environmental assessments, including SCUBA examination of Mole Pier at Truman Waterfront.
- **Electric Transmission Line Environmental Compliance Monitoring, Florida Keys**
Conducted environmental compliance monitoring of installation of new electric tie-line poles between Big Coppitt Key and Key Haven in wetland and submerged habitats, including confirmation of pre-construction conditions, onsite inspections to assure impacts do not exceed limits established in environmental permits, and long-term monitoring to document post-construction recovery.
- **Jewfish Creek Bridge/US Highway 1 Project, Northern Florida Keys**
Member of design-build team in charge of environmental compliance for final design and construction of 65-foot-high bridge over Jewfish Creek and new roadway from North Key Largo to just south of Dade County line, including training of onsite personnel regarding avoidance of listed species; coordination with agencies for permit modifications; assessment of preconstruction environmental conditions; and continuous work with project engineer and contractor to assure all environmental permit conditions are met during four-year project.
- **Environmental Impact Study, Ft. Lauderdale Airport Runway Extension**
Principal in charge of fulfillment of all NEPA requirements including T&E species impact assessment and wetland delineation, coordination with environmental regulatory agencies, and preparation and processing of environmental permit applications for final, selected alternative. Acquired concurrence from all resource agencies on jurisdictional lines and UMAM scores for all wetlands affected by one or more project alternatives, prepared administrative draft and Draft Environmental Impact Statement, participated in DEIS public hearing, prepared EFH and Biological assessments for National Marine Fisheries Service and U.S. Fish & Wildlife Service, prepared responses to all ecological questions for DEIS and FEIS; assisted with preparation of Final EIS.
- **SR-710 PD&E Study, District 4 FDOT**
Part of consultant team in charge of planning, design and environmental study of 27-mile corridor of B-Line Expressway through Palm Beach and Martin counties. Responsible for wetlands and threatened and endangered species field data collection, assessment of contamination potential in vicinity, and documentation of land use patterns along corridor regarding potential for secondary and cumulative impacts.
- **Stormwater Filter Marsh, City of Naples, Collier County**
Principal in charge of wetland jurisdictional determination, habitat evaluation, and threatened and endangered (T&E) species survey; development of impact assessment and mitigation plan, as needed; and general assistance with preparing and processing environmental resource permit (ERP) applications with DEP and US Army Corps of Engineers (USACE) for creation of filter marsh to provide treatment to stormwater presently being pumped untreated into Naples Bay.
- **Port Everglades Master Plan Update, Broward County**
Principal in charge of all natural systems data collection and analysis and permitting assessments for five-year master plan update.
- **General Environmental Consultant for Florida Keys Overseas Heritage Trail**
In contract with DEP, provide environmental planning services for entire 130-mile linear park throughout Florida Keys, including NEPA review and documentation for permitting of segments and bridge crossings.
- **Residential Redevelopment Project in Marathon, Florida Keys**
Serving as project manager for all aspects of environmental planning and ERPs for 92-unit redevelopment project in Marathon called Marlin Bay Yacht Club, including supervision of all field data collection and preparation of benthic assessments and avoidance and minimization plans, supervision of ERP application





Jonathan Mugmon

Associate Principal, Wayfinding

Education

Master of Fine Arts, Graphic Design, East Carolina University, Greenville, NC, 1997

Bachelor of Fine Arts, Graphic Design, University of Central Florida, Orlando, FL, 1995

Professional Registrations

SEGD Society of Environmental Graphic Design

AIGA American Institute of Graphic Artists

ESRI GIS Certification

Publications + Technical Papers

Society of Environmental Graphic Design Conference, 2010

National Parks & Recreation Association National Conference, 2009

ASLA – Florida State Conference, 2006

Arabian Business Magazine, May 2008

National Scenic Byway Conference, 2007

Professional History

2009 – Present

Design + Planning at AECOM

Director of Wayfinding/Environmental Graphics

1998 – 2009

Glattig Jackson Kercher Anglin, Inc.

Director of Wayfinding/Environmental Graphics

1997 – 1998

School of Art, University of Central Florida

Associate Professor

Mr. Mugmon has over twelve years experience in development of wayfinding systems, interpretive planning and community branding. AECOM understands the need to create an environment that engages the public. Our wayfinding systems and environmental graphics will engage, direct, inform and enhance one's experience in a manner that reinforces the aesthetics and goals of your project. We will create a design that communicates direct and effective information for circulation and wayfinding and enhances placemaking.

Project Experience

Wayfinding

- Orlando Health Wayfinding, Downtown Orlando, FL
- City of Deerfield Beach, FL
- City of Jacksonville Beach, FL
- Yas Mall, Abu Dhabi, United Arab Emirate
- Yas Island, Abu Dhabi, United Arab Emirate
- Port Townsend, WA
- Cape Girardeau, MO
- Town of Bluffton, SC
- North Miami Beach, FL

- J Boatswains Beach, Grand Cayman
- Pedro St. James, Grand Cayman
- National Scenic and Historic Highway - A1A
- Lancaster County, PA
- University of Central Florida, FL
- Saint Leo University, Tampa, FL
- Florida Southern College, Lakeland, FL
- City of Orlando, FL
- City of Winter Garden, FL
- City of Bartow, FL
- City of Lakeland, FL
- City of North Miami Beach, FL
- City of Bradenton, FL
- City of Kissimmee, FL
- Miami-Dade County Parks & Trails, FL
- Walton County, FL
- US17 State Scenic Highway
- Barnett Family Park, Lakeland, FL
- Orange County Convention Center, FL
- Baldwin Park Neighborhood, Orlando, FL
- Fort Fraser Trail, Polk County, FL
- Historic Bok Sanctuary, Lake Wales, FL
- Indian Riverside Park, Volusia County, FL
- Alys Beach, FL

Interpretive Planning

- Jekyll Island, GA
- Miami Circle - National Historic Site
- Pedro St. James, Grand Cayman (NHS)
- Riverwalk, Sanford, FL
- Fort Fraser Trail, Polk County, FL
- Barnett Family Park, Lakeland, FL
- National Scenic and Historic Highway A1A, St. Johns County, FL
- William Bartram Scenic Highway
- Highway 30A - Timpochee Trail

Branding

- Biscayne Everglades Trail
- City of Eustis, FL
- City of Bradenton, FL
- Fort Fraser Trail
- City of Lakeland, FL
- Ginn – Reunion
- Borough of Mount Joy, PA
- Indian River Lagoon National Scenic Byway, FL
- Ocean Embassy, Panama



Susan L. Mah
Graphic Artist/ Environmental Graphics
Wayfinding

Education

Bachelor of Fine Arts, Graphic Design, University of Central Florida, 1996

Awards + Honors

Florida Planning and Zoning Association's 2011 Outstanding Redevelopment Study Award for the City of Ocoee CRA Target Areas Special Development Plan
 Most Original Design – Corporate 5K T-shirt Design Contest, IOA, 2008
 1st Annual Downtown Holiday Display Contest, City of Orlando, 2007

Professional History

2010 – Present
 Design + Planning at AECOM
 Graphic Artist

2006 – 2010
 Glattig Jackson Kercher Anglin, Inc.
 Graphic Artist

1997 – 2006
 Dyer, Riddle, Mills, & Precourt, Inc.
 Assistant Marketing Manager/Corporate Graphic Designer

1994 – 1997
 Siemens Stormberg Carlson
 Marketing Assistant/Graphic Artist

Creative Experience

Book & Brochure Design/Layout
 Branding
 Card Design
 Client Gift Packages
 Stationary and Forms
 Invitations
 Logos
 Mailing Campaigns
 Marketing Proposals
 Media Kits
 Newsletters
 Office & Party Decorations
 Photo Shoot Coordination
 Point of Purchase Displays
 Presentations
 Print Advertisements
 Promotional Flyers
 Shirt Designs
 Signage/ Vehicle Signage
 Tradeshow Display Design
 Various Promotional Items
 Web Design/Direction
 Window Display

Ms. Mah is a talented graphic artist and art director with experience in corporate identity, packaging, print collateral, and advertising. She is highly motivated, creative, and versatile as well as comfortable with information architecture, project management and business development. Through leadership, communication, and initiative, Ms. Mah is accomplished at incorporating the desires of the client with a superior design solution. She places special emphasis on conceptual design and communication goals as well as high attention to detail. Through collaborative and interpersonal skills she is a dynamic team player with exceptional interpersonal skills in working with team members and subordinates. Her inventive creativity is evident in her extensive amount of layout and design work. She has a passion for designing products that satisfy the client and directly relate to the target market. In a marketing capacity, Ms. Mah coordinates, assembles, and produces various marketing materials some of which include letters of interest, requests for proposals, and professional organization presentations. These marketing efforts require reading and understanding response packages as well as assimilating appropriate information into a clear and concise manner.

Project Experience

- City of Ormond Beach, FL
- Lincoln Heritage National Scenic Byway Wayfinding, KY
- Ormond Scenic Loop & Trail Wayfinding, Ormond Beach, FL
- Journey Through Hallowed Ground Scenic Byway Wayfinding, PA, MD, and VA
- Downtown Ephrata Wayfinding, Ephrata, PA
- Orange County Convention Center, FL
- Jekyll Island Interpretive Signage, Jekyll Island, GA
- West Palm Beach Wayfinding, West Palm Beach, FL
- Poarch Creek Master Plan, Poarch, AL
- Ocoee CRA Study, Ocoee, FL
- SmartCharlotte2050, Charlotte County, FL



Suchada Priyakorn Cartolano
Associate, Environmental Graphics
Wayfinding

Education

Bachelor of Science in Mathematics, University of Florida, Gainesville, Florida,
1996

Affiliations

AIGA American Institute of Graphic Artists
SEGD Society for Environmental Graphics

Professional History

2009 – Present
Design + Planning at AECOM
Environmental Graphic Designer/Wayfinding

2004 – 2009
Glatting Jackson Kercher Anglin, Inc.
Environmental Graphic Designer/Wayfinding

2001 – 2004
Octavo Design & Production, Inc.
Graphic Designer/Prepress Operator

1997 – 1998
Renaissance Printing
Graphic Designer

Awards + Honors

2011 Outstanding Achievement from the American Planning Association and
the Planning Association of Washington.

Ms. Cartolano specializes in wayfinding, environmental graphics, image and logo development, and interpretive art. Her creative approach is based on design principles, from concept through implementation. She also has extensive knowledge on fabrication materials and construction methods. Ms. Cartolano's design services support urban environments, public spaces, and nature through placemaking and by enhancing the visual landscape. She is also a seasoned graphic designer with over ten years of experience in corporate identity, packaging, magazine and book layout, marketing collateral and advertising. Her talents have played an important role in the success of several dynamic projects.

Project Experience

- Orlando Health Wayfinding, Downtown Orlando, FL
- City of West Palm Beach, FL
- City of Sanford Interpretive Signage, FL
- Port Angeles, WA
- Yas Island Wayfinding, Abu Dhabi, UAE
- Orange County Convention Center, FL
- Kissimmee Lakefront Park, Kissimmee, FL
- City of Kissimmee Downtown Wayfinding System, FL
- William Bartram Scenic Highway, St. Johns County, FL
- City of Cape Girardeau, MO
- Valencia Community College Interpretive Signage, Orlando, FL
- City of Mount Joy, PA
- Florida Southern College, Lakeland, FL

4. Relevant Experience of the Firm

Miami Beach - South Pointe Phase III/IV/V - ROW Improvement Project, Miami Beach, Florida

Chen Moore and Associates is the prime consultant responsible for providing surveying, planning, geotechnical investigation, design, permitting, preparation of construction documents, bid and award and construction engineering and inspection services for infrastructure improvements within the public right of way areas of the South Pointe III/IV/V neighborhood of Miami Beach. The project encompasses



approximately 19,000 LF of ROW infrastructure improvements including water main replacements, stormwater drainage improvements, paving & grading, streetscaping enhancements, landscaping improvements, lighting improvements, and roadway reconstruction. Due to the existing mixed residential and commercial environment of this neighborhood, special design efforts were made to incorporate walkable community elements including meeting all ADA requirements, providing street furniture, providing bicycle paths, upgrading sidewalks, incorporating specialty treatments at crosswalks, landscaping improvements with specialized tree wells to provide a walkable surface and bulb outs to increase pedestrian friendliness and safety. This project requires extensive coordination with the public, adjacent CRAs, historic districts and various regulatory agencies in the form of community design workshops and special outreach meetings to individual special interest groups.

Client

City of Miami Beach
Carla Dixon
777 17th Street
3rd Floor
Miami Beach, FL 33139
(305) 673-7071

Key personnel involved in design phase services

Peter Moore, P.E.
Cristobal Betancourt, RLA
Stefan Bortak
Mike Buick, P.E.
Peter Dueño, P.E.
Joel Brownsey
Felix Godoy
Jason McClair, P.E.
James Barton, P.E.
Oscar Bello, P.E.

Design services fee

\$1,200,000

Construction

Estimate of construction cost: \$9,000,000.00

Contract award amount: \$1,780,000.00

Trans Florida Development

Paul Cusmano

Transflorida Development Corp

13960 SW 144 Ave Rd

Miami, FL 33186

(305) 378-2323



City Center Right of Way and Utility Improvement Project, Miami Beach, Florida

Chen Moore and Associates is the prime consultant responsible for the planning, design, permitting, and construction administration for enhancements within the public right of way areas of Lincoln Road between Washington Avenue and Collins Avenue for the City of Miami Beach. The project included extensive public coordination due to the high profile nature of this segment of Lincoln Road. Unique sidewalk/crosswalk materials and patterns were utilized along with specialized tree wells, a proposed median and extensive landscaping with uplighting to provide a pedestrian friendly environment and distinctive look to this prominent area of the City. In addition to the streetscape elements, new bus stop areas and shelters, stormwater drainage improvements and roadway resurfacing are proposed. The project required extensive coordination with FDOT due to improvements proposed along Collins Avenue (State Road) and the specialized materials specified.

Key personnel involved in design phase services

Peter Moore, P.E.

Cristobal Betancourt, RLA

Stefan Bortak

Mike Buick, P.E.

Peter Dueño, P.E.

Joel Brownsey

Felix Godoy

Jason McClair, P.E.

James Barton, P.E.

Oscar Bello, P.E.

Jennifer Smith, P.E.

Safiya Brea, P.E.



Design Services Fee

\$2,580,000.00

Client

City of Miami Beach
Carla Dixon
777 17th Street
3rd Floor
Miami Beach, FL 33139
(305) 673-7071

Construction

Estimate of construction cost: \$21,200,000
Contract award amount: \$2,000,000
Miguel Vila
MVila & Associates, Inc.
12097 NW 98th Ave
Hialeah, FL 33018
(305) 821-1226



South Beach Parking Lot Wall Replacement and ADA Improvements, Fort Lauderdale, FL

The purpose of this project was to provide the restoration and enhancement of the City-owned 6.5-acre “South Beach” parking lot, located along SR A1A, south of Las Olas Boulevard. The scope of work includes bringing the parking lot into ADA compliance per requirements of consent decree, replacing a deteriorating low profile wall and sidewalk approximately 2100 feet in length, replacing existing lighting with turtle-compliant fixtures, and designing additional landscaping. Chen Moore and Associates prepared the required DRC submittal, which included all required public purpose approvals, as well as a conceptual layout of a new entrance at the southern end of the parking lot. This project was a joint effort between various City departments, including the City of Fort Lauderdale Beach Community Redevelopment Agency and Parking Services.

Key personnel involved in design phase services

Peter Moore, P.E.
Cristobal Betancourt, RLA
Stefan Bortak
Joel Brownsey
Jason McClair, P.E.
Jennifer Smith, P.E.

Design Services Fee

\$198,780



Client

City of Fort Lauderdale
Earl Prizlee, PE
100 N. Andrews Avenue
4th Floor
Fort Lauderdale, FL 33301
(954) 468-1517

Construction Information

Estimate of construction cost: \$3,893,202.00
Contract Award Amount: \$3,007,800.00
MBR Construction
Mike Boss
5057 Northwest 37th Avenue
Fort Lauderdale, FL 33309
(954) 486-8404

Deerfield Beach Main Beach Parking Area Improvements, Deerfield Beach, Florida

Chen Moore and Associates provided conceptual planning to address traffic circulation, landscaping, lighting, parking layout, drainage and existing facility conditions. The conceptual plan has incorporated additional areas for pedestrian use including seating areas and multi-use areas for special events. The project is located in a coastal zone requiring coordination and permitting through the Florida Department of Environmental Protection for work east of the Coastal Construction Control Line (CCCL). There is also a fire station on the site requiring close coordination with the City of Deerfield Beach Fire Department to facilitate emergency response.

Key personnel involved in design phase services

Peter Moore, P.E.
Cristobal Betancourt, RLA
Stefan Bortak
Joel Brownsey
Safiya Brea, P.E.
Jennifer Smith, P.E.

Design Services Fee

\$20,580

Client

City of Deerfield Beach
Keven Klopp
150 NE 2nd Avenue
Deerfield Beach, FL 33441
(954) 480-4222

Construction Information

N/A. Waiting for notice to proceed.



Navy Pedestrian Bridge at Key West's Truman Annex, Key West, Florida

Chen Moore and Associates provided engineering services during design and construction of the navy pedestrian bridge. These activities include technical assistance, shop drawings, submittal review, field observation, and meeting attendance. The purpose of the bridge is to provide Navy personnel access over the proposed road to Fort Zachary Taylor.

The bridge was placed in April 2010 after an eight month hiatus due to railroad artifacts discovered during the excavation of the piers. This pedestrian bridge will ultimately serve as the future gateway to Ft. Zachary State Park in Key West. Chen Moore and Associates provided third party engineering design review and construction engineering observation services.

Key personnel involved in design phase services

Oscar Bello, P.E.

Mike Buick, P.E.

Design Services Fee

\$35,000

Client

City of Key West

Doug Bradshaw

3140 Flagler Avenue

Key West, FL 33040

(305) 809-3792

Construction

Estimate of construction cost: \$1,200,000.00

Contract award amount: unavailable

Matthew J. Shiring, P.E.

Ebsary Foundation Company

2154 Northwest North River Drive

Miami, FL 33125

(305) 325-0530 ext. 108

Coral Springs Planning Services, Coral Springs, Florida

Since 2005, Chen Moore and Associates has served as the City Engineer for Coral Springs. In this role, the firm performs the typical duties of an on staff engineer, including engineering permit review and inspections, development reviews and concurrency evaluations, coordination with other City departments and outside agencies, and a variety of special projects. In this capacity, CMA manages the majority of the non-utility capital projects in the City, including the review for Community Development Block Grant (CDBG) projects involving sidewalk and drainage (NW 44th Court) and fire line improvements in parks (Mullins Park fire hydrant improvements).

Key personnel involved in design phase services

Peter Moore, P.E.

Cristobal Betancourt, RLA

Safiya Brea, P.E.

Jennifer Smith, P.E.

Design Services Fee

\$146,000

Client

City of Coral Springs
Larry Stanearth
9551 West Sample Road
Coral Springs, FL 33065-4182
(954) 344-1014

Construction

N/A

Sunrise Landscape Manual, Sunrise, Florida

The City of Sunrise is burdened with a complex landscape code causing confusion for residents and business owners in the city. The city forester has engaged the services of Chen Moore and Associates to develop a simplified manual that addresses Frequently Asked Questions and provides residents with a road map to identifying their need for permits, suggested plants for their properties, and basic maintenance standards for the survival of their landscapes. CMA is providing all graphics and text for the manual.

Key personnel involved in design phase services

Cristobal Betancourt, RLA

Design Services Fee

\$9,940

Client

City of Sunrise
William Byrnes
1601 NW 136 Avenue, Bldg A
Sunrise, FL 33323
(954) 746-3272

Construction

N/A

Pompano Beach Municipal Golf Course, Pompano Beach, FL

Working as a subconsultant to Greg Norman Golf Course Design, Chen Moore and Associates is providing landscape design documents for the redesign of a public 18 hole golf course operated by the City of Pompano Beach. The design concept includes the removal of numerous exotic invasive plant species to be replaced with native plant species to improve the general environmental health of the property. The design is required to conform with City of Pompano Beach Tree Protection and Mitigation standards.

Key personnel involved in design phase services

Cristobal Betancourt, RLA

Design Services Fee

\$10,000

Client

Greg Norman Golf Course Design Company
Chris Campbell
2041 Vista Parkway Level 2
West Palm Beach, FL 33411
(561) 640-7000

Construction

Estimate of Construction Cost: \$3,264,100

Contract award amount: unavailable

QGS Development, Inc

17502 County Road 672

Lithia, FL 33547

(813) 634-3326

Dixie Highway Improvements, Fort Lauderdale, FL

Chen Moore and Associates is developing a streetscape master plan for Dixie Highway in the Middle River Terrace Neighborhood of Fort Lauderdale, Florida. CMA was contracted by the city to work with the local homeowners association who received a grant to fund the development of a complete streets master plan. The neighborhood was developed prior too many current planning and zoning standards being implemented in the City, as a result, the community has concerns about unsafe conditions for pedestrians and bicyclists do to unregulated land development patterns. CMA is developing the master plan to include pedestrian and bike trails, to narrow the width of the travel ways, and to add hardscape and landscape beautification, including the development of gateway features into the neighborhood. In order to facilitate the master plan, CMA is analyzing the area with regard to current zoning and right of way conditions and conducting field studies at different times of the day to understand on the ground conditions that are affecting resident safety.

Key personnel involved in design phase services

Cristobal Betancourt, RLA

Jeff Houghtaling, RLA

Design Services Fee

\$17,550

Client

City of Fort Lauderdale

Louis LaFauris

100 N. Andrews Avenue, 4th Floor

Fort Lauderdale, FL 33301

(954) 828-6538

Construction

N/A. Design just began.

Florida Atlantic University 600-Bed Freshman Housing, Boca Raton, FL

Chen Moore and Associates is providing landscape architecture services for the FAU's new 600 bed residence hall to be located in the southeast region of the Boca Raton Campus. The building is pursuing LEED silver certification through the USGBC. The program budget is \$41 million and includes the design of a 7 story residence facility, a dining facility, and the creation of a 360 space parking lot. CMA is tasked with developing the site plan which includes volleyball and basketball courts, seating areas, open play areas for impromptu activities, bicycle parking and storage for 225 bicycles, signage, pedestrian circulation, seating walls, decorative paving, pedestrian lighting, landscape, and irrigation design. The project is fast tracked and scheduled for occupancy in August of 2013.

Key personnel involved in design phase services

Cristobal Betancourt, RLA

Jeff Houghtaling, RLA

Stefan Bortak

Design Services Fee

\$82,000

Client

Pierce Goodwin Alexander & Linville
Ian Nestler
791 Park of Commerce Blvd Ste 400
Boca Raton, FL 33487
(561) 640-7000

Construction

N/A. Still in design phase

Mullins Park Pathways, Coral Springs, Florida

Chen Moore and associates developed a master plan for a new pathway system for Mullins Park in the City of Coral Springs. CMA is providing final design and construction administration. The project requires the development of paving, grading, and landscape plans for DRC approval and permitting through the Sunshine Water Control District and SFWMD. The pathways are made of a flexible surface to prevent injuries for pathway users. The layout required that the path be developed sensitively through the park to connect to existing features, such as baseball fields, children's play areas, other existing sports fields and to limit disturbance to existing mature canopy trees.

Key personnel involved in design phase services

Cristobal Betancourt, RLA
Stefan Bortak

Design Services Fee

\$17,000

Client

City of Coral Springs
Rick Engle
9551 West Sample Road
Coral Springs, FL 33065
(954) 345-2110

Construction

N/A. Still in permitting phase.

North Shore Bandshell Park Improvements, Miami Beach, Florida

This project consists of proposed improvements to the existing Bandshell Park located east of Collins Avenue between 72nd and 73rd Streets within the City of Miami Beach. The project includes a new walkway connecting the park to the beachwalk at 72nd Street; the widening of the south sidewalk at 73rd Street which will require either the removal or reconfiguration of on-street parking; the demolition of the bus shelter; landscaping, outdoor accent and security lighting; reconfiguration and/or addition of walkways; installation of an electronic marquee; installation of the "Beatles Mandala", a mosaic tile artwork; and new urban elements such as drinking fountains, trash containers and bike racks.

Chen Moore and Associates is providing services including civil engineering, landscape architecture and irrigation design work that includes conceptual drawings for the 72nd Street walkway and 73rd Street sidewalk; design development/final design submittals; estimates of probable construction cost; government permitting (including Miami Beach, PERA – formerly DERM, FDOT, FDEP, and Fish & Wildlife); bidding assistance; and construction administration services.

Key personnel involved in design phase services

Cristobal Betancourt, RLA
Stefan Bortak
Jose Acosta, P.E.
Peter Dueño, P.E.
Felix Godoy

Design Services Fee

\$44,000

Client

Borrelli + Partners
Judy Carty (now with Carty Architecture)
2600 S Douglas Rd., Ste 801
Coral Gables, FL 33134
(786) 536-7555

Construction

N/A. Still in design phase.

Oceanfront Park, Boynton Beach, Florida

Oceanfront Park is the only beach access point for the City of Boynton Beach. The existing park boardwalk and amenities needed to be updated due to the general degradation of the property. The project required permitting through the Town of Ocean Ridge Building Department, City of Boynton Beach Utilities Department, Florida Fish and Wildlife Commission, Palm Beach County Department of Environmental Resource Management, and the Florida Department of Environmental Protection for work east of the Coastal Construction Control Line (CCCL). The resulting design of the park incorporated 1,000 feet of new boardwalk with dune crossovers, tension membrane shade structures, landscaping, dune plantings, rope and bollard beach access points, and site furnishings. The site was brought fully to compliance with the Americans with Disabilities Act. Mr. Betancourt served as the project manager for the project and was responsible for surveying, site planning, permitting, hardscape, landscape, irrigation, and construction administration. This project represents Mr. Betancourt's and Mr. Bortak's experience while employed with another firm.

Key Personnel Involved in Design Phase Services

Cristobal Betancourt, RLA
Stefan Bortak

Client

City of Boynton Beach
Wally Majors
100 E. Boynton Beach Boulevard
Boynton Beach, FL 33435
(561) 742-6224

Design Services Fee

\$220,000

Construction

Estimate of Construction Cost: \$2.1 million
Contract Award Amount: \$1.8 million
Contractor info unavailable

Northwest Pioneers Park, Ft. Pierce, FL

The project included the renovation of an 8 1/2-acre existing neighborhood park. The impetus of this project is to incorporate the history of the founding members of the City of Ft. Pierce while preserving the character of a neighborhood park. An iconic entry feature serves as a gateway to the park celebrating the life time accomplishments of the original 'Pioneers' of Ft. Pierce. Secondary points of entry from adjacent neighborhoods provide access to the other park amenities including: centralized facilities, public art for "Future Pioneers", splash pad, play equipment and basketball courts. The firm provided site planning, landscape architecture, civil engineering, and survey services and coordinated the work of geotechnical, electrical engineering, and structural engineering subconsultants in order to complete the park for the City of Ft. Pierce.

Mr. Betancourt served as the Project Manger for the project and provided site planning and landscape architecture services. He was responsible for overseeing the activities of all subconsultants in addition to his in house team. This project represents Mr. Betancourt's experience whil employed with another firm.

Key Personnel Involved in Design Phase Services

Cristobal Betancourt, RLA

Client

City of Fort Pierce
Nicholas Mimms, PE
100 N. Federal Highway
Fort Pierce, FL 34950
(772) 460-2200

Design Services Fee

\$100,000

Construction

Estimate of Construction Cost: \$2 million
Contract Award Amount: \$1.9 million
Contractor info unavailable

5. Names, Job Classifications, and Qualifications of Landscape Architectural Personnel

<i>Name</i>	<i>Job Classification</i>
Cristobal Betancourt, RLA	Director of Landscape Architecture
Jeff Houghtaling, RLA	Landscape Architect
Stefan Bortak	Landscape Designer

Qualifications

Please see page 3-4 for resumes of our Landscape Architectural Personnel.

6. Management Approach

Chen Moore and Associates understands that Key West expects to retain one or more qualified consulting firms to deliver the full menu of services. Chen Moore and Associates is able to provide the following based on past and current experience with our municipal and Community Redevelopment Clients:

We have assembled a complete team of consultants with whom we work currently to deliver quality projects on time and on budget.

- Streetscapes
- Hardscapes
- Softscapes and Xeriscape Practices
- Signage and Wayfinding
- Lighting
- Site Design
- Knowledge of Native Plants
- Plant Selection Experience
- Irrigation design and Installation
- Bicycle and Pedestrian Planning
- "Green" Task Orders
- Ecological and Environmental Design
- Landscape installation oversight



1. Project Approach

In order to provide the best possible services to Key West, a professional consultant must demonstrate the following qualities to their clients:

- Knowledge
- Responsiveness
- Efficiency
- Reliability
- Budget mindedness

Chen Moore and Associates' 26 years of experience have allowed us to develop a specific project approach for servicing municipal clients throughout South Florida. Proper project planning and initiation (project kick-off) is important to successful project execution for all clients. Municipal projects can be successfully completed by implementing the following steps:

- Define a detailed project scope
- Perform preliminary investigation
- Conduct site analysis
- Obtain stakeholder input
- Project design and execution
- Obtain regulatory agency approvals
- Construction phase services

Define a Detailed Project Scope

Under all projects, Chen Moore and Associates will coordinate directly with City staff to clearly establish the limits of the scope of services. A well-defined scope of services will allow us to accurately determine key elements of the project, such as future challenges, initial budgets and client expectations. Each scope of services will define all deliverables to the City along with an associated submittal deadline for each deliverable. During this phase, Chen Moore and Associates will present the City with a detailed scope and fee proposal within one week of any request. After the City reviews the proposal, a follow-

up meeting will then be scheduled to review any questions that may arise. Finally, once consensus has been reached and a work order has been issued, Chen Moore and Associates will then move on to the project development phase.

Perform Preliminary Investigation

It is important for Chen Moore and Associates to conduct extensive data collection at the commencement of each project. Insufficient or lack of information can result in decisions that adversely affect the outcome of the project. Chen Moore and Associates makes it a priority to spend extra time obtaining existing as-builts, researching existing regulatory permits, obtaining GIS information, obtaining LiDAR topographic data and aerial information, reviewing geotechnical and environmental reports, performing preliminary site visits, understanding the land use entitlement process, and meeting with the regulatory agencies at the earliest stages of the project. Data collection is crucial for the developing of high quality, executable, and sustainable designs for the City. It is our goal to obtain as much information as early as possible to inform our clients of the existing conditions and potential outcomes. We believe that comprehensive data collection translates into “no surprises” during the design and construction stages of a project.

Conduct Site Analysis

Once the initial data has been collected, Chen Moore and Associates will proceed with the review of the information and will begin developing a plan of attack for the development of the project. A list of “priorities” and required items (needed information) will be prepared for the City. Under this task, Chen Moore and Associates will also develop an official project schedule with the client’s input to ensure the deadlines for all project deliverables defined within the scope of services are met. This schedule will typically be provided in Microsoft Project and will be updated as necessary to meet the project goals. It is important to note that Chen Moore and Associates has extensive experience with fast-tracked projects. We can proudly say that we have never missed a defined deadline for our clients and we would be glad to discuss specific project examples in which we saved our clients substantial money by achieving aggressive deadlines.

Obtain Stakeholder Input

In urban and redevelopment areas, where people live at higher densities and in ethnically and economically diverse groups, obtaining stakeholder input is critical to the success of any project. It is important that stakeholders are engaged early in the process. The Chen Moore team will meet with the City’s staff, regulatory agencies, residents, business owners, neighboring municipalities, and other interested parties as necessary to make sure the expectations are understood by each party involved in the project. Often consultants do not spend enough time communicating with their clients and this can result in misunderstandings and in failing to meet the project expectations. The Chen Moore team understands the importance of communication during the project and is available to meet with clients as often as possible to get the job done. During this phase of our project approach, Chen Moore and Associates will document all discussions and meetings by producing project meeting minutes. Chen Moore and Associates will meet with the City’s staff as necessary until clear project expectations have been agreed upon by all stakeholders.



Project Execution and Design

Once all site data has been obtained and expectations have been established with the City, Chen Moore and Associates will conduct an internal brainstorming session to determine the most acceptable preliminary design or implementation plan for the project. Normally, several concepts are developed to stimulate discussion and to achieve project team consensus and client satisfaction. Once a concept is selected by the City, the Chen Moore team will move forward with the selected conceptual design or

plan. During the planning and design process, Chen Moore and Associates will attend progress meetings with the City at each milestone. During the project execution phase, Chen Moore and Associates will implement “value engineering” practices in order to stay within budget and provide savings to the City. Chen Moore and Associates will also implement our standard quality control program to provide a quality planning design recommendations.

We believe that proactive communication between the City and Chen Moore and Associates is crucial to identify any potential issues early on and allow the City to determine a course of action and/or to schedule methodology coordination meetings as applicable in a timely fashion to keep the project execution on track. Open discussion of project concerns early in the process also reduces the time the Chen Moore team needs to spend on the review and resubmittal of comments. Proactive communication will provide for more efficient and effective service to the City, which also leads to customer satisfaction.

Obtain Regulatory Agency Approval

This phase of our project approach is performed throughout the entire project. It begins with our initial site investigation and existing permits research and ends with the project close-out and final certification. It is important that all relevant regulatory agencies are approached and engaged as soon as possible to avoid any surprises. Throughout our 26 years of working on municipal projects throughout South Florida, Chen Moore and Associates has established valuable relationships with jurisdictional agencies. We understand the local permitting requirements necessary for fast tracking projects.



Project Assistance During Construction

In order to ensure the completion of a successful project, it is important that competent personnel oversee the construction efforts. There are many technical difficulties, questions and issues that can arise during construction. Chen Moore and Associates can assist the City with several construction phase services, including but not limited to bidding assistance, contractor selection, cost estimating, contract review, contractor pay requests review, construction administration, full-time construction observation, and final engineer’s certification. Our philosophy is that we will function as an “extension of your staff” to ensure the project remains on track and you are thoroughly informed of the progress of your project during construction.

The Chen Moore team will effectively provide prompt service, customer satisfaction, complaint resolution, effective employee performance, as well as timely completion of all work for the City, as we have years of experience working on similar municipal contracts. This will be accomplished through a proven and effective project approach, which has been successfully used in our previous contracts with the City of Dania Beach, City of Pinecrest, City of Miami Gardens, City of Miami Beach, , City of Fort Lauderdale, City of Margate, City of Pompano Beach, City of Hollywood, City of Coral Springs, City of Wilton Manors, Town of Lauderdale by the Sea, and several other public entities throughout South Florida.

Our experience and approach will allow Chen Moore and Associates to provide the City with the service, quality control, customer satisfaction and schedule control needed for this contract.

Methods and Materials Used

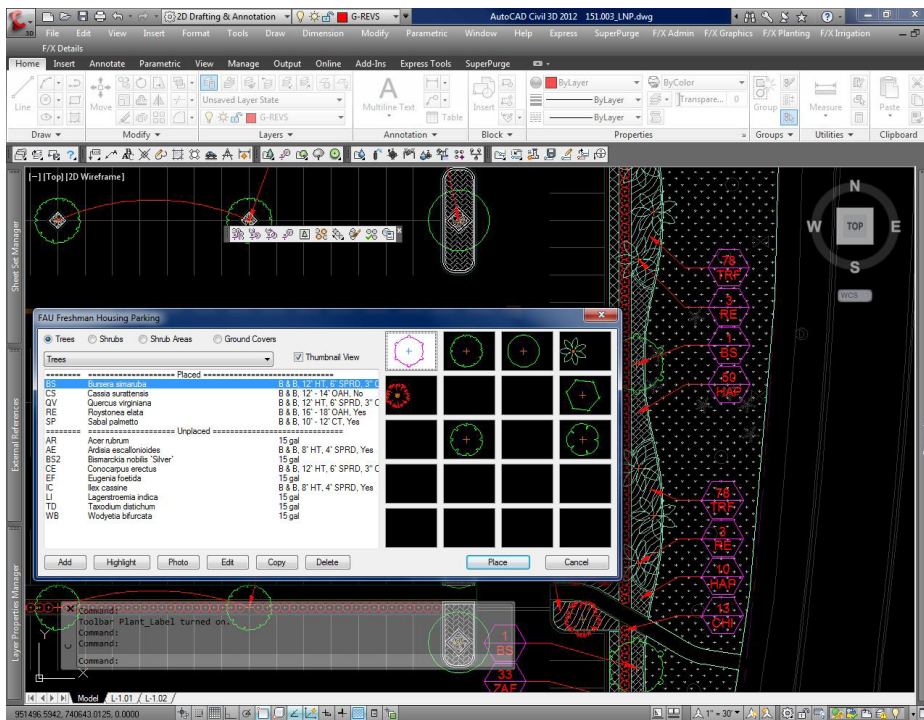
As mentioned before, we have an established project approach and well as internal quality control program. In addition, our staff works with the latest software and cutting edge tools to make our designs more efficient. Some of the software and internal programs available to the Chen Moore team are:

- Standard Project Approach
- QA/QC Program
- Land F/X for land planning, landscape architecture, and irrigation design
- AutoCAD Civil 3-D for development of construction documents
- Sketch-up with Maxwell Render for 3-D modeling of landscape architectural and urban design projects
- Adobe Photoshop, Illustrator, and In-Design for preparation of graphic documents, project manuals, and design guidelines
- Microsoft Project and Primavera for scheduling and timelines
- In-house GIS certified instructors and a variety of GIS software for accurate design data and cost estimating

Graphics Software

Because clear graphic communication of design intent is extremely important in the practice of landscape architecture, our landscape architecture department employs special software above and beyond their competitors for the development of their graphic presentations.

Land F/X is a plug in tool developed for supplemental use with AutoCAD. The software provides our team with the ability to quickly develop conceptual plan graphics, detailed planting, irrigation, hardscape, and lighting plans. A benefit of the software is that materials schedules are updated automatically as design elements are placed into the drawings. This provides for greater accuracy in materials square footages and line item counts. It also aids in expediting the QA/QC process.



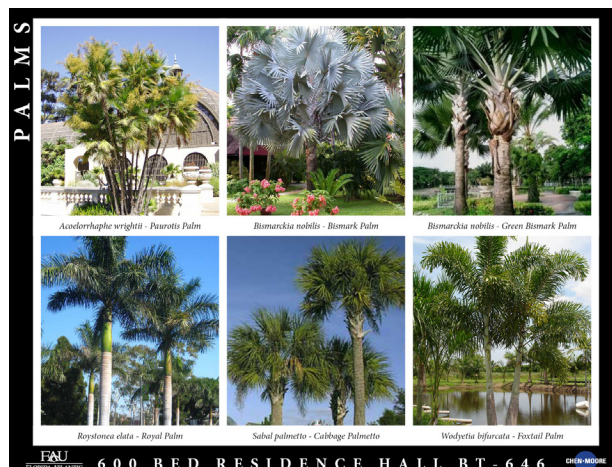
Google Sketch-up is a tool used to create total 3D models of project sites. By developing concept designs in 3D our team can allow clients to virtually travel through the design prior to implementing it. Through the processing of still Sketch-up images in Maxwell Render, we are able to provide clients with high quality 3-D images for use in presentations, websites, and other marketing material



Of course, we're landscape architects, so we're not afraid to break out the markers and draw by hand.



The Adobe Suite of products includes Photoshop, Illustrator, and In-Design which we use to marry multiple types of graphic techniques in order to convey information visually.



Due Diligence

In order to more efficiently complete a project, Chen Moore and Associates may request some of the following information from the City:

- Available zoning, land use entitlements, as-built information, utility atlas and existing permits
- Existing reports and assessments that may be beneficial for the development of the project
- Project construction budget in order to maintain a “target” for the design and value engineering of projects
- Legal information that may be required for the execution and/or permitting of the project
- Timely feedback and review turnaround times in order to maintain the project schedule
- Standard Key West front-end-documents and contracts that are used for the preparation of bid packages

2. Approach to Coordination with Subconsultants

Our team is comprised of local firms that are familiar with the City’s needs and can quickly respond to any request. Each team member is under contract to provide services, ensuring quick response time and high quality work. Chen Moore and Associates has successfully worked with our subconsultants on previous municipal projects. We have a strong working relationship with these firms and understand their strengths and work methodology. Our subconsultants understand the Chen Moore approach and understand our expectations. Each one of them will be included in the kick-off meeting and in project meetings as needed.



3. Methodology for Project Budget and Schedules

Cost control is an important part of any project. While there are many ways to save money for our clients, we mainly divide our cost saving efforts into two specific areas: Contract Cost Control and Value Engineering of Construction Documents.

Contract Cost Control

Chen Moore and Associates is sensitive to our clients’ budgets and needs. We spend time scoping the project and developing accurate schedules and fees. We pride ourselves on getting the job done and minimizing additional services or changes to the contract. To remain within budget, Chen Moore and Associates uses Deltek and a variety of internal spreadsheets for project tracking and cost control. The Deltek system is a computerized accounting package designed to automatically integrate data provided by the accounting system, such as timesheet entry, accounts payable, operating supplies, and subconsultant costs. All labor and other direct-cost charges for each task of each project are collected and maintained by Deltek. The project’s manager receives project cost information reports weekly, detailing work performed during the previous week, as well as a monthly summary report that shows labor charges (hours and dollars) by individuals and other miscellaneous direct costs. Because this accounting system is continually updated, the project manager may review project status at any time by viewing the information on a computer terminal or on printed reports. From this information, the project manager can continually compare actual costs versus budgeted costs on a weekly basis.



Value Engineering

To keep project costs down, Chen Moore and Associates has become very knowledgeable with “value engineering” practices. Today’s economy has forced many agencies to revisit their criteria and more construction materials are now allowed in the design and construction of projects. Chen Moore and Associates advocate material substitution while maintaining the quality of the product. Our project

experience has shown us that a good consultant will work closely with maintenance and facilities managers, contractors and manufacturing companies. We believe tracking the estimated cost of construction to be a key element in the success of any project. During the design process, the Chen Moore team will provide cost estimates at each milestone submittal to ensure the project remains within budget. While we cannot guarantee any cost estimate produced, we guarantee we will treat your construction budget as ours and we will make every effort to save you money and report cost data at regular intervals.

Project Schedule

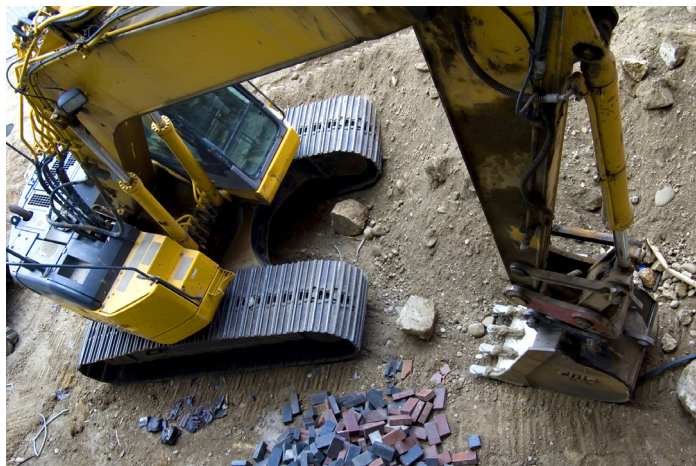
Successful schedule control begins during the planning and design phases of a project. The infrastructure improvement projects typically require a very tight schedule for design that can only be successfully carried out by a firm with not only the resources necessary to produce a quality set of plans in a short amount of time but the experience to understand the needs and requirements of the agencies reviewing their plans. Chen Moore and Associates is committed to providing adequate staffing to complete these projects on time and will use our experience to anticipate all regulatory agency comments and address them before the initial submittal. Chen Moore and Associates has extensive experience with design and permitting of various infrastructure improvement projects. In order to keep track of project schedules, the Chen Moore team uses Microsoft Project and Primavera. In addition, we will maintain an updated permit tracker spreadsheet outlining all permits and their anticipated approval.

4. Construction Administration

The in-house construction inspectors at Chen Moore and Associates are backed by years of experience and the assistance of the landscape architects and engineers assigned to the project. The following section elaborates on the abilities of the staff to complete all required construction administration tasks.

Coordinating the bid process, analysis of bids received, and providing recommendation on the award of construction contract:

The Chen Moore team is very familiar with the entire bidding process. Recent experience involved large construction contracts going to bid as part of the Broward County Neighborhood Improvement Projects. However, in many instances, smaller contracts were processed for various projects in municipalities throughout South Florida. At many different capacities, the Chen Moore team can administer all the bid process needs of the City.



Preparation of supplementary sketches required to solve problems during construction: Being a small firm, we believe that it is our duty to the client to respond as quickly as possible when a problem arises. Sketches to solve construction issues can be produced within minutes, and the construction inspectors on our staff are always available to aid in the process.

Checking detailed construction and shop drawings submitted by the contractor for compliance with the design concept: The Chen Moore team has extensive experience reviewing plans for internal projects and for outside clients. Chen Moore and Associates understands the need for internal review of design drawings. Plan review is done by professional landscape architects and engineers as well as field inspectors who give feedback on the constructability of projects. Chen Moore also realizes that it is sometimes necessary to review and verify work performed by prior consultants. Shop drawings will be reviewed in a timely manner.

Making periodic visits to the project site at intervals appropriate to the various stages of construction to observe progress and the quality of the executed work: Depending upon the specific needs of each project, the Chen Moore team will have construction inspectors available full time or at critical junctures during the project for certification and testing. It is essential during construction to have ongoing communication between the client, contractor, consultant and community. Chen Moore has established a solid reputation as a construction administration firm. One important aspect of communication is between the community and the client. This cannot be overlooked. The construction phase is when



most residents notice changes occurring, along with disruptions. It is during this time that most residents start paying more attention to the actual changes taking place. It is extremely important to keep an ongoing dialogue with the residents to explain why certain aspects were designed as they were and what the overall benefits will eventually be.

The Chen Moore team realizes that even with the best planning, pre-investigation, design and communication, changes can occur during construction. The most effective way of dealing with change orders is to try to anticipate them, provide alternative solutions quickly,

which are acceptable to both client and contractor, and negotiate with both entities to minimize additional costs. Often times, changes can be made on site without the need for the change order process. Chen Moore has built a reputation of administering projects in a way which minimizes change orders and the costs associated with them.

Issuing instructions from the City to the contractor or contractors, issuing necessary interpretations and clarifications of contract documents, and making decisions as to the acceptability of the work:

At Chen Moore, the landscape architects and engineers work very closely with the in-house inspectors, allowing a different point of view when interpreting construction documents. Considerable experience has been gained due to the fact that all engineers involved in infrastructure design have had in-house field experience where they performed construction management services. The lessons learned in the field are incorporated into the design and the engineers have the knowledge to make educated decisions about the acceptability of the work.

Determining amounts of progress payments due based on completion of the work, and recommending issuance of such payments by the City: The field inspectors at Chen Moore will have knowledge of each step taken during the project process, and therefore will be able to assess the progress of the construction. The field inspectors will convey to the engineers what they feel is an appropriate recommendation to the City. The engineer will consider this opinion and possibly field verify this opinion before making the final recommendation to the City.

Observing initial operation of the project or performance tests required by specifications: The design team at Chen Moore and Associates feels that it is their duty to be present for all important procedures that have an effect on the project. Since the outcome of these procedures will be incorporated into the design, the landscape architects and engineers are obligated to observe and approve the procedures.

Making a final inspection and reporting on completion of the project, including recommendations concerning final payments to contractors and release of retained percentages, if any: During the final walk-through of the construction, the inspectors will be required to maintain extensive documentation that can clearly be understood by the designers. The design professionals, in turn, will issue recommendations of final payment to the contractor after they are satisfied that the construction process is complete.

Preparing needed documents including record drawings and certifications for submittal to regulatory agencies: Chen Moore is very familiar with dealing with regulatory agencies, so we will be able to predict and deliver what the agency needs. The Chen Moore team is also experienced with managing unexpected events and situations, and can respond promptly with the required information.

5. Differences In Designing/Managing Private Vs. Public Projects

Our team of professionals has some of the most diverse backgrounds in the industry. Our experience ranges anywhere from large-scale neighborhood improvement and redevelopment projects, master plan studies, streetscape design, park improvements, and municipal buildings. In addition, the Chen Moore team has worked on a variety of private projects which include large hospitals, stadiums, sports and recreational facilities, colleges and universities, golf courses and clubhouses, and resorts, as well as residential, commercial and industrial site development. We believe this diversity of experience and understanding of both the public and private realm provide us with the ability to have a 360 degree view of any assignment.

There are many differences in the management style and project approach to private projects versus public projects; however, the one thing both have in common is that in today's economy project budgets are the driving factor. Having successfully applied value engineering practices to past projects, the Chen Moore team is able to address this very important factor.

Perhaps the most evident difference between public and private projects is the procurement process. Our team understands that the City has to follow certain criteria and a series of steps in order to approve project budgets and project changes, which are subject to approval by different boards or committees. The City's Project Managers have to answer to public officials as well as the general public. On the other hand, the private sector is much more streamlined; approvals of additional budgets or decisions can be decided by one individual.

Because of the additional layers of approvals within government clients, consultants must carefully plan the project schedule and timelines well in advance. A good consultant knows that the project schedule cannot be fully developed without the City's input.

There are many issues to consider when managing a municipal project that don't exist in a private project. But there are two key issues that need to be accounted for when managing a public project: the funds being used come from the taxpayers and the end user's (the general public) input must be considered.



7. Anti-Kickback Affidavit and Public Entity Crimes Certification

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
 : SS
COUNTY OF MONROE)

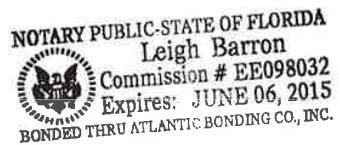
I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: _____
Peter Moore, P.E., LEED AP
President

Sworn and subscribed before me this

1 day of May, 2012.

NOTARY PUBLIC, State of Florida at Large



My Commission Expires: June 6, 2015

**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. No. 12-002 for General Landscape Architectural Services

2. This sworn statement is submitted by Chen Moore and Associates
(Name of entity submitting sworn statement)

whose business address is 1444 Biscayne Boulevard, Suite 204
Miami, FL 33132 and (if applicable) its Federal
Employer Identification Number (FEIN) is 59-2739866 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is Peter Moore, P.E., LEED AP 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)
May 1, 2012
(Date)

STATE OF Florida

COUNTY OF Broward

Peter Moore, P.E., LEED AP
PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Peter Moore, P.E., LEED AP who, after first being sworn by me, affixed his/her signature in the
(Name of individual signing)

space provided above on this 1 day of May, 2012.

My commission expires: June 6, 2015
NOTARY PUBLIC

NOTARY PUBLIC-STATE OF FLORIDA
Leigh Barron
Commission # EE098032
Expires: JUNE 06, 2015
BONDED THRU ATLANTIC BONDING CO., INC.