



**THE CITY OF KEY WEST NAVAL PROPERTIES
LOCAL REDEVELOPMENT AUTHORITY
REQUEST FOR QUALIFICATIONS
NO. 11-004**

PROFESSIONAL LANDSCAPE ARCHITECTURAL/
ENGINEERING/ ARCHITECTURAL/ LAND SURVEYOR/
SERVICES FOR TRUMAN WATERFRONT
UPLAND DESIGN AND CONSTRUCTION ADMINISTRATION

PACKAGE SUBMITTED ON JUNE 29, 2011

TO:

*CITY CLERK
CITY OF KEY WEST, FLORIDA
CITY HALL, 525 ANGELA STREET
KEY WEST, FLORIDA*

BY:

*TRUSKOWSKI, INC. LANDSCAPE ARCHITECTS
SCOTT AG
TRELLES CABARROCAS ARCHITECTS
MILIAN, SWAIN, & ASSOCIATES, INC. CIVIL ENGINEERS
SCHWEBKE SHISKIN & ASSOCIATES LAND SURVEYORS
CERTIFIED AND NOTORIZED FORMS*

Technical Proposal

I. INTRODUCTION

Our firm is pleased to respond to the RFQ for professional services related to the Truman Waterfront Park, an important destination for thousands of local residents and tourists. The Truman Waterfront Park, as well as the buildings recreational support amenities, is an important asset to our local cultural life. Developing a program to best utilize this community resource will be an important step towards the revitalization of the "crown jewel" of Key West. This program will require sensitive attention to the existing building fabric as well as skillful interpretation of a program that addresses both immediate and future needs. Working in unison with the City of Key West staff, officials and the business plan consultant, we are confident that together, we can create an exciting design vision and logical road map for its' implementation. A successful scheme must also incorporate a thoughtful, phased renovation campaign to address the physical and infrastructure deficiencies of the facility, allowing the Truman Waterfront Park to afford the general public expanded recreational opportunities and community activities. Our team looks forward to this collaboration and the opportunity to assist in achieving the long- term community objectives of the City of Key West's Local Redevelopment Agency.

II. PROJECT TEAM

In an effort to provide the professional response needed to fulfill the technical, aesthetic and administrative challenges posed by this commission, R. E. TRUSKOWSKI, INC. will assign Robert Truskowski, FASLA as Principal-in-Charge to oversee the coordinated effort of the project team. Additionally, we have requested our consultants to provide senior level personnel to act on behalf of their firms as project managers. We offer the following team of professionals for consideration:

1. Landscape Architect

Contact: Robert Truskowski, FASLA
R. E. TRUSKOWSKI, INC.
LANDSCAPE ARCHITECTS AND PLANNERS
Fellow American Society of Landscape Architects
Palm Beach Towers 44 Coconut Row, #T-15
Palm Beach, FL 33480
Ph: 561.833.8410 Fax 561.833.84902.

2. Architect

Contact: Luis Trelles, AIA
TRELLES CABARROCAS ARCHITECTS
169 East Flagler Street, Suite 828
Miami, Florida 33131
Phone: 305.373.1960 - Fax: 305.373.1961

3. Civil Engineers

Contact: Julio Menache
MILIAN, SWAIN & ASSOCIATES, INC.
2025 SW 32nd Ave. Suite 110
Miami, Florida 33145
Phone: 305.441.0123 - Fax: 305.441.0688

4. Surveyors

Contact: Ron Fritz
SCHWEBKE SHISKIN & ASSOCIATES
3240 Corporate Way
Miramar, Florida 33025
Phone: 954.435.7010

5. Wayfinding/ Graphic and interpretive design:

Contact: Jim Burch
SCOTT AG
1275 North Dutton Avenue
Santa Rosa, California 95401
Phone: 707.545.4519

We feel that the collective expertise of this team will enable RET, Inc to address the requirements of this project in the most careful and comprehensive way possible. All project managers are fully capable of the highest standards of professional care. Additionally, RET, Inc has acted as the lead professionals on other similar commissions involving cultural facilities requiring a high degree of sensitivity to the restoration & refurbishment of coastal properties and public gathering spaces.

III. METHODOLOGY AND GOALS

Good design is not a product of preconceived style. It is the thoughtful response to a particular set of problems defined by dynamic between all the members of the building process. Establishing and animating that dialogue is the responsibility of the architect as team leader. Being a good listener is essential to carefully define project parameters, determine the wishes of the client and form appropriate responses to agreed upon goals. Careful definition of the project ensures the entire project team understands the scope of work to be addressed and the quality of performance expected. We will employ best practices to achieve the following project goals:

Working in collaboration with City Staff and representatives designated by the client, develop a new vision for the facility identifying the modifications needed to facilitate the agreed upon new use(s).

IV. SPECIFIC TASKS

The following is a brief description of each project.

1) Waterfront Redevelopment. Goal: complete a comprehensive design development set of plans which incorporate parking and green space for the City's waterfront park area. Plan will incorporate designs for pedestrian and vehicular access plan, lighting, signage, sustainability and landscaping. Plan will include how to improve visibility as a community destination. **Plan will also include a proposed budget and fund raising strategy, identifying available funding sources.** Project will include working with the Waterfront Task Force and City Planning & Development staff.

2) Signage Design Plan. Goal: create a citywide municipal signage plan that will include, sign design, location, size, etc. for the business park, downtown, gateways and "wayfinding" destination goals. The plan will identify "what" sign will go "where", with a budget to work with for the following fiscal year. Project will include working with the City Planning & Development staff and involve the public for comments. Plan will also include a proposed budget and fund raising strategy, identifying available funding sources.

VI. RELEVANT COMPLETED PROJECTS & AWARDS

RET, Inc has enjoyed the opportunity to work on commissions of a caliber that have formed a particular expertise in creating landscape architecture for cultural facilities and in the field of historic preservation and restoration. We have worked together with many private and public focus groups on projects involving the restoration, renovation and adaptive reuse of existing historic structures. We are confident that our firm has the capability to address the landscape architectural tasks outlined in this RFQ and offer examples of our previous projects that have direct relevance to the nature of the specific areas of work.

PROJECT FLORIDA BOTANICAL GARDEN
Location Naples, FL

PROJECT PRINCESS RESTAURANT, Century City
CLIENT Princess Enterprises, Century City
AWARD Beautification Award, landscape architecture
 West Los Angeles Chamber of Commerce
 (One of four projects chosen for award in 1983)

PROJECT RENO PLAZA HOTEL, Reno, Nevada
CLIENT Western Hosts, Newport Beach, Ca.
AWARD Nevada Landscape Award

PROJECT DANA NIGUEL LIBRARY, Laguna Miguel, Ca.

CLIENT Count of Orange, California
AWARD AIA First Honor Award

PROJECT JACK LONDON VILLAGE, Oakland, Ca.
CLIENT Port of Oakland, California Intl. Design Competition - Commercial.
AWARD American Institute of Landscape Architects

PROJECT TWA WORLD HEADQUARTERS
CLIENT TWA
LOCATION Mount Kisco, N.Y.

PROJECT FLIGHT TEST ENGINEERING & MANAGEMENT FACILITY
CLIENT Holmes & Narver, Inc.
LOCATION Edwards Air Force Base, Ca.

PROJECT ADAL TEST CENTER
CLIENT Burns & Roe Pacific, Inc.
LOCATION Edwards Air Force Base, Ca.

VII. FIRM BACKGROUND

For over thirty-five years R. E. Truskowski, Inc has designed gardens all over the world ranging from gardens for a castle in the Austrian Alps to lagoons and grottos for a palace on the Red Sea. Truskowski creations have included “garden rooms” for Mick Jagger on his estate in the Caribbean, secret gardens and rills for a villa in Cap Martin and forested understory plantings for a lodge on the shores of Lake Tahoe. Commissioned for these projects because of his reputation for creative artistry in landscape design, and as a result of his commitment to close collaboration with his clients and project team members, Robert’s body of work and pursuit of design excellence have constituted an outstanding contribution to the profession of landscape architecture.

Robert E. Truskowski is a native of Southern California, and in 1970 he received a Bachelor of Science degree in Environmental Design with a major in Landscape Architecture from California State Polytechnic University in Pomona, California. Robert continued his professional development education through courses from Harvard University Graduate School of Design. He has served on the UCLA landscape architectural program curriculum committee, and he currently holds licenses to practice in twelve states ranging from New York to Hawaii. He has been a member of the American Society of Landscape Architects since 1972.

Robert Truskowski has worked long and hard to gain the success he has won in his chosen profession. In high school he began working for pool contractors, and learned how to build everything from water feature hydraulics to artificial rockwork. When he entered Cal Poly, he

intended to become either an engineer or an architect, but changed his major after a heart-to-heart chat with the head of the landscape architecture department.

Robert opened his own office in the early 1970s, and began to work with clients in the Southern California area. His passion for the study of art, history and design and his innate talent soon resulted in work that won the appreciation of his clients and attracted the attention of other design professionals. Specializing in new estate garden design and the restoration and re-design of historic gardens, Robert E. Truskowski's practice has centered around close collaboration with his clients and project team members. As a measure of his collaborative success, clients will often call him back to design successive residences, and have him do several projects for themselves, friends and family members.

His knowledge of the historic context of gardens and experience with designing gardens in many climates around the world resulted in his selection by the Naples Botanical Gardens to design their new Caribbean Garden. As his design goal, Robert sought to give visitors a garden prism through which to view the complex and diverse history of the landscapes and cultures of the Caribbean.

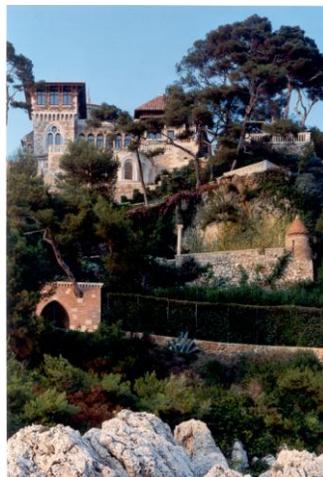
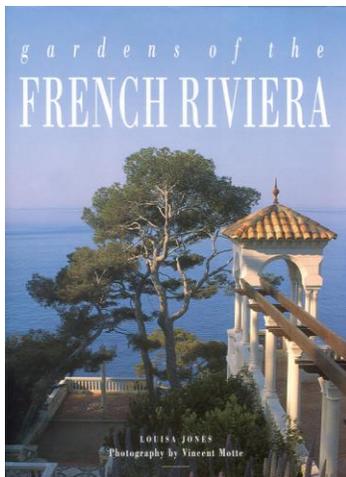
Meticulous research is another hallmark of Robert E. Truskowski's designs. For example, in re-designing and restoring the gardens of Schloss Blühnbach, an Austrian castle designated as a national landmark he found that the original gardens were at their peak in about 1820. Consequently, he handled the restoration in the manner of the Mirabel Gardens, staying true to Austrian landscape architecture of the early nineteenth century. Even though his projects are characterized by a "fabulous" or "spectacular" quality, Robert possesses a deep commitment to environmental and sustainability goals, and his projects have incorporated these considerations. Researching an area's history, native plants and context within which his design will be executed are always one of his first project goals.

Robert's original office is located in Laguna Beach, California, where he and his family resided. Later, as he worked on projects across the U.S., he established offices in Greenwich, Connecticut; Palm Beach, Florida; and Santa Barbara and Beverly Hills, California. Robert has built a solid team of professionals, some of whom have been with him twenty years or more. Several landscape architects, whom he has taught and mentored, have gone on to found their own successful practices.

SIGNIFICANT WORKS

Villa Torre Clementina, Roquebrune, Cap Martin, France (1987-1993)

Description: The Villa Torre Clementina was designed shortly after 1900 by architect Lucien Hesse for Ernesta Stern, wealthy patroness of the arts who received the notables of the day at her salon. Raffaele Mainella, an Italian artist, designed the interiors and the original gardens, described as a “great surrealistic mosaic” of periods, styles and materials. The new owner, a collector of art, rare manuscripts and historic estates, who has endowed libraries and museums, commissioned a project team to not only restore and recapture the historic and eclectic elements of the Villa, but to design their own innovative solutions to the requirements of the site.



Built on a steep hillside overlooking the Mediterranean, the villa and the gardens had suffered decades of neglect. Robert planned the removal of overgrown plant material to open up the views, and he recommended extensive measures to save the existing mature Aleppo Pines.

He then embarked on the re-creation of a new garden in the grand tradition of the Cote d’Azur. Robert personally visited nurseries throughout France and Italy, and over 350 varieties of plant materials were grown or collected over a five-year period. Due to the steep hillside, major trees needed to be placed onto the site using helicopters and cranes. When the ruins of a five-story grotto were discovered, Robert had latex molds made of these remnants, and duplicated the intent of the original design. In this same vein, all the remaining terraces, rills, swimming pools and wall work are new, yet they were designed and executed in the materials and craftsmanship of the late 1800s when the Villa was built.

Project Importance: The garden was given National Landmark status in 1993 by the French government. Robert E. Truskowski, along with the building architects, was invited by the French government agency CAUE of Alpes Maritime “Conseil d’Architecture et d’Urbanisme et de l’Environnement” to give a seminar on the project in Nice that coincided with a one-month

exhibition of the project plans and photographs. The project has also been shared with the public through visits by museum and tour groups.

Stargroves Estate on the Island of Mustique (The Grenadines) (1988 – 1991)

Architect/Interior Design: Johnson-Wanzenberg, NYC, NY

Description: One of Robert E. Truskowski’s most challenging projects was Stargroves, an ocean-front estate on the Island of Mustique, at the southern end of the lesser Antilles in the Caribbean. Robert traveled throughout the Caribbean with the Owner to view plant materials to fulfill the goal of creating a garden with a great diversity of plants.

Robert’s design concept for Stargroves encompassed several complex goals revolving around creating a landscape that flowed through and around several pavilions so that house and garden became one. Through this process he had to address and resolve such problems as a lack of water, logistical constraints, no nearby plant nurseries, landscape contractors or heavy equipment, along with the attendant environmental site issues including tradewinds and continuous salt spray.

Stargroves has salt water levels 24” below the surface, and the site is beach sand with no topsoil. Fifteen-knot tradewinds blow almost continuously year-round which required a design that created protected gardens, utilizing native coastal plants to reduce water requirements and keep an indigenous character to the exterior gardens. Adequate water had to be provided by first creating cisterns under the decks connecting the buildings, and a 7,000 gallon per-day desalination plant was built on site to provide water for the dry season. Robert designated the use of polymers from England to retain the water in the soil, a low precipitation/drip irrigation system, and mulched with a by-product of the sugar cane bagasse to limit surface loss.

II Palmetto Estate, Palm Beach, Florida (2000-2004)

Design Architects: Fairfax & Sammons, NYC, NY; Production Architects, Bridges, Marsh & Carmo, Palm Beach, FL; Landscape Contractor; Dias Landscape, Boyton Beach, FL



Description: A Palm Beach classic, this historic estate, originally designed by Maurice Fatio, became one of Robert's significant landscape architectural achievements. When Robert's client purchased the property, it had been vacant and neglected for several years; thus it became a "ground-up" renovation. This estate was one of the last "undivided" Palm Beach estates to be restored, and the client retained Robert to recreate a totally mature garden.

To accomplish this goal, a nearly sixty-five foot Ficus and a large specimen Green Buttonwood were saved from demolition on other properties and were barged down the Intercoastal to Il Palmetto. The pool was redesigned, and all other hardscape features, including terraces, paths and docks were completely replaced.

Project Importance: After the estate was completed, the garden appeared to be "timeless," the quality Robert always tries to impart to a historic project. Over the years, Il Palmetto has received acclaim in various publications, and Robert participated in a Red Cross fund-raising event by giving a presentation on the project and how historic renovation often provides the opportunity to save trees and plant material facing demolition. As a side note, saving and barging the large trees down the Intercoastal to the site became part of the local folklore, even inspiring an illustrated children's book "The Story of the Tree."

Beach Palace on the Red Sea (1996 – 2000)

Architect: D.P. Agence, Paris, FR

Description: Robert's mandate for this client was to create an oasis on the sea, and the resulting project became a spectacular sanctuary for his client. (Indeed, this site has now become a refuge for bird species.)



Robert's years of experience in designing water features, including salt water pools and lagoons, resulted in the design of a salt water lagoon as well as a series of salt water pools that cascade into the sea. Robert worked with a local contractor to locate existing specimen trees that faced destruction or demolition, and these were moved to the site. He also personally selected every plant and provided on-site construction management and training for local landscape workers.

Project Importance: This project reflected the balance that is always Robert's goal in designing large estates – to create gardens and features that achieve his clients' goals, yet combining aesthetic goals with environmental and sustainability considerations. Working with an international team of architects, consultants and contractors, Robert demonstrated the professionalism and expertise that U.S. landscape architects can bring to a complex project anywhere in the world.

Elm Court Estate in Butler, Pennsylvania (1986 – 1995-various phases)

Description: The original house and garden of this 20-acre estate were designed by famed architect Benno Janssen in the 1920s as an English Gothic-Tudor mansion for one of the founders of the Phillips Petroleum Company. Listed on the National Register of Historic Places, the garden was in a total state of disrepair when Robert received his mandate from the owner to "renovate and innovate" in a manner befitting the estate.



Other than the major existing trees, all ground plane landscape had to be re-designed, including all paths, pools, streams and other hardscape features. New specialty gardens were added including a white garden surrounded by a patterned silver and grey herb border as well as a gold garden containing a collection of gold-foliaged evergreens. Water features included a stream designed to flow into a “frog pond” that contained its own unique collection of water plants. This garden is another great example of Robert’s commitment to recapturing the original spirit of place and time within a renovated historic garden.

Project Importance: Clients often retain Robert E. Truskowski on successive residences over the years, and this particular Owner has commissioned Robert’s services on three large projects. The Owner’s intention for this estate is that it will soon become a museum, available to the public for tours.

All of the above mentioned projects have required appearances before various municipal clients, civic groups, community boards and governmental agencies having jurisdiction. RET, Inc has represented their clients before local Boards of Architectural Review, Numerous planning Commissions, Historic Landmarks Commissions as well as City Councils. We place great emphasis on coordinating with agencies having jurisdiction over our projects. Additionally, we have routinely coordinated our efforts through several city government branches prior to Commission appearances. With the appropriate effort and diligence we have been able to provide these agencies with the response required and have enjoyed prompt and expeditious approvals.

PROJECT FLORIDA BOTANICAL GARDEN
Location Naples, FL



PROJECT CLARK RESIDENCE (II Palmetto Estate)
Location Palm Beach, FL



VIII. REFERENCES

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SCOTT | AG

[c o m p a n y p r o f i l e]

Welcome to ScottAG. Jim and I would like to take the opportunity to introduce, or re-introduce ourselves and our firm. Our work has carried us around the globe the past several years. We look forward to working with you on projects in our backyard or yours.

ScottAG is the only Design/Build Environmental Graphics & Signage firm on the West Coast of the United States. We design, fabricate and implement innovative, engaging signage and identity programs for a wide range of projects. Our unique studio approach includes designers and fabricators working side-by-side to provide unparalleled value for our clients. Our project management staff directs each project with an emphasis on maintaining the vision and clarity of the design, schedule and budget.

We offer our expertise at many different levels to a wide array of clients. We work with project owners, developers, architects and facilities managers in the development and implementation of complete environmental graphics programs; project research, theming and site marketing; project management; fabrication design and detailing; fabricating architectural elements; developing project entitlement and tenant signage guidelines.

Our approach to environmental graphic design defines two facets for every project; a marketing/branding story and a functional hierarchy. The marketing/branding perspective of a project defines the customer, potential buyer or resident's perception of the project. The functional aspects of a project drive the process of delivering the appropriate message to the customer in a clear and coordinated way. Bringing these elements into harmony is the essence of our craft.

Every project has a story, a soul. This story transcends typography, color and other graphic design conventions. A project in the built environment has more than three dimensions. The identity and graphics developed for a project must bring all of these elements together. Our experience coordinating and collaborating with architects, land planners, and marketing consultants allows us to fuse our work with every component of a project. Often our work includes the design and development of architectural features such as fountains, fireplaces, FF&E elements, handrails, murals and color studies.

The functional requirements for project identity, directional graphics, code and safety related signage is approached with careful study and research. The development of a complete sign program for a project requires review of customer behavior, planned or existing physical conditions, and local codes. We have developed over 350 complete sign programs in the past 10 years. Our projects have ranged from regional malls to planned main streets, wineries and hospitality to mixed-use retail centers, planned communities to public parks, airports to multi-modal transit systems. There is no challenge too big or too small for our expertise and craftsmanship.

Begun as a local sign shop in 1909, ScottAG has been built around a legacy of expert craftsmanship. In the early 1970's, the firm began to focus it's attention on the development of sign systems in order to meet the growing needs of an increasingly complex urban environment. The firm evolved into a full service, Environmental Graphic Design firm and design/build company, utilizing our decades of sign business experience as the foundation of the sign program development process.

We are 100 years old and looking forward to our next century with great enthusiasm. Our passion for our craft and our commitment to bring value to your project are our hallmarks. Jim and I look forward to bringing this energy to your next project.

Please contact Jim Burch or Michael Burch at our studio in Sonoma County and take a closer look at our work on our website.

SCOTT AG 1275 North Dutton Avenue Santa Rosa California 95401 707.545.4519

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[b i o s]

J i m B u r c h - M i c h a e l J . B u r c h - K a t i e B u r c h - S t e p h a n i e K e n n e d y - R a y S t . F r a n c i s

Jim Burch, Principal

Jim Burch is the primary driving force behind ScottAG. His extensive experience, knowledge of environmental graphic design and sign program planning make him a leader in the signage and environmental graphic design business. In a career spanning over 40 years in this industry, there are few stones he has left unturned.

ScottAG was founded in 1909. Jim began working for Scott Sign Company, the firm's original name, in 1963. He became a partner in 1971, and has owned and managed this dynamic and ever evolving company since 1980. Jim's vision and talent have built ScottAG into a premier full service design/build environmental graphics firm.

In addition to sales and management responsibilities Jim has maintained control of the creative side of the business. He has pushed ScottAG onto the national and international design stage through a combination of talent, tenacity, passion for great design and dedication to customer service. Jim has headed up the execution of numerous major retail and mixed use projects over the years. Clients have included: Macerich, Madison Marquette, MAF, Somera Capital, Jones Lang LaSalle, JLW, and many others.

Licenses

California Contractors License 345283

Professional Affiliations/Memberships

Society of Environmental Graphic Design.
International Conference of Shopping Centers.
International Sign Association

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[b i o s]

J i m B u r c h - M i c h a e l J . B u r c h - K a t i e B u r c h - S t e p h a n i e K e n n e d y - R a y S t . F r a n c i s

Michael Burch, Principal & General Manager

Michael J. Burch is the General Manager and a Principal at ScottAG, and has been with ScottAG on a full time basis since 1991. He has performed nearly every function within the company, and now manages the business and oversees large projects in sales, design, and production. Michael's education and experience in planning and architecture give him an ideal background for the projects ScottAG undertakes. He has managed many regional mall renovations, historic renovation projects, and large institutional projects.

Before coming to ScottAG, Michael worked with several architectural firms in Northern and Southern California. Working on multi-family residential and commercial projects as well as assisting in the development of proposals for competitions and government contracts provided him with an understanding of the business behind the design and development industries.

Michael is a key player in every ScottAG project. His ability to navigate the complexity of large projects while maintaining the vision and clarity of the design concept has made him a valuable asset to many clients.

Along with the completion of over two dozen retail projects in the past 10 years, Michael has completed several large national and international projects in other areas. He orchestrated a corporate ID rollout for SGI that included 130 locations in 80 countries. Michael was also the driving force behind the design and execution of the SFO International Terminal Concessions Tenant Sign Program which was honored with an SEG D Honor Award and was delivered on time and under budget. Michael was the lead designer and traveled to London and Dubai to oversee the design and implementation of the Mall of the Emirates project.

Education

B. A., University of California Irvine, 1989

Licenses

California Contractors License 345283

Professional Organizations

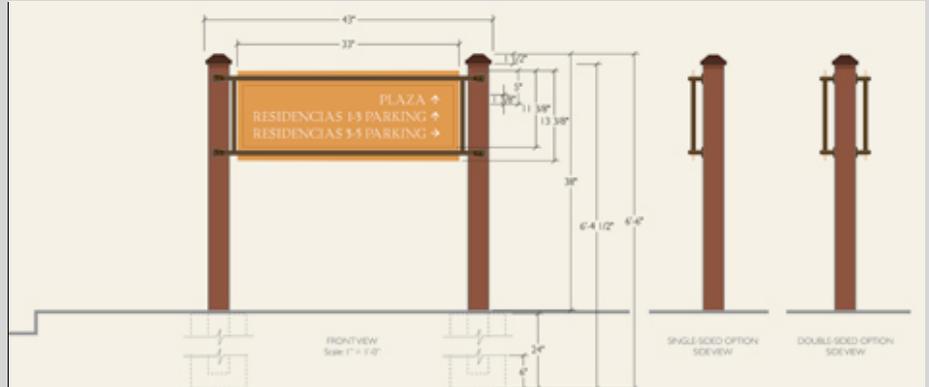
Society of Environmental Graphic Design.
International Conference of Shopping Centers.
International Sign Association.
Society for Commercial Archaeology

Awards

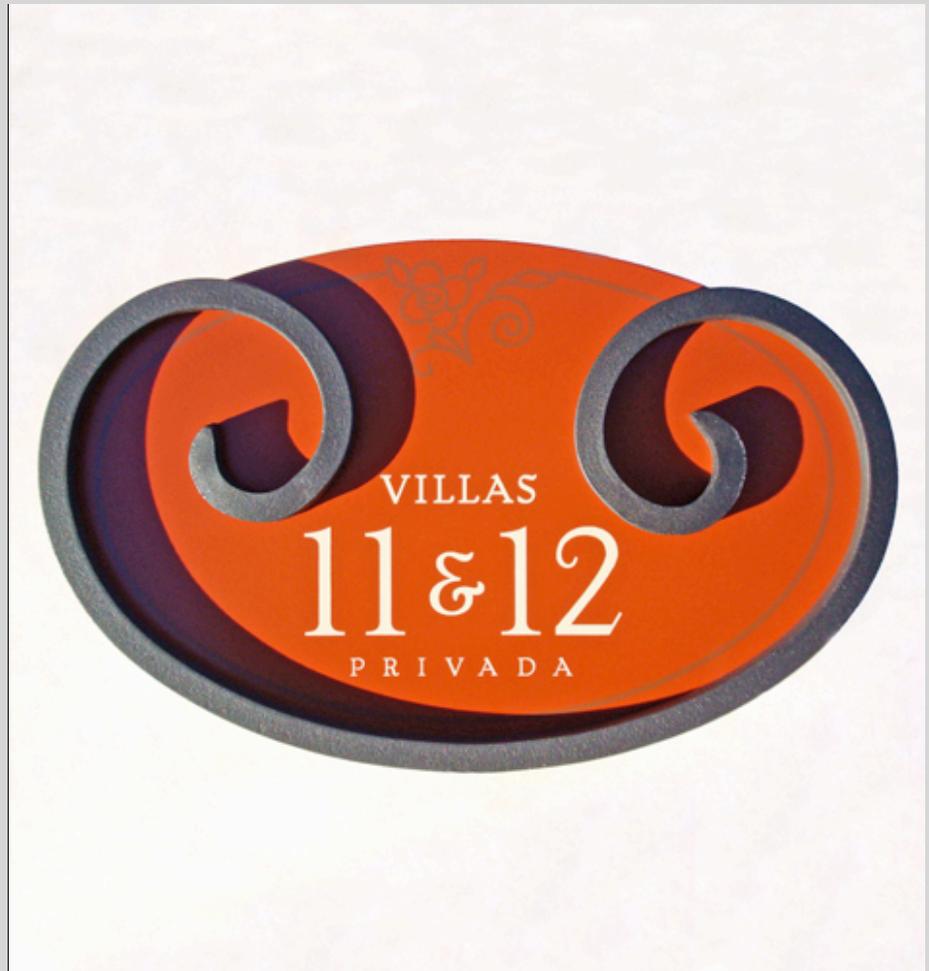
SEG D Honor Award, SFO International Terminal Concessions. Tenant Identification and Wayfinding Signage Program 2002

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[resort / hospitality]

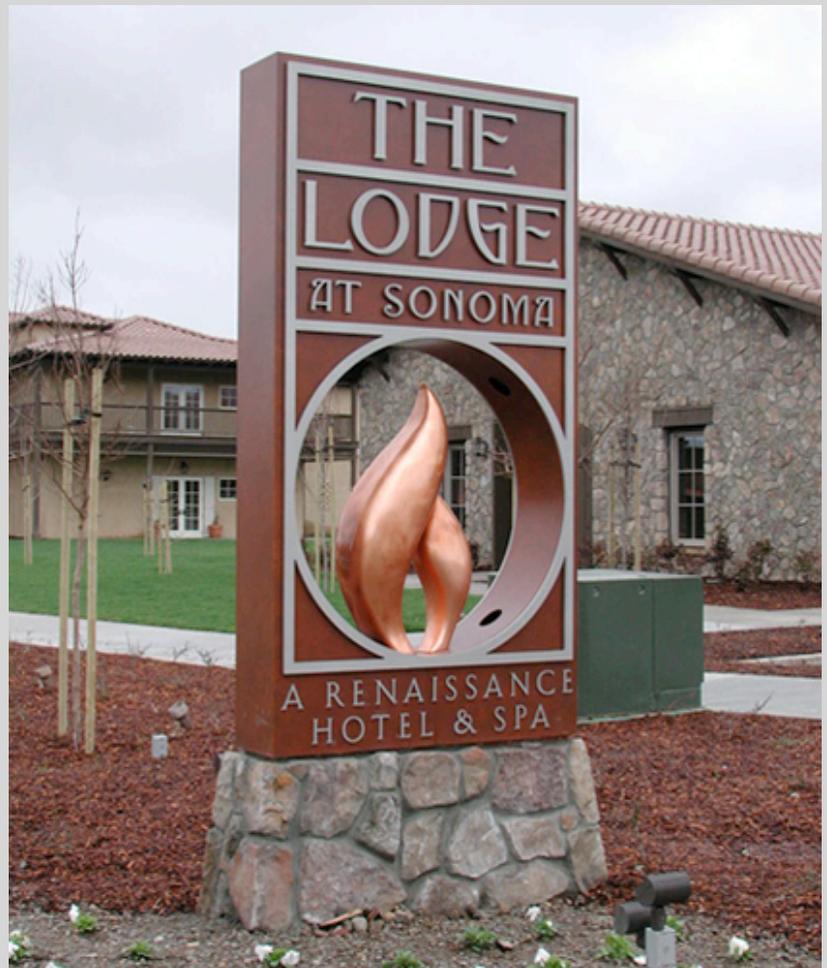


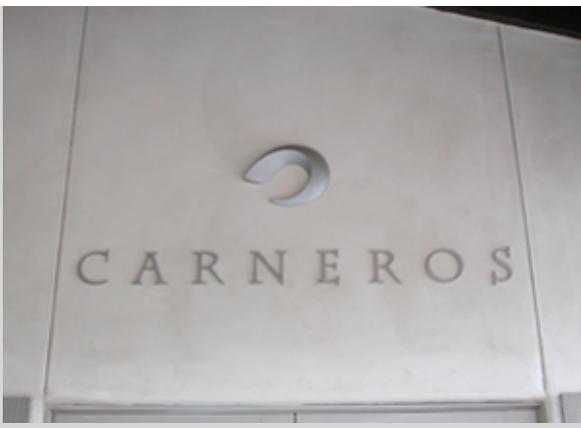
Hacienda / Koll Company
Cabo San Lucas, Mexico



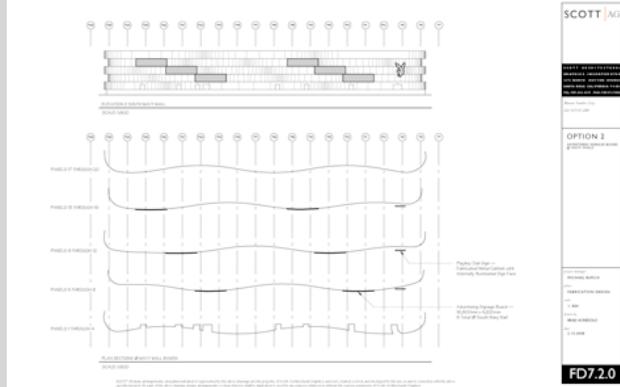
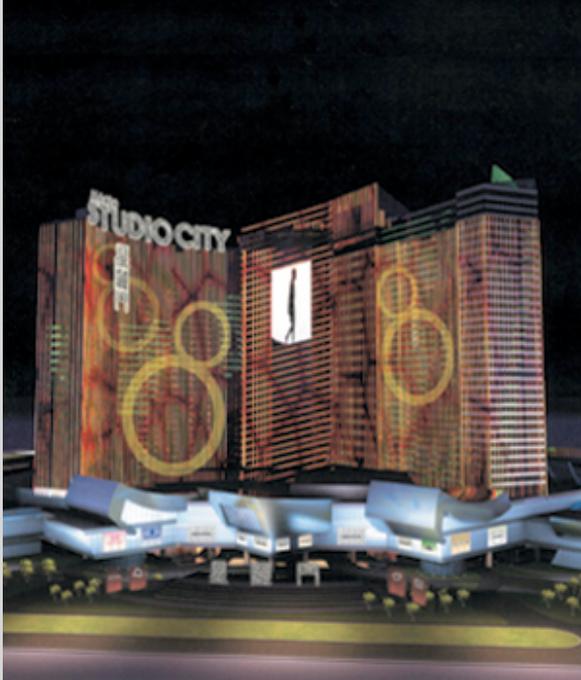


The Santa Barbara Biltmore / Ty Warner
Santa Barbara, California

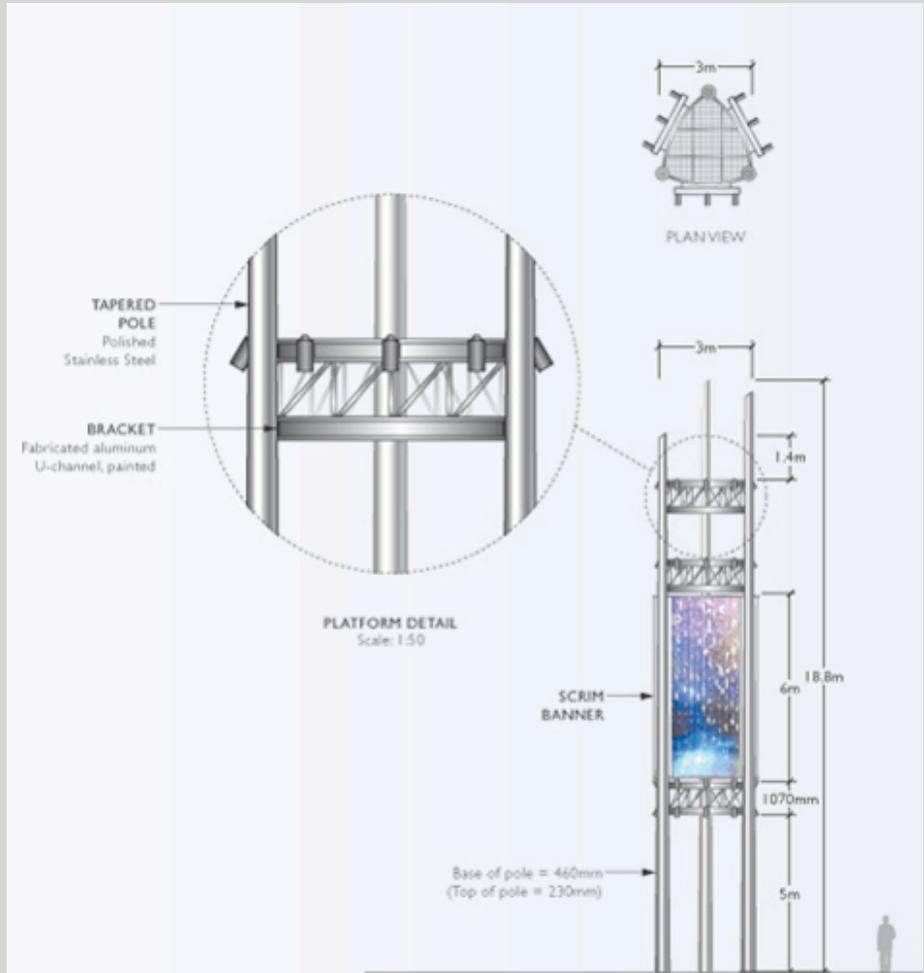


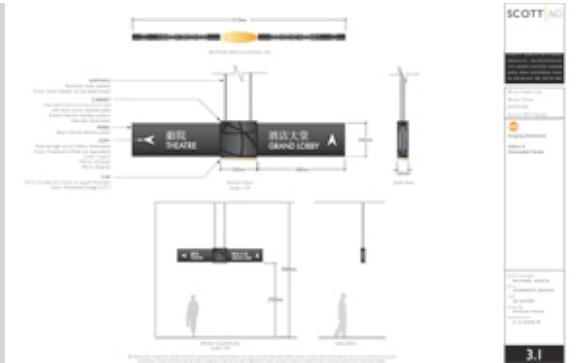


The Lodge at Sonoma / Renaissance Hotels
Sonoma, California

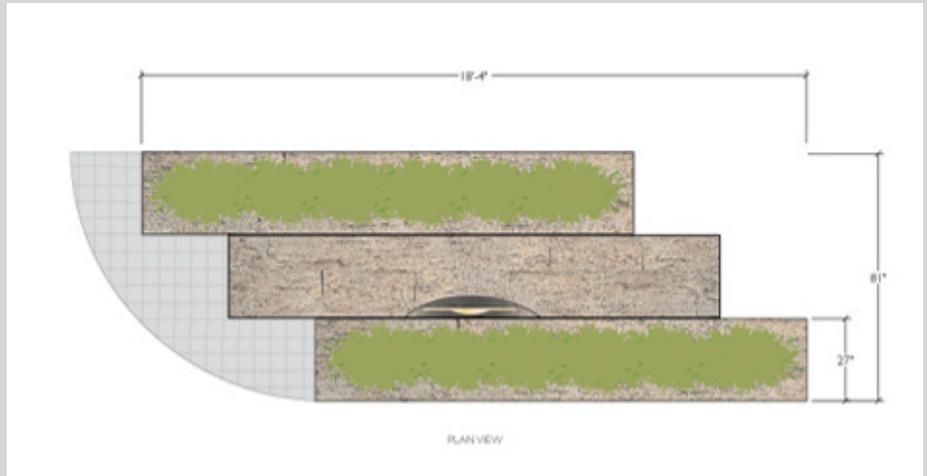
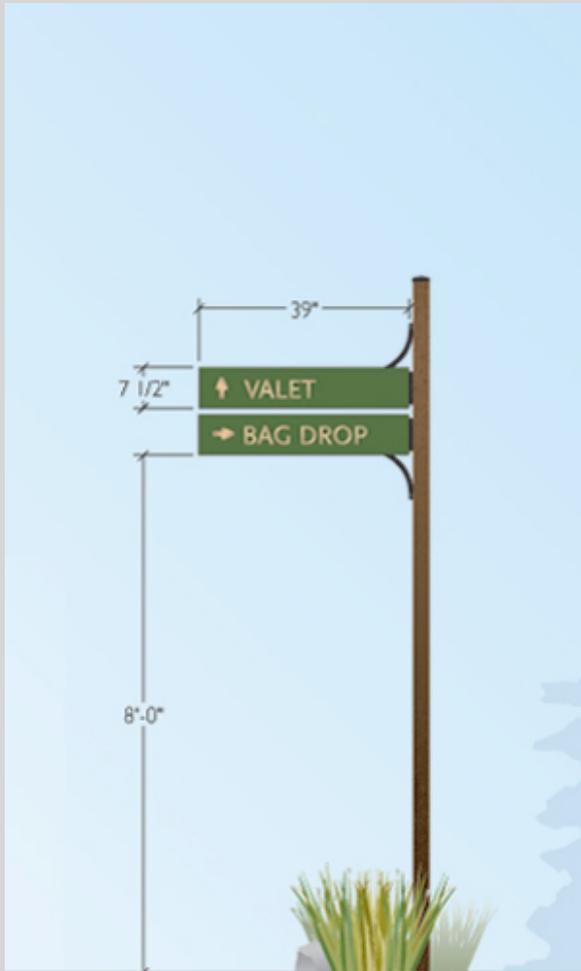


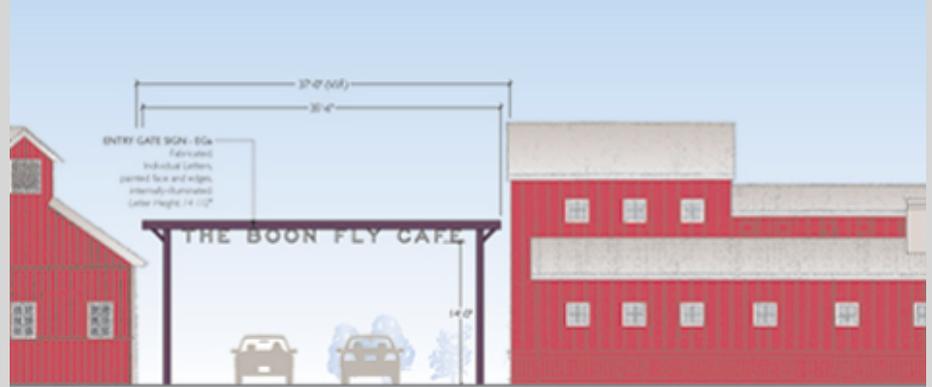
Macao Studio City / Cyber One Agents Ltd.
Macao, China





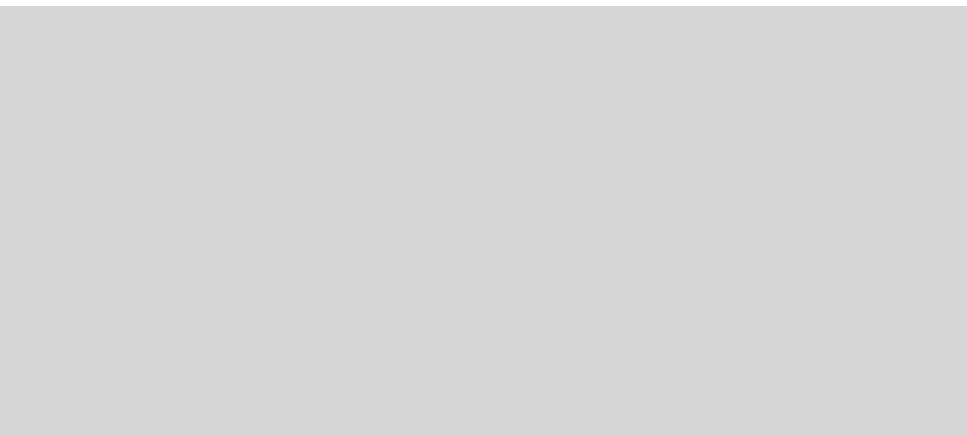
Sun Valley Resort / Sun Valley Co.
Ketchum, Idaho





Carneros Inn / Carneros Partners
Napa, California



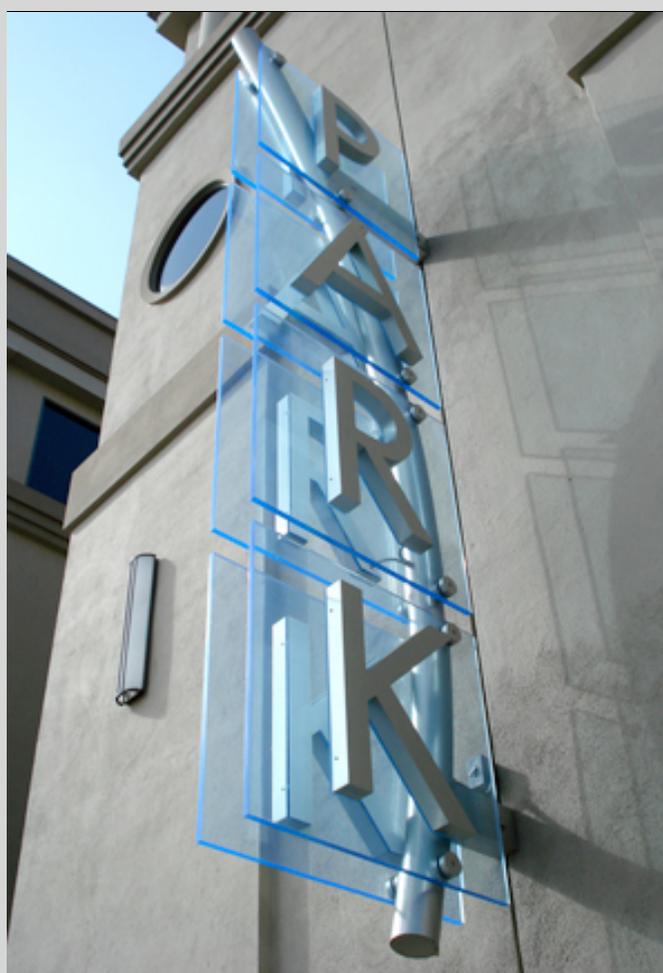


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[retail / mixed-use]



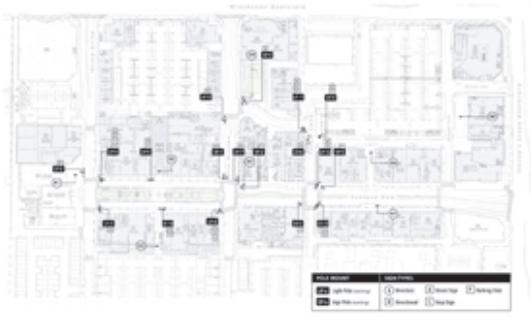
8000 Sunset Strip / Transwestern
Los Angeles, California



Bay Street Emeryville / Madison Marquette
Emeryville, California



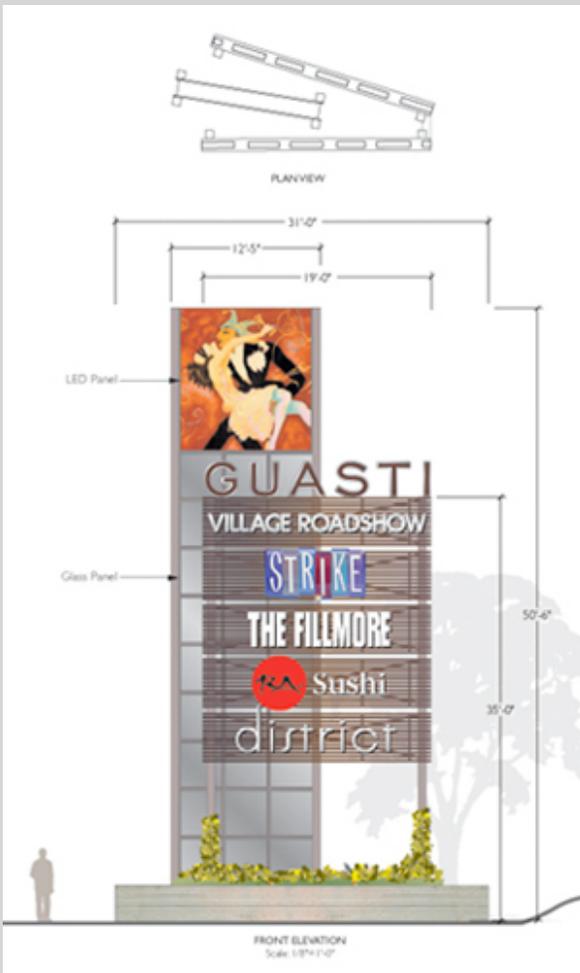
Santana Row / Federal Realty Investment Trust
San Jose, California



SCOTT | SAATCHI & SAATCHI
 www.usat.com
 Final Presentation / Dec 18, 2009



Guasti / Oliver McMillan
Ontario, California





Manhattan Village / Madison Marquette
Manhattan Beach, California

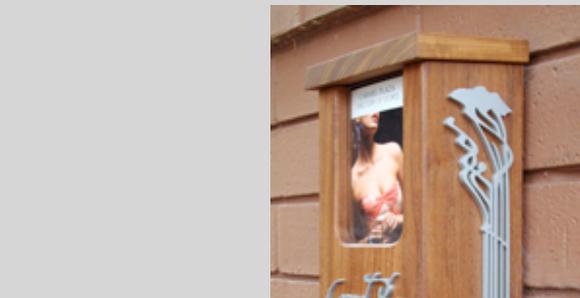




Broadway Market / Madison Marquette
Seattle, Washington



Serramonte Center / Capital + Counties
Daly City, California



Carmel Plaza / Macerich
Carmel, California



Westside Pavilion / Macerich
Los Angeles, California

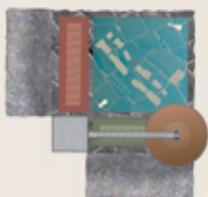




FRONT ELEVATION



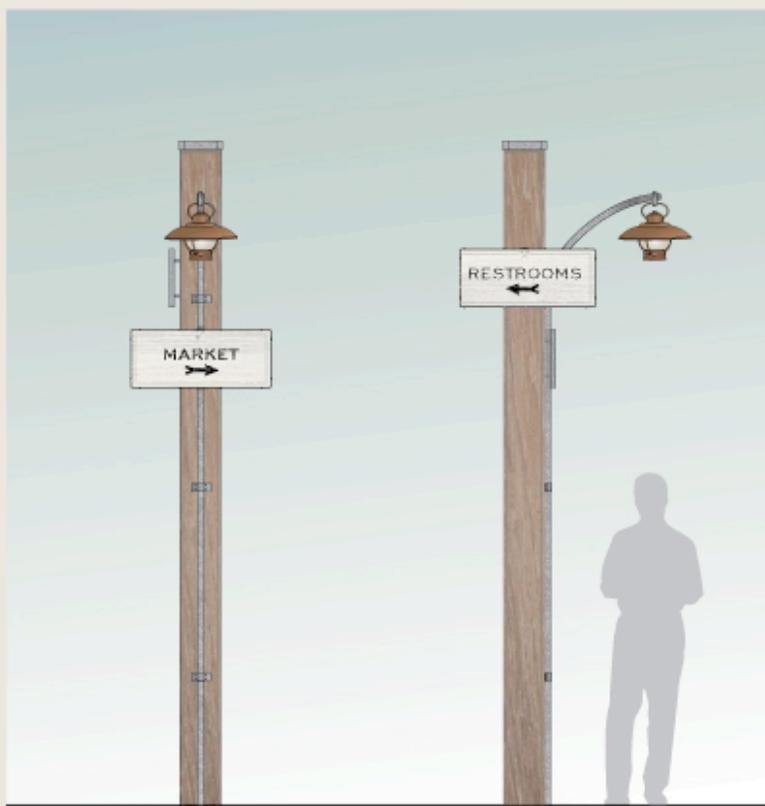
Kukui'ula / DMB
Kauai, Hawaii



PLAN VIEW

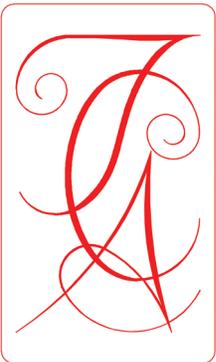


SIDE VIEW



FRONT VIEW

SIDE VIEW



**TRELLES
CABARROCAS**

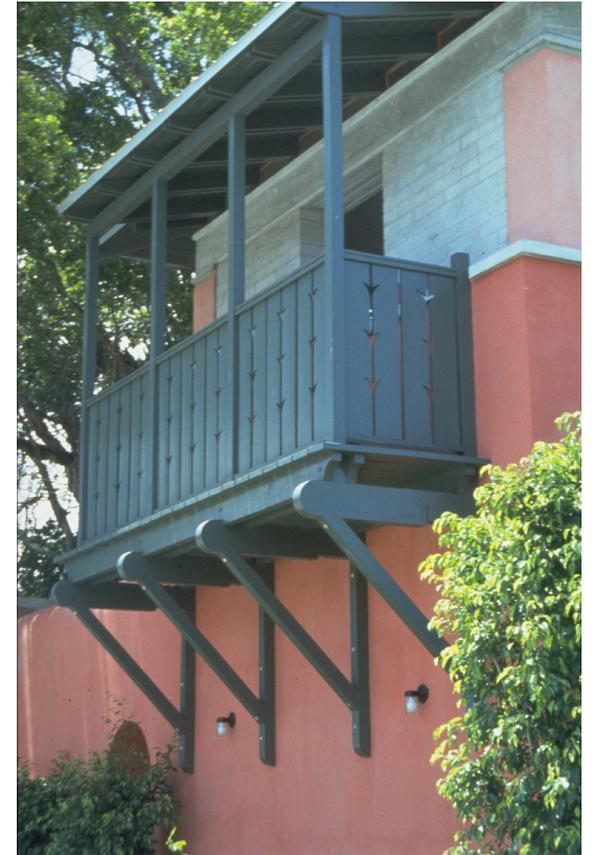
ARCHITECTS specializes in building design that is distinctly conceived and suited to its place. The office has nearly 25 years of experience building in the region, in urban design, architecture and construction projects for institutions and individual clients. All of the projects of the office share in the benefit of having enjoyed a most genuine commitment by the project team members at large. This effort, which always includes the Owner at the center of the production is steered through design and brought to building as a civic art. Revel all who will work to make this great contribution to the cities today. Following is a profile of experience which expresses the areas of work & contributions we will strive to make while working with Robert Truskowski, FASLA.



Waterfront Construction

Waterfront construction is an area of specialization of TCA, developed over some twenty years of experience with demanding sites in South Florida and the Florida Panhandle. In the Truman Waterfront Park, the building material pallets shall be genuinely Conch in character. The architecture of Key West and its rich and most resilient material pallets for buildings and landscapes are the natural concepts on the minds of the architects at this time. In public projects it is always vitally important to build toward achieving consensus through observation and participation, pursuing longevity in construction and green project goals by all standards (building management, LEED[®] and others).

TCA Projects to date on the waterfront include complete seawall replacements, new construction for private residences, mixed-use buildings, schools and gardens. TCA will work closely with Robert Truskowski, Inc. to deliver all phases of services as described in the future agreements; including Hardscape and Landscape coordination and all MEP, Civil and Structural Engineering services as may be required.



Natural materials and local methods of construction are important to the making of a genuine architecture. This is of paramount importance in the Truman Waterfront Park project, where integration in design will meet the distinctions of the City of Key West today.

The Tigertail House, located in Coconut Grove near the Villa Viscaya uses recycled Pine floor boards, lime base paints, metal roofs, load-bearing brick construction, locally produced CMU's and wood timber framing are the material palette for this new town-house in MIAMI.



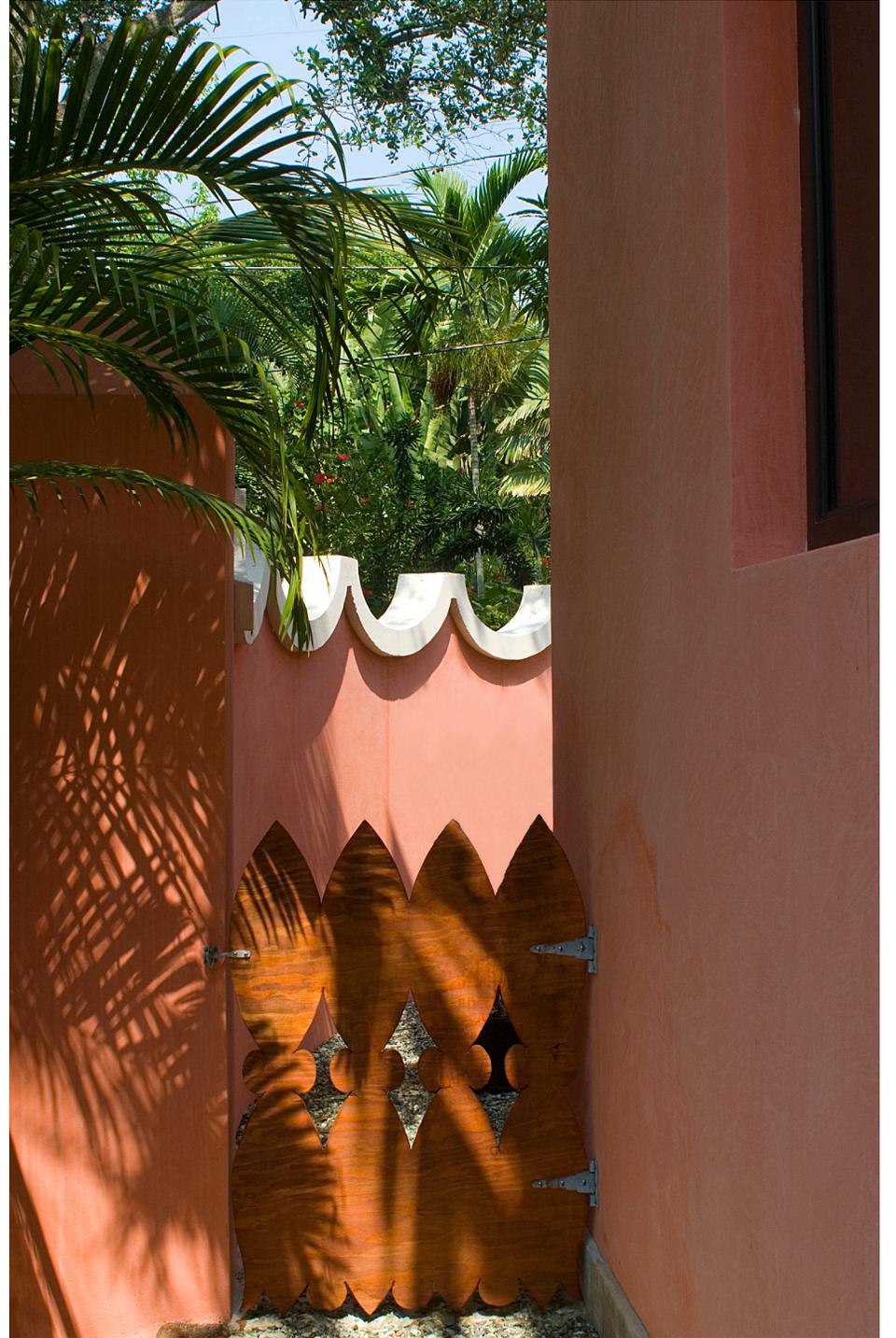


The architecture of different times, displaying different details, scale and character even, come together in a carefully studied, coordinated and composed campus-like settings on the waterfront.

At the Truman Annex, the Bahama Village and the new Park, the architecture and urban character of Key West is to be found within, in the beautiful historic buildings and porches, walls and fences and forts; the vicinity of the Little White House on the north and the Bahama Village on the south.

An example of the beautiful differences that may bind buildings to their sites; these houses on Biscayne Bay and Coconut Grove, and the junior high school, are united in their clean lines, terra cotta roofs, tinted stuccos and the making of shade with generous porch spaces.









Raúl Pedrosa / So

Waterfront Construction Details

Waterfront sites demand special details and innovation in building design to make the most of the space and light quality, as well as the healthy environments they offer. The demands of the saline environment, the levels of humidity and the flood over the site all inspire the dimensioning of the reinforced concrete covers in the spirit of Flagler's Overseas Railroad, as mass concrete protecting the structure, as stucco plaster further protects and embellishes.



Our projects demonstrate a concern for traditional construction techniques offered by the proximity of craftsmanship throughout the Caribbean. Local carpenter shops, cast concrete shops, and stone cutting are all within the reach of the beautiful Key West construction culture. Our work is characterized by an ability to design into a seamless and timeless tropical city, achieving absolute distinction and longevity. Our firm will express an architecture with the modern visions of Bob Truskowski's landscapes, and represent the city of Key West into its future.

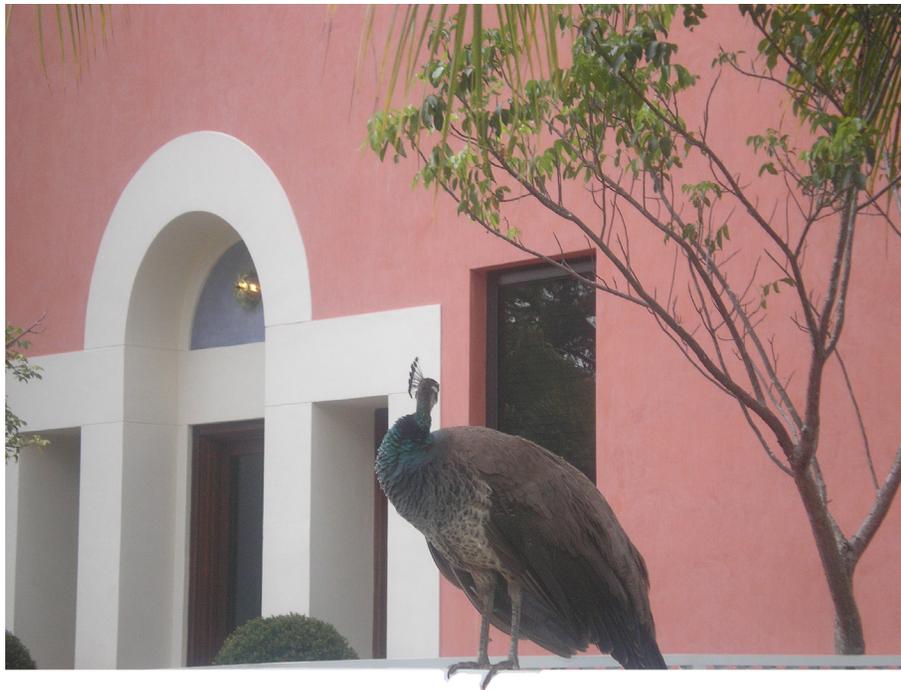


Character In the Mix of Building Traditions

The Bahamas, the West Indies, Cuba, the Florida peninsula, the U.S. Eastern Seaboard and the world indeed continue to define Key West. The Waterfront Park presents the possibility of real and lasting benefit and opportunity for all. The new lattices and louvers screening shaded porches, gardens, the public plazas and greens, all extend the ways and by-ways to the city's new waterfront. Presented here are examples of ways and by-ways in garden settings by TCA.



Our firm has been blessed by working on sites with a great variety of floral, tropical south Florida landscapes. Our relationship is established with material compositions and architectural elements that compliment the natural environment. An architecture inspired by locality and culture. Shown on this page is a project for a house overlook onto a historic quarry (Fairchild) in Snapper Creek, a junior high school addition to an original Biscayne Bay estate. Winner of a Florida AIA Merrit Design Award in 2002, a garden villa in a Miami Grove neighborhood and a shipping office for Stevedor's in Downtown Miami.





The Phase 1 Multi-Purpose Building will house the worship functions as well as serve as a religious education center for after-school and weekend classes until the future school is completed in the next phase of construction. When the school is completed, the building will serve as the Cafeteria and Parish Hall for the SKD community. The building features a ceremonial Portico as well as a Porte Cochere entrance, and it is in the Spanish Mediterranean style in keeping with the general architectural character of the city of Weston.

Environmental concerns are always an important consideration in all master planning efforts in Florida today. In this example, TCA is working at the edge of the Everglades with Landscape Architects, Civil Engineers, Biologists & Surveyors to satisfy the demands for water quality, native flora and new fauna habitats in an effort to restore a low-grade wetland to a measure of its prior functionality while facilitating the development footprint necessitated by the Owner. An example of this sort of landscape restoration can be witnessed immediately south of the site (pictured here on the right). The 19 acre site is to be developed over time, beginning with the Phase 1 Multi-Purpose Building and proceeding to the future School & Church. Shared parking facilities and field parking contribute to the further greening of the site.

Architecture and the Environment

TCA will study the design of buildings and present them for review and approval by the LRA, including all material selections, inside and out. Architecture is integral to the design concepts related to the landscape as well as the interior environments to be developed. It will play the decisive role in well integrated solutions to large site planning projects such as the Truman Waterfront Park.

In the drawing to the right, we see a 30 x 40 inch oil pastel drawings developed in the schematic design phase of work for the SKD project. These drawings are used to assist the Owner in the review of the spaces designed and with the selection of color and materials. In this case, they are also used for public display, assisting the Pastor and his Cornerstone Committee in communicating the planning concepts and schematic designs to the parish community at large.

TCA and RTI will work with the LRA to test and study the planned improvements to the site with virtual modeling and physical models to achieve an in-depth understanding of the building designs, design of the pedestrian spaces and traffic flows throughout the site. All modeling will work from the digitized plans, sections and elevations through the design process.



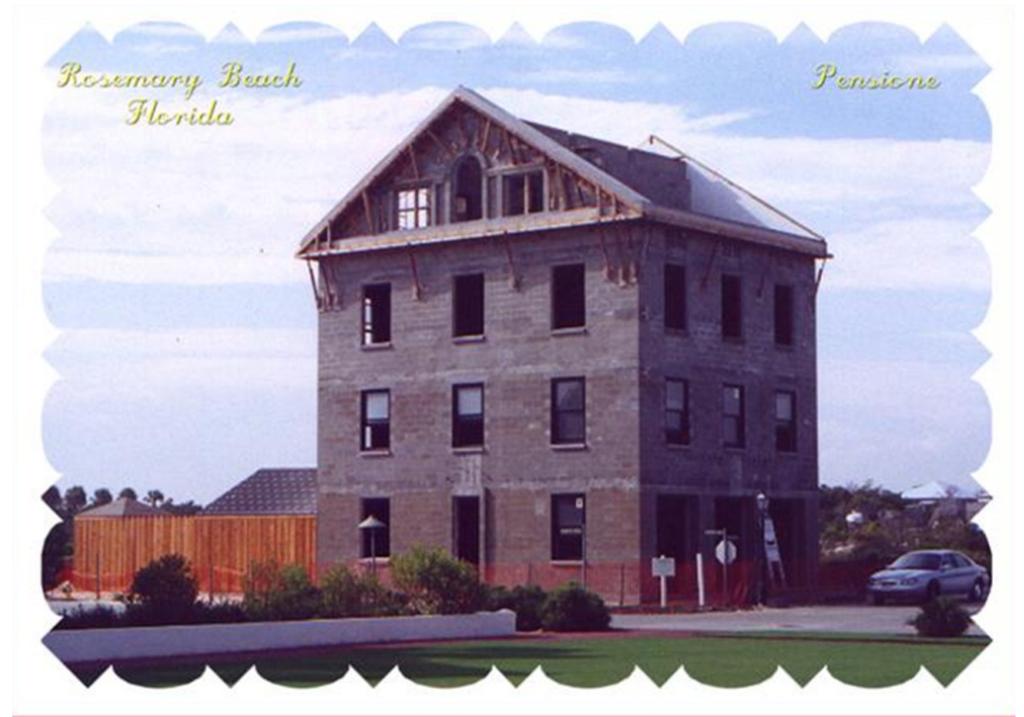
A Key West Style B & B

The Pensione at Rosemary Beach features eight guest rooms with bathrooms in suite and the Owners apartment in the roof. The ground floor houses a sidewalk café and bistro restaurant.

This is a fee-simple mixed-use building for private commercial developers, a husband and wife operating within the scope of the land company development offerings in the new resort town, just six miles east of Seaside on the Gulf of Mexico.

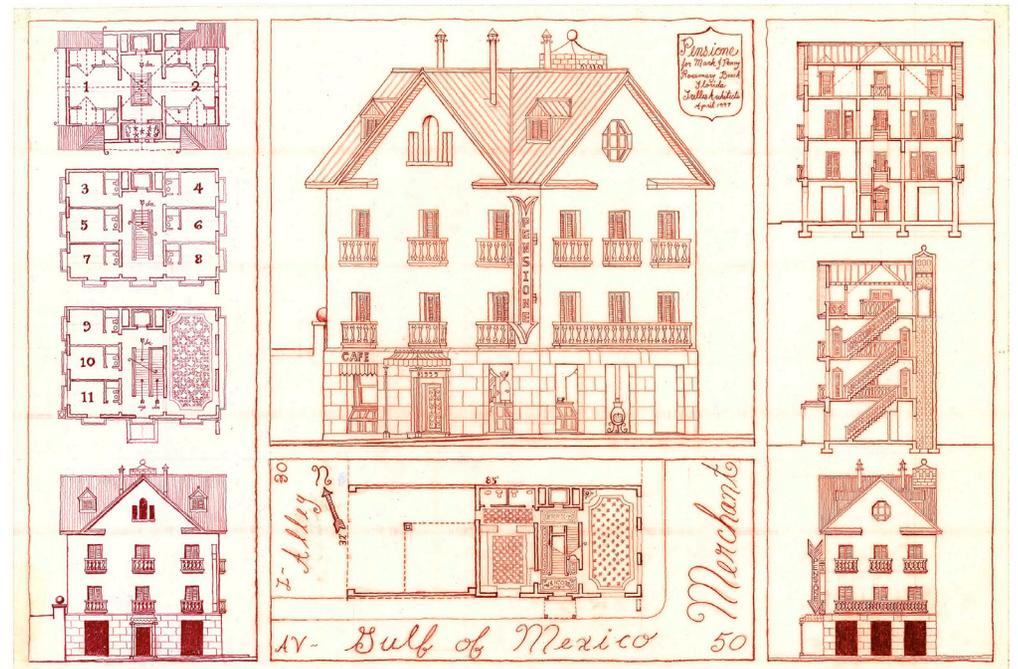
Stemming from their prior experience as small-scale developers, the Owners build-out the commercial opportunity at the center to the town with a bed and breakfast and a restaurant. Their years of experience with the Townhouse at Seaside would inform the programming of this building, and the business plan.

At upper right is a fictitious post card made up by TCA, with a view of the building under construction in the rapidly growing new town. At lower right is an example of a design presentation drawing presented to the Owners for their initial reviews of the preliminary designs.



Urban Waterfronts and Mixed-Use Buildings

TCA brings experience in the design and construction supervision of urban, mixed-use buildings for waterfront resort development sites in Florida. The Townhouse for Seaside, the Pensione for Rosemary Beach, and the Magnolia Boardwalk House are noteworthy examples of fee-simple projects which contribute individually to the collective character of the waterfront town centers for which they are designed. These projects are located on the north shores of the Gulf of Mexico.



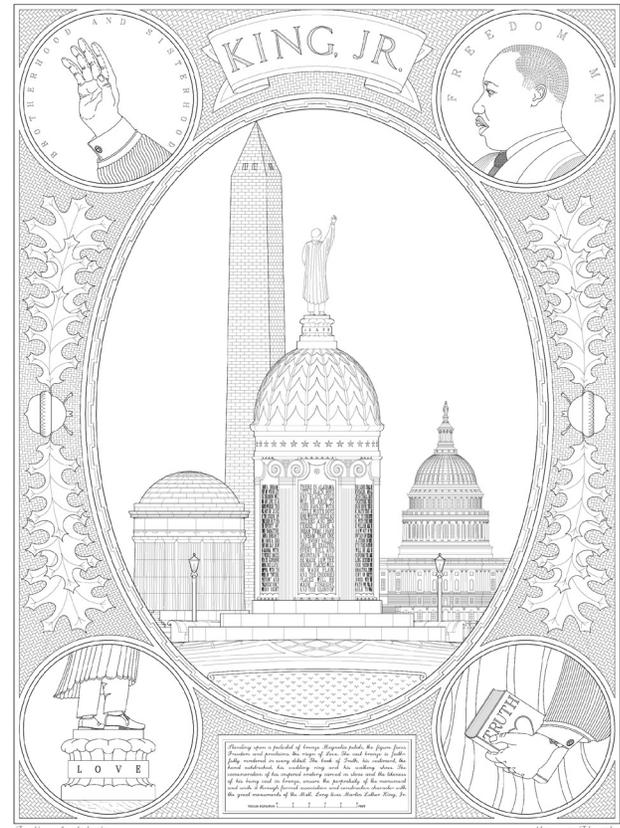
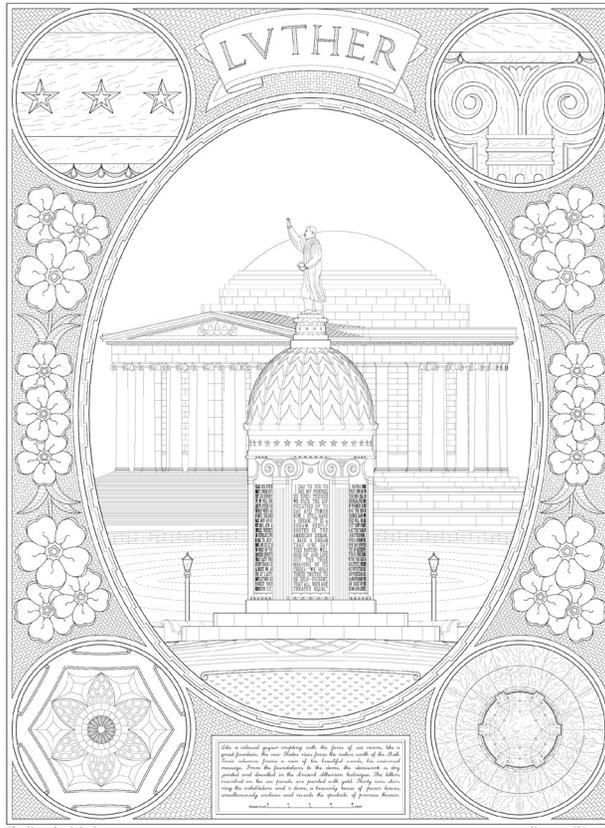
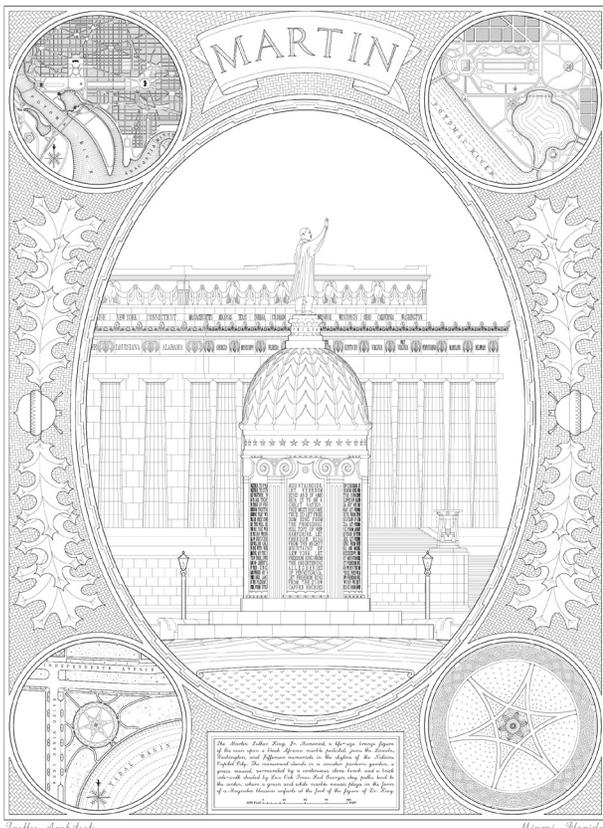




Pensione for Rosemary Beach, Florida

Corner street location showing cypress garage building and front opening of Pensione. Highlighted by a large, cast in place concrete pediment to express its Italian American theme.

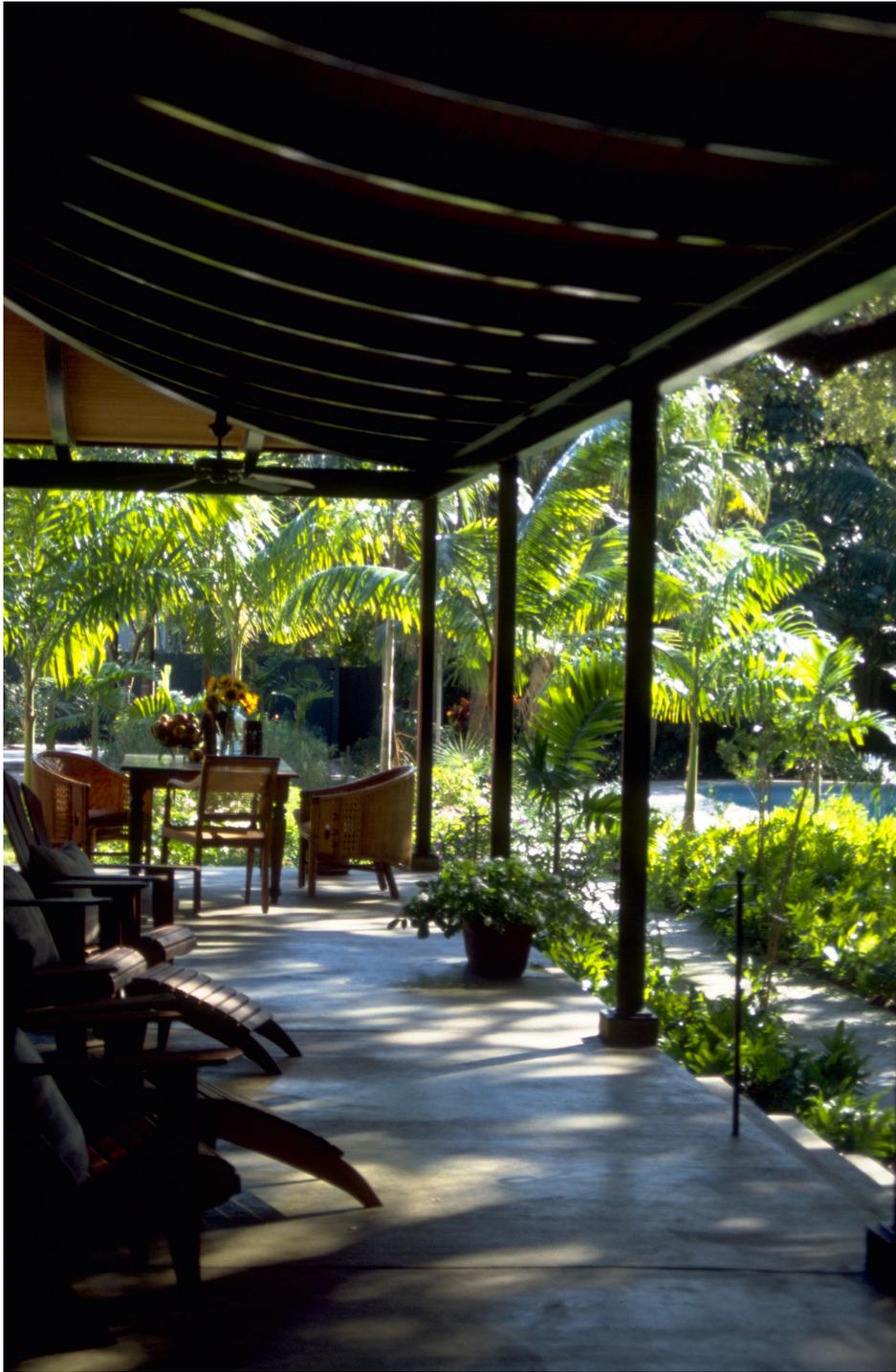




Martin Luther King, Jr. Memorial

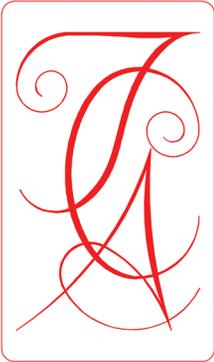
The Martin Luther King, Jr. Memorial Competition entry by TCA is an example of the expertise this office brings to the design of historic markers. In this memorial design, the Architecture of the Mall in Washington, D.C. is united with the recognizable figures and meaningful icons that have come to be associated with Dr. King, his life and his work. This waterfront site is located at the northwestern shore of the Tidal Basin. The monument is centrally positioned between the Lincoln Memorial, the Washington Monument and the Jefferson Memorial. This entry to the international competition was drawn in the year 2000.

The remaining images are of three modest houses. They express our firm's ability to transcend economies with the use of common materials and innovative construction methods. The industrial steel components of the Notoma House porch blend into the vertical, tropical palm hammock. The exposed concrete masonry pillars of the Tiger Tail House bedroom cabin elevate it from the natural creatures of the garden below. The cypress shingles and slat boards of the Magnolia House's sleeping porch capture the gulf breezes for sleeping and shelter.









TRELLES CABARROCAS ARCHITECTS

Firm Profile

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Tel (305)373-1960
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trellesarch@earthlink.net
www.trellescabarrocas.com

Principals:

Luis Trelles, AIA
President

Registration: FL AR 11848
Design, Technical Coordination with Engineering, Cost Estimating, Permitting

Jorge Trelles
Vice President

Registration: FL AR 95316
Design, Artistic Direction, Coordination with Landscape Architecture, Construction Phase Services

Mari Tere Trelles Cabarrocas

Secretary

Design, Client Relations, Marketing, Human Resources

Consulting Structural Engineer:

Zvonimir T. Belfranin, P.E.

FL Reg. No. 33074
4836 S.W. 74 Court
Miami, Florida 33155
Tel (305)669-0255

Consulting Mechanical, Electrical and Plumbing Engineer:

Gustavo Solano, P.E.

FL Reg. No. 34923
7410 S.W. 48 Street
Miami, Florida 33155
Tel (305) 665-6151

Publications:

Trelles Cabarrocas Architects.

Javier Cenicacelaya, editor. Bilbao, Spain: ACAM Ediciones, 2008.

Casas Internacional - Trelles Cabarrocas Architects.

Compiled by Luis Trelles. Buenos Aires, Argentina: Kliczkowski, 2008.



Civil Engineering Services

MSA provides comprehensive Civil Engineering services for governmental agencies, municipalities, utilities, educational facilities, parks & recreational facilities, institutional and land development projects, and private clients, among others.



Our services have included planning, design, permitting and construction services during construction of a wide range of projects that include expertise in the following areas:

- Master Planning
- Water & Wastewater
- Stormwater Management
- Land Development
- Construction Management
- Roadway & Drainage
- Permitting



Locations

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 Fax: (305) 441-0688

West Palm Beach
 2257 Vista Parkway, Suite 19
 West Palm Beach, Florida 33411
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 200 N. Andrews Avenue, Suite 300
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www.milianswain.com



Milian, Swain & Associates, Inc.

Civil Engineers
 Environmental Scientists & Engineers
 Financial & Utility Management Consultants



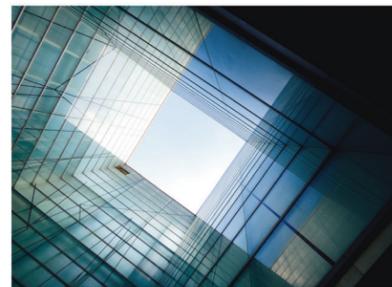
Who we are & What we do

Environmental Services

Financial & Management Services

Milian, Swain & Associates, Inc. (MSA) is a multiple disciplined, full-service firm that specializes in providing Civil and Environmental Engineering, Financial & Management Consulting Services. MSA was incorporated in January 1989 and is a MBE (100% minority owned) firm with a diverse ethnic workforce and a proven commitment to affirmative action.

MSA is proud of its long history of providing professional engineering services and financial and management consulting services to government, private and municipal clients.



Prior to 1989, all key members of MSA's management consulting staff worked together in various capacities for one of the largest developer-owned water & wastewater utilities in Florida, thus providing clients with a team that has proven itself by working together over the years.

MSA's corporate plan has changed little since its inception – to fulfill the needs of its clients by providing integrated consulting services.

Mission Statement

"We are a diverse organization of highly trained and motivated professionals dedicated to providing customer satisfaction through quality service, adherence to deadlines and meeting budgets. We will conduct all of our business with honesty and integrity".

Our Firm provides full professional services in the following areas:

- Civil Engineering
- Environmental Engineering & Science
- Financial and Utility Management Services

MSA delivers the expertise of highly experienced environmental professionals to each of our clients. Our staff members have held positions within the U.S. Army Corps of Engineers, South Florida Water Management District, U.S. Fish and Wildlife Service, Florida International University's Southeast Environmental Research Center and the Miami-Dade Department of Environmental Resources Management (DERM). Our goal is to custom tailor our project approach and methodologies to best suit the needs of our clients.

Our work spans over multiple disciplines including:

- Environmental Monitoring
- Experimental Design, Implementation & Reporting
- Geographic Information Systems (GIS)
- Environmental Permitting
- Environmental Documentation
- Roadway & Drainage
- Permitting



MSA is committed to providing a team of highly qualified senior-level personnel who can provide water and wastewater utility financial and management services to our clients. Prior to the inception of MSA, while serving in senior management positions for the utility subsidiaries of one of the largest investor owned utility companies in the State of Florida, members of our team were responsible for the procurement of financing, the preparation and control of all capital and operational budgets, the calculation of revenue deficiencies and revenue requirements, rate design, including determination and implementation of conservation water rates as well as the calculation and implementation of capital expansion fees, allowance for funds prudently invested (AFPI) and miscellaneous service charges.



We provide the following services among others:

- Cost of Service & Rate Studies
- Capital Planning & Funding
- Business Process Analysis & Improvement
- Specific Financial & Management Services

1. MSA QUALIFICATIONS & EXPERIENCE

Milian, Swain & Associates, Inc. (MSA) is one of South Florida's most prominent civil and environmental engineering firms, located in Miami-Dade County since its inception in 1989. MSA is a 20 person firm with offices within the City of Miami and in West Palm Beach, Florida, specializing in providing Civil, Environmental Engineering, Financial and Management Consulting Services. MSA is a CBE/MBE (100% Hispanic and woman owned) firm with a diverse ethnic workforce and a proven commitment to affirmative action.

MSA is proud of its 22 year history of providing professional engineering services to private, public and municipal clients in South Florida. Our firm's experience includes planning, design, permitting and services during construction for a wide range of projects that include expertise in the following areas:

- Civil Infrastructure Master Planning for public and private sector clients.
- Design of Upgrades for MDWASD Sanitary Sewer Pump Stations.
- Design of Water Transmission and Distribution Systems, including hydraulic analysis to verify fire and domestic flows.
- Design of new Sanitary Sewer Collection Transmission and Pumping Systems.
- Design of roadway improvements, for private developments and municipal clients.
- Obtaining permits/approvals for municipal infrastructure and environmental projects from the jurisdictional regulatory agencies, including Miami-Dade DERM (Class I thru Class VI) and Environmental Resource Permits (ERP) from SFWMD, FDEP, and USACOE.
- Expediting Environmental Approvals for projects located in environmentally sensitive areas of Miami-Dade County.
- Program and Construction Management Services including scheduling, cost estimates, inspections and post-construction certifications.
- Economic Feasibility and Environmental Impact Studies.
- Wetlands Restoration and Mitigation Programs development and implementation.
- Site and facility environmental audits
- Engineering and Financial Systems development, implementation and training

Arsenio Milian, P.E., President, has over **38 years of experience** in civil and environmental engineering including design, operations, construction, permitting and management of Water and Sewer Systems. He served as Engineer, Vice President and President of the largest developer owned water & wastewater utilities in Florida. His experience as Principal Engineer in the recently completed upgrades to MDWASD Pump Stations P.S. 862, 863, 1003 and 1009, provides valuable technical oversight and expertise to the MSA Team for this contract.

He has been accepted as an expert, and has provided testimony before several agencies in the State of Florida. Mr. Milian is **President and founder of Citizens for a Better South Florida**, an organization that promotes the safeguarding of South Florida's natural resources. He has also been honored by receiving several prestigious awards from the environmental community as recognition of his exemplary commitment to preserving Florida's unique and irreplaceable natural environment. In recognition of his community minded track record, Mr. Milian has been appointed by three different Governors to assist in statewide areas of concern. For instance, in 1987 he was appointed by Governor Martinez as a **Member of the Governing Board of South Florida Water Management District**, in 1991 Governor Chiles appointed him to the State of Florida Environmental Land Management Study Committee (ELMS III), and in 1999 Governor Bush appointed him to the Florida Forever Advisory Council. He currently **serves at the National Council of the Wilderness Society**.

Julio Menache, Director of Civil & Municipal Engineering, will be the selected project manager for this assignment. Mr. Menache has over **20 years of experience** in the design of civil infrastructure improvements throughout Miami-Dade County, including master planning, design, permitting and construction management of water distribution, sewage collection, transmission and pumping systems. Mr. Menache's proactive attention to detail and responsiveness to the Client during all project phases has ensured successful project results; "on time & budget". During his 12 year tenure with MSA, he has successfully managed the completion of numerous water and sewer improvement projects in South Florida. He has served as project manager and lead designer on numerous projects for municipal clients such as Miami-Dade Water and Sewer Department, City of Miami C.I.P. Department, City of Miami CRA, Miami-Dade County Parks and Recreation Department, Miami-Dade County Public Works Department, Village of Pinecrest, Miami-Dade County DERM, and Miami-Dade County Transit Department. Mr. Menache has managed the design, permitting and post-design phases of multiple civil infrastructure v improvement projects in Dade County in the last ten years, including: *24" and 16" Forcemain Improvements at Homestead Airforce Base (MDWASD)*, *36" Forcemain Extension on SW 157th Avenue (MDWASD)*, *P.S. 372 and 12-inch Forcemain Extension (CPHI)*, *Cutler Estates Regional Pump Station and Forcemain (Shoma)*, *Opalocka Airport Sewer Master Plan (MDAD)*, *Construction Management assistance for P.S. 862 & P.S. 1003(MDWASD)* and *Pine Island Sewer Improvements – 4 Master Sewage Lift Stations and Low-pressure Forcemains (National Park Service)*. Also design, permitting and construction management services for the *Old Spanish Village development in Coral Gables* and *Civil & Environmental Engineering services for the development of Scott-Carver Homes, Hope VI Redevelopment*.

Deborah Swain, Vice President, leads MSA's management, finance, accounting, and public relations team. She has over **25 years of experience** in utility management, accounting, finance, rate regulation and rate design. She provides management consulting and financial services to public and investor-owned utilities. Included in her consulting services is an extensive large group facilitation experience. In one project, individuals in various organizations representing different socio-economic groups have been brought together to develop strategic plans, and implement organizational changes resulting in significant cost savings to the group.

ARSENIO MILIAN, P.E.

President

EXPERTISE

Mr. Milian has over 38 years of experience in Environmental and Civil Engineering, management, design, permitting and operation of utility and solid waste systems. Below is a summary of recent major projects he has worked on.

EXPERIENCE

Principal Engineer

Pump Station Nos. 862, 863, 1003, and 1009

Miami-Dade Water and Sewer Department- Miami-Dade Co., FL.

Design of various sanitary sewer pump station upgrade projects for the Miami-Dade Water and Sewer Department (MDWASD). These projects include the retrofit of the upgraded pump, station reconfiguration from wet-dry to submersible systems, yard piping modifications, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost.

Project Manager

Preston and Hialeah Water Treatment Plants – Control of Disinfection By-Products (Phase 3)

Miami-Dade Water and Sewer Department- Miami-Dade, FL

Responsible for directing and overseeing the work related to the engineering services provided for the startup, calibration and long-term operations of the Ozone/GAC and Membrane pilot plants located at Preston and Hialeah Water Treatment Plants.

Principal in Charge

Hialeah Water Treatment Plant Emergency Overflow

Miami-Dade Water and Sewer Department - Miami-Dade County, FL.

Responsible for directing and overseeing the work related to the engineering services provided to Miami-Dade Water and Sewer Department for the Hialeah Water Treatment Plant emergency overflow improvements.

Project Manager

Water Supply Master Plan- Capital Improvements

Miami-Dade Water and Sewer Department – Miami-Dade Count, FL

Responsible for coordinating all work related to a water supply master plan for Miami-Dade Water and Sewer Department (MDWASD). Coordinated the review of the water demand projections by MDWASD. Directed the preparation of a senior review of the preliminary Capital Improvement Plan (CIP). Assisted in the development of funding options for the CIP. Coordinated the assistance for the development of conclusions and recommendations for the final report.

Project Manager

Wastewater Reuse Feasibility Study Update

Miami-Dade Water and Sewer Department – Miami-Dade County, FL

Mr. Milian coordinated all work related to the services provided to Miami-Dade Water and Sewer Department for the completion of a Wastewater Reuse Feasibility Study Update. Responsible for reviewing current and proposed regulations and policies from the different pertaining agencies. Assistance with the identification of potential suitable users for reuse. In charge of coordinating the preparation of an updated reuse feasibility report and responsible for responding to inquiries about the reuse plan proposed.

ACADEMIC BACKGROUND

Bachelor of Civil Engineering - University of Florida - 1967

Master of Engineering, Biological Waste Treatment - University of Florida - 1968

PROFESSIONAL CERTIFICATION & AFFILIATIONS

- Florida Professional Engineer No. 13134
- American Waterworks Association
- American Society of Civil Engineers
- Citizens for a Better South Florida - President
- Florida Waterworks Association
- Miami River Stormwater Sub-Committee - Chair
- National Audubon Society - Board of Directors
- The Nature Conservancy, Florida Chapter - Board of Trustees
- Water Pollution Control Federation

ARSENIO MILIAN, P.E.

President

Principal Engineer

Ives Estate Park Wastewater System Improvements

Miami-Dade County Park and Recreational Department - Miami-Dade County, Florida

Prepared construction documents to abandon the existing septic tank serving the park as well as plans for a new submersible sewage pumping station and 570 feet of associate sanitary force main. Coordinated the permitting process associated with this project.

Principal Engineer

Ojus Park Wastewater System Improvements

Miami-Dade County Park and Recreational Department - Miami-Dade County, Florida

Prepared construction documents to abandon the existing septic tank serving the park as well as plans for a new submersible sewage pumping station and 475 feet of 8-inch sanitary force main. Coordinated the permitting process associated with this project.

Principal in Charge

72" Force Main Repair Regulatory Process

Miami-Dade Water and Sewer Department - Miami, FL

As a result of a tugboat maneuvering in the vicinity of Brickell Key and the South side of Dodge Island, an active 72-inch diameter sewage force main owned by the Miami-Dade Water and Sewer Department (MDWASD) was ruptured which caused a spill of approximately 11 million gallons of raw sewage into Biscayne Bay. MSA assisted MDWASD in obtaining Emergency Authorizations to repair the ruptured sewage pipe from the Florida Department of Environmental Protection (FDEP) and Miami-Dade County Department of Environmental Resources Management (DERM).

Principal in Charge

54" Force Main Repair Regulatory Process

Miami-Dade Water and Sewer Department - Miami, FL

An active existing 54-inch diameter sewage force main owned by the Miami-Dade Water and Sewer Department (MDWASD) was ruptured due to construction activities, which caused a massive spill of raw sewage into Biscayne Bay. Assisted MDWASD in expediting Emergency Authorizations to repair the ruptured sewage pipe from FDEP and DERM. Prepared all the ERP and Coastal Permit design exhibits and documentation.

Regulatory Advisor

Wastewater Reuse Feasibility Study and Alternative Water Supply Plan

Miami-Dade Water and Sewer Department - Miami, FL

Directing the regulatory component of the Reuse Feasibility and Alternative Water Supply Study, including identifying regulatory constraints and determining project alternatives for further evaluation. Participating in public and regulator input workshops. Making special presentations to Senior Management and County Commissioners as needed.

President / Chief Engineer

Water Systems - Community Development

Deltona Corporation Utility subsidiaries - Throughout Florida

Resource management planning, design, construction and permitting of water systems including location and assessment of underground potable water sources, water supply wellfields, treatment, storage and high service pumping, transmission and distribution for all Deltona Corporation communities. Treatment systems included planning and design of lime softening and iron removal plants.

President/Chief Engineer

Raw Water Augmentation Program

Deltona Utilities, Inc. - Marco Island, FL

Managed design of two 250 hp raw water pumping facilities with related emergency generation system, and a telemetry system to operate in conjunction with all existing raw water pumps. In addition, managed the design of more than five miles of 18" raw water mains to convey the withdrawn water to a point of interconnection with an existing 24" line located east of Henderson Creek in Collier County.

JULIO M. MENACHE

Director – Civil and Municipal Engineering

EXPERTISE

Mr. Menache has over 20 years of experience in Design, Specifications, Civil/Environmental Permitting, Bidding and Construction Phases of Private and Public Sector projects in South Florida. Below is a summary of recent major projects he has worked on:

EXPERIENCE

Project Manager

12-inch Sewage Force Main & Regional Pump Station Community Partnership for the Homeless - Miami, FL.

Design of 1,500 LF of 12 inch force main and **MDWASD regional pump station** to serve the new 82 acre development on SW 127 Avenue and SW 280 Street, including permitting and construction phase services.

Project Manager

Pine Island Pump Station & Forcemain Improvements National Park Services - Miami-Dade County, FL.

Design and specifications for a new low-pressure sewage transmission and pumping system to include **4 master pump stations, 17 lift stations** and 9,000 LF of low-pressure sewage force mains to serve the Everglades National Park Headquarters and Pine Island Housing facilities in Southwest Miami-Dade County.

Project Manager

MDWASD Pump Station Nos. 862, 1003, 1009, 372, 177, 1233 Miami-Dade Water and Sewer Department – Miami, FL.

Project Manager leading the MSA Design Team (survey/geotechnical/engineering) for the installation of various **sanitary sewer pump station upgrade projects** for the Miami-Dade Water and Sewer Department (MDWASD). These projects include the retrofit of the upgraded pump, station reconfiguration from wet-dry to submersible systems, yard piping modifications, development of the contract documents (drawings and technical specifications), and participation in the permitting/bidding/construction phases of forcemain and gravity sewer extensions.

Project Manager

Ives Estate, Lake Lucerne, Oak Grove Ojus and Rolling Oaks Parks Sewer Improvements Miami-Dade County Parks Department - Miami-Dade County, FL.

Design of various **pump station/force main** and sanitary sewer collection system improvements to provide sewer service to existing park recreational facilities for the Miami-Dade Parks & Recreation Department (MDPRD), inclusive of the abandonment of existing septic tanks, specifications and permitting.

Project Manager & Lead Designer

SL-726 Force Main Extension

Miami-Dade Water and Sewer Department - Miami-Dade County, FL.

Analysis and design of approximately 11,000 LF of 16-inch, 12-inch and 8-inch DIP sewage force main in South Miami Dade County to relieve N.A.P.O.T. of **pump station 726**, including specifications per MDWASD standards and obtaining approvals from MDWASD and Miami Dade County DERM.

Project Manager

Homestead Air Force Base, Phase I Water and Sewer Improvements

Miami-Dade Aviation Department - Miami-Dade County, FL.

Design, specifications and permitting of approximately 20,000 LF. of large diameter transmission water mains, 7,000 LF. of 12-inch sewage force mains, 3000 LF of 8 to 12-inch gravity sewer mains, service laterals and **2 MDWASD Regional Sewage Pump Stations** with Emergency Generators and Fueling facilities to serve future development(s) within Homestead Air Force Base (HAFB).

ACADEMIC BACKGROUND

Bachelor of Science in Civil Engineering – University of Miami
1987

Associates in Arts – Miami-Dade
Community College 1981

PROFESSIONAL CERTIFICATION & AFFILIATIONS

- Florida E.I. No. 1088ET188
- American Society of Civil Engineers
- American Public Works Association
- American Water Works Association

JULIO M. MENACHE
Director – Civil and Municipal Engineering

Project Manager

36-inch DIP Force Main Extension

Miami-Dade Water and Sewer Department - Miami-Dade County, FL.

Analysis and design of approximately 19,000 LF of 36 inch DIP sewage force main in West Miami Dade County, including design of a new Subaqueous Crossing of the SFWMD C1-W Canal, Jack & Bore crossing of the CSX Railroad Right of Way, Pipe Joint Restraint Analysis and Connections within FDOT Right of Way in conformance with MDWASD, FDEP, SFWMD, DERM and FDOT requirements.

Project Manager

Scott-Carver Homes; Hope VI Redevelopment

Tetra-Tech - Miami, FL

Responsible for the quality control of all civil engineering work related to the development of the Scott-Carver Homes; Hope VI Redevelopment Project, a proposed phased residential development located in Miami-Dade County, Florida. Work on this project included environmental site assessment, civil design & master planning, permitting services and construction administration services.

Project Manager

City of Coral Gables - Old Spanish Village

Ponce Circle Developers, LLC - Miami-Dade County, FL.

Project Manager in charge of coordinating all work related with the design, permitting and construction administration of the civil infrastructure required for the development of Old Spanish Village, located in the City of Coral Gables in Miami, FL.

Project Manager

Hialeah Water Treatment Plant Emergency Overflow

Miami-Dade Water and Sewer Department - Miami-Dade, FL.

Design of construction drawings and specifications for the proposed improvements, to include modifications to the existing finished water reservoir overflow structure, installation of an underground positive discharge outfall from the overflow structure, south along West 2 Avenue, crossing Okeechobee Road and ending at the northerly bank of the C-6 Canal. In addition, assisted MDWASD in obtaining approvals for the proposed improvements from FDOT, FDEP, SFWMD and City of Hialeah.

Project Manager

Homestead Air Force Base Phase II Water and Sewer Improvements

Miami-Dade Water and Sewer Department - Miami-Dade County, FL

Managed the preparation of construction documents, joint restraint analysis, specifications, and permitting of 6,000 LF of 24-inch water mains, 3,500 LF of 16-inch sewage force main connecting to an existing 48-inch public force main in conformance with MDWASD standards. In addition, coordinated all the post-design efforts such as review of shop drawings, construction observations and certification of the water and sewer mains.

Project Manager

Water and Wastewater Annual Report

Broward County Utilities - Broward County, FL.

Coordinated preparation of the water and wastewater systems annual report for the Broward County Office of Environmental Services (BCOES). The report includes the inspection of **7 master sewage pump stations, 25 lift stations**, water and wastewater treatment facilities and recommended improvements.

DEBORAH D. SWAIN

Vice President

EXPERTISE

Ms. Swain is the Vice President and Principal of MSA's Financial and Management Consulting Services with 30 years of experience specializing in Water and Wastewater Utilities, including management, financial planning and modeling, accounting, systems development, rate regulation, rate design, revenue deficiency studies, and cost of service studies.

EXPERIENCE

Lead Senior Consultant

Contract Management – Post Construction Contract Analysis & Forensic Accounting Services - Miami Dade County Water & Sewer Department

Participated on project for Miami-Dade County, requiring investigation, analysis, financial determination, and preparation of possible litigation related to the Water and Sewer Department's Pump Station Improvement Program (PSIP). The project required reviewing contracts, payments, invoices, change orders and other documentation to determine potential overpayment under select contracts.

Project Manager

Financial Feasibility for New RO Water Treatment Plant City of Hialeah – Hialeah, FL

Responsible for conducting a financial analysis to determine the feasibility of constructing an Upper Floridian Aquifer reverse osmosis water treatment plant. Analyzed various scenarios considering different phasing schedules and several funding sources. Results will be used by the City to determine whether they will proceed with the construction of the facility, and the appropriate phasing.

Project Consultant

Wastewater Reuse Feasibility Study Update - Miami-Dade Water and Sewer Dept. – Miami, FL

Responsible for all public involvement aspects of the services provided to Miami-Dade Water and Sewer Department for the completion of a Wastewater Reuse Feasibility Study Update. In charge of coordinating and facilitating all required stakeholders meetings. Responsible for attending meetings with regulators in support of work effort. In addition, Ms. Swain performed the economic and present value analysis, components of the reuse feasibility report.

Project Manager

Water and Wastewater Master Plan - City of Ft. Lauderdale Water and Sewer Department

Directed the financial component of the City's Water and Wastewater Master Plan evaluating and recommending a combination of user fees, connection charges, bonds and grants.

Project Manager

Waterworks 2011 - City of Ft. Lauderdale Water and Sewer Department

Directing the financial component of the City's Water and Wastewater, ten-year \$700 million Capital Program (Waterworks 2011). The financial plan includes a combination of user fees, connection charges, capital expansions fees, revenue bonds and state revolving fund bonds, and grants. Directed the development of rates, the development and implementation of connection fees, and the development and implementation of miscellaneous charges and capital expansion fees.

Project Manager

Bond Financial Feasibility - City of Ft. Lauderdale Water and Sewer Department

Directed the financial component of the City of Fort Lauderdale Water and Sewer Department's Bond Feasibility Report in support of the issuance of approximately \$90 million Revenue Bonds.

Project Manager

Annual Report - Broward County Water and Sewer Department

Direct the preparation of Broward County Water and Wastewater Engineer's Annual Report in compliance with Bond Resolutions.

ACADEMIC BACKGROUND

B.S. Accounting - Florida State University
– 1976

PROFESSIONAL CERTIFICATION & AFFILIATIONS

- American Waterworks Association
- Biscayne Bay Shoreline Development Review Committee/Miami-Dade County
- Citizens for a Better South Florida - Board of Directors, Treasurer, Executive Committee
- Florida Waterworks Association - Board of Directors, Treasurer, Secretary
- National Association of Water Companies
- Traffic Advisory Board (Coral Gables), Chairperson
- Disability Affairs Board (City of Coral Gables) – Board Member, Vice-Chairperson, Chairperson
- Miami-Dade County Shoreline Review Committee – Advisory Board

DEBORAH D. SWAIN

Vice President

Project Manager

Efficiency and Competitiveness Analysis - Miami-Dade Water and Sewer Department

Perform financial analysis to aid in determination of competitiveness of Miami-Dade Water & Sewer Department. Coordinate and conduct thirty employee workshops to solicit input from employees to become more efficient. Coordinate and conduct process improvement team workshops to develop implementation strategies.

Project Manager

Wastewater Reuse Feasibility Study and Alternative Water Supply Plan - Miami-Dade County Water and Sewer Department

Directing the financial component of the Reuse Feasibility and Alternative Water Supply Study, including an analysis of the impact on user rates and impact and/or mitigation fees. Directing the public and regulator input workshops by providing facilitation and coordination. Evaluating potential major users by reviewing current large potable water customers, obtaining input from Miami-Dade Parks and Recreation, and other potential user groups.

Project Manager / Lead Consultant

Efficiency and Competition - Miami-Dade County Water and Sewer Department

Coordinate and conduct nearly fifty employee and manager workshops to solicit input from employees to become more efficient. Direct, coordinate and conduct process improvement team workshops to develop implementation strategies. Perform financial analysis to aid in determination of competitiveness of Miami-Dade Water & Sewer Department.

Project Manager

Various Rate Studies - Miami-Dade County Water and Sewer Department

Directed the study on the impact of rate structure on poverty level customers in 1993. Directed the rate design and bulk user fee analysis for the Rate Study in 1997. Directed the Miscellaneous User Fees Study in 1997. Participated in the Analysis of Future Rates in 2000.

Project Manager / Financial Expert

Utility Alternative Revenue Resources - Various Utilities

Developed other revenue sources for water and wastewater utilities, in particular wastewater disposal products, including effluent and sludge, and performed rate studies to support sales fees. Provided expert testimony in public hearings when required. Participated in negotiations with end users on pertinent issues including shared benefits, required utilization, and liability.

Project Manager

Stormwater Utility Systems - City of Coral Gables, Miami-Dade County, and City of Miami Beach

Performed analysis of costs for recovery through user fees for several large systems, including Miami-Dade County, City of Coral Gables, and the City of Miami Beach. Developed a preliminary needs analysis for several municipalities in Miami-Dade County by analyzing available information, including the Cities of Hialeah, North Miami, Sweetwater, South Miami, and Medley. Evaluated alternative billing mechanisms, including utility user fees and special assessments, recommend appropriate mechanism. Assisted in establishment of billing, administrative, and customer service department for new stormwater management system in Miami-Dade County.

Senior Manager

Deltona Utilities, Inc., United Florida Utilities Corporation, Seagull Utility Company, Southern Status Utilities, Inc.

Directly supervised entire accounting, rate regulation, budgeting, cash management, funding, and management information systems for water, wastewater, and LP gas utilities throughout the state of Florida. Supervise the development of numerous computer systems, including accounting and financial systems, utility billing, scheduling, and databases. Acted as Project Manager on a \$1.4 million utility billing implementation project. Responsibilities included selection of consultants, assignment of project team, supervision of implementation team and training team. Directly involved in identifying system modifications, system testing, procedures development, and controls development.

Provide management consulting services to private and public utility companies. Directly supervised entire accounting, rate regulation, budgeting, cash management, and management information systems for water, wastewater, and LP gas utilities throughout the state of Florida.

GABRIEL MILIAN, P.E.

Project Engineer - Civil and Environmental Engineering

EXPERTISE

Mr. Milian has over 6 years of experience in Modeling of Hydraulic Systems, Acquisition of Environmental Resource Permits and design of water distribution and sewer collection systems. Below is a summary of recent major projects he has worked on:

EXPERIENCE

**Project Engineer
Wastewater Reuse Feasibility Study Update
Miami-Dade Water and Sewer Department (MDWASD) – Miami-Dade County, Florida**

Mr. Milian is responsible for calculating the costs for the different alternatives that will be presented in the updated wastewater reuse feasibility study for MDWASD. He is also in charge of identifying the different environmental permits that may be required for this project.

**Project Engineer
Ryder Development
Shoma Homes Development, Inc. - Miami-Dade County, Florida**

Prepared a Water-Cad model to determine if the proposed water distribution system for the 40-acre mixed-use land development project will be able to meet the domestic and fire flow requirements. Also, developed a Sewer-Cad model to determine the requirements of a "Donation" sanitary sewer pumping station and associated gravity collection system. The results of this modeling study were coordinated with Miami-Dade Water and Sewer Department for the purpose of planning this "Donation" sanitary sewer pumping station.

**Project Engineer
Homestead Air Force Base Phase II Water and Sewer Improvements
Miami-Dade Water and Sewer Department – Miami-Dade County, Florida.**

Assisted during the preparation of construction documents, joint restraint analysis, specifications and permitting of **6,000 LF** of 24-inch water mains, **3,500 LF** of 16-inch sewage force main connecting to an existing 48-inch public force main in conformance with MDWASD standards.

**Project Engineer
Opa-Locka Airport – Water Master Plan
Miami-Dade Aviation Department - Miami-Dade County, Florida**

Responsible for the development of the Water-Cad model used to analyze the Airport's water distribution system. Collected as-built data as well as field data to assemble the model and used the model to evaluate the performance of the existing system considering the present water demands. Also, utilized the model to recommend improvements to the existing system so that the future built-out condition and water demands of the airport can be met. The results and recommendations were compiled and presented to the Aviation Department is a document entitled "Opa-Locka Airport – Water Master Plan."

**Project Engineer
Opa-Locka Airport – Sewer Master Plan
Miami-Dade Aviation Department - Miami-Dade County, Florida**

Responsible for the development of the Sewer-Cad model used to analyze the Airport's sewer collection and transmission system. Collected as-built data as well as field data to assemble the model and used the model to evaluate the performance of the existing system considering the present sewage loading. Also, utilized the model to recommend improvements to the existing system so that the future built-out condition and sewer demands of the airport can be met. The results and recommendations were compiled and presented to the Aviation Department is a document entitled "Opa-Locka Airport – Sewer Master Plan."

ACADEMIC BACKGROUND

Master of Environmental Engineering – University of Texas at Austin – 2002
Case Study on the Remediation of Arsenic in Soil and Subsequent Groundwater – Master's Departmental Report, 2002

Professional Aid – University of Texas at Austin

Bachelor of Civil Engineering - University of Miami - 2001

Bachelor of Environmental Engineering - University of Miami - 2001

MODFLOW, MOCFLOW AND MOC 3D pertaining to the fate and transport of pollutants from point sources

PROFESSIONAL CERTIFICATION & AFFILIATIONS

- Florida Professional Engineer License No. 65927
- American Society of Civil Engineers
- XP SWMM Certified

GABRIEL MILIAN, P.E.

Project Engineer - Civil and Environmental Engineering

Project Engineer

C-100 Stormwater Master Plan

Miami-Dade County Department of Environmental Resource Management - Miami-Dade County, Florida

Responsible for developing the SWMM model to analyze the conveyance capacity of the C-100 Basin in Miami-Dade County. Developed a GIS Data Base with associated coverages identifying the major conveyance elements in the Basin. The GIS Data Base was utilized to identify the critical problem locations in the basin. This ARC-View Data Base was interfaced with the SWMM model to facilitate the manipulation of the model, data input and identification of key problem areas.

Project Engineer

C-7 Stormwater Master Plan

Miami-Dade County Department of Environmental Resource Management - Miami-Dade County, Florida

Responsible for developing the SWMM model to analyze the conveyance capacity of the C-7 Basin in Miami-Dade County. Developed a GIS Data Base with associated coverages identifying the major conveyance elements in the Basin. The GIS Data Base was utilized to identify the critical problem locations in the basin. This ARC-View Data Base was interfaced with the SWMM model to facilitate the manipulation of the model, data input and identification of key problem areas.

Project Engineer

C-2 Stormwater Master Plan

Miami-Dade County Department of Environmental Resource Management - Miami-Dade County, Florida

Responsible for developing the SWMM model to analyze the conveyance capacity of the C-12 Basin in Miami-Dade County. Developed a GIS Data Base with associated coverages identifying the major conveyance elements in the Basin. The GIS Data Base was utilized to identify the critical problem locations in the basin. This ARC-View Data Base was interfaced with the SWMM model to facilitate the manipulation of the model, data input and identification of key problem areas.

Project Engineer

Design of the Phase I Deering Glade Rehydration Improvements

Miami-Dade County Parks and Recreation Department - Miami-Dade County, Florida

Prepared the site plan and selected the site for the proposed adjustable weir structure associated with the project. Designed this broad crested concrete weir to partially rehydrate the existing glade and reduce salt water intrusion. As part of the design, he coordinated the surveying, geotechnical and environmental delineation efforts required for permitting. Currently preparing the ERP permit and the DERM Class I permit.

ANGEL CORTADA, P.E.
Project Engineer

EXPERTISE

Mr. Cortada has 33 years of experience in general civil engineering, including design of storm drainage systems, water supply systems, soil & water conservation systems, design of irrigation and drainage systems, feasibility hydraulic studies for agricultural development and computer modeling. His expertise include design and analysis of drainage/flood control systems, water supply systems, soil and water conservation systems, computer modeling for engineering superficial hydrology to analysis and design water resource systems, design of irrigation and drainage systems, feasibility hydraulic, basic and detail engineering for agricultural development.

EXPERIENCE

Project Engineer

**Scott-Carver Homes; Hope VI Redevelopment
Miami-Dade H.U.D. – FL**

Project Engineer for the civil engineering work related to the development of the Scott-Carver Homes; Hope VI Redevelopment Project, a proposed phased residential development located in Miami-Dade County, Florida. Work on this project included environmental site assessment, civil design & master planning, permitting services and construction administration services.

Project Engineer

**GSA Facility Design/Build at NW 46 Street & NW 35 Avenue
Miami-Dade County GSA - FL**

Project Engineer responsible for designing all plans and preparing all permitting applications for the water distribution, sewage collection and storm water management systems required for the new 100,000 square foot GSA facility.

Project Engineer

**St. Katherine Drexel Catholic Church – Civil Engineering Services
The Archdiocese of Miami – FL**

Project Engineer in charge of the day to day work related to the civil engineering services provided to The Archdiocese of Miami for the Design of St. Katherine Drexel Catholic Church, located in Weston, Florida. Services include Civil engineering design, permitting and construction administration services.

Project Engineer

**Tree Island Park
Miami-Dade County Park and Recreation Department – FL**

Project engineer for the civil and environmental engineering services that are being provided to the Miami-Dade County Parks and Recreation Department. This Department requires assistance to prepare and process the environmental permits required to develop the Tree Island Park located south of SW 10th Street between SW 149th Avenue and SW 147th Avenue.

Project Engineer

**Hialeah Water Treatment Plant Emergency Overflow
Miami-Dade Water and Sewer Department (MDWASD) - Miami-Dade, FL.**

Project Engineer for the professional engineering services provided to MDWASD on the Hialeah Water Treatment Plant Emergency Overflow project. Work included the design of construction drawings and specifications for the proposed improvements, to include modifications to the existing finished water reservoir overflow structure, installation of an underground positive discharge outfall from the overflow structure, south along West 2 Avenue, crossing Okeechobee Road and ending at the northerly bank of the C-6 Canal. In addition, assisted MDWASD in obtaining approvals for the proposed improvements from FDOT, FDEP, SFWMD and City of Hialeah.

ACADEMIC BACKGROUND

Bachelor of Civil Engineering - University of Havana 1993 - (Major in Hydraulic Engineering)

Bachelor of Agricultural Engineering - University of Havana 1980 - (Major in Irrigation & Drainage Engineering)

Post Graduate Course - Economic of Water Resources Planning – 1990

SKILLS

- AutoCAD System
- ICPR Modeling
- Water CAD
- Programming Language Fortran

PROFESSIONAL CERTIFICATION & AFFILIATIONS

Florida Board of Professional Engineers - 2000 (PE # 55364)

ANGEL CORTADA, P.E.

Project Engineer

Project Engineer

Pump Station Nos. 862, 863

Miami-Dade Water and Sewer Department - Miami-Dade County, FL.

Participated in the design of sanitary sewer pump stations No. 862 and 863 upgrade projects for the Miami-Dade Water and Sewer Department (MDWASD). These projects include the retrofit of the upgraded pump, station reconfiguration from wet-dry to submersible systems, yard piping modifications, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost.

Project Engineer

GWUDI Upgrades at Hialeah-Preston Water Treatment Plants-NWWF Treatment Facilities

Miami-Dade Water and Sewer Department – FL

Project engineer for professional engineering and permitting services provided for the design of water treatment facilities at the Northwest Wellfield to enhance treatment from the existing Hialeah-Preston WTPs. Mr. Cortada was responsible for the Stormwater Management design portion of the project.

Project Engineer

Busway Extension – Segment 2

Miami-Dade County Transit Agency - Miami-Dade County, FL.

Mr. Cortada was the project engineer for the design of a 6.5-mile Busway Extension from SW 264th Street to SW 344th Street in Florida City and an additional 1.1-mile extension of the bicycle path from SW 344th Street to US-1 (South Dixie Highway). Responsibilities included the drainage system design and running ICPR modeling software. In addition he was responsible for the preparation of traffic signing and marking plans.

Project Engineer

Drainage Study for NE 71st Street

City of Miami CIP Department - Miami-Dade County, FL.

Participated in the Preliminary Drainage Study for the NE 71st Street Storm Sewers. The site is located within the limits of the City of Miami and generally bounded by Biscayne Boulevard (West) and Biscayne Bay (East). The study identified the existing drainage systems within the project boundaries, apparent system deficiencies contributing to the current flooding at the eastern portions of the watershed and analyzed different improvement methods for stormwater disposal to alleviate ponding within the site. Five Drainage improvements Alternatives (Dry retention, French drains, drainage wells, positive outfalls to Biscayne Bay) were considered and modeled using ICPR and recommendations were made to the City based on site budget, regulatory constraints and Level of Service provided by each alternative analyzed. Mr. Cortada was in charge of the preparation of feasibility cost analysis and construction cost estimated for the selected alternative.

Project Engineer

FEMA-DORM Drainage Improvements

Miami-Dade County Department of Environmental Resources Management – DERM – Miami, FL.

Project Engineer for the construction of drainage and roadway pavement improvements for twenty two (22) projects in Miami-Dade County. The work consisted of evaluating each project site for drainage deficiencies and/or pavement restoration caused by flooding experienced during Hurricane Irene in October of 1999 and the No-Name Storm in October 2000. Work involved the coordination of field inspections and surveying services, preparation of construction plans, Maintenance-of-Traffic Plans, special provisions, preparation of design reports, project scheduling and management of budget control and invoice preparation, per FEMA-DORM requirements.

Project Engineer

Opa-Locka Airport - Water and Sewer Master Plan

Miami-Dade Aviation Department - Miami, FL.

Project Engineer for the Opa-Locka Airport Water and Sanitary Sewer System Evaluation and Master Plan. Participated in the evaluation and hydraulic modeling of the existing water distribution, sewer force mains and pump station network within the airport and recommended repairs and improvements based on projected future expansion. Assisted in the water and sewer master plans, design criteria and conceptual layout of the future gravity, force main and pumping systems for the airport.

JOE PALACIOS
Senior Designer / Construction Manager

EXPERTISE

Mr. Palacios has over 25 years of experience with design of water and wastewater systems, construction inspections and contract administration. Below is a summary of recent major projects he has worked on:

EXPERIENCE

Senior Designer
Pump Station Nos. 862, 863, 1003, 1009, 372, 177, 1233
Miami-Dade Water and Sewer Department – Miami-Dade County, Florida.

Design of various sanitary sewer pump station upgrade projects for the Miami-Dade Water and Sewer Department (MDWASD). These projects include the retrofit of the upgraded pump, station reconfiguration from wet-dry to submersible systems, yard piping modifications, development of the contract document's technical specifications, preparation of engineer's opinion of probable construction cost, post-design and construction phase services.

Project Engineer
Coral Gables C-3 Canal
City of Coral Gables – Miami-Dade, FL

Project engineer for the C-3 Canal (Coral Gables Waterway) Restoration project. In charge or coordinating the performance of soil sampling and testing. Responsible for preparing the design plans. Assisted the City of Coral Gables in obtaining approvals from regulatory agencies and in the permitting application process. Organized and assisted the various subaqueous inspections performed. Also prepared reports.

Project Engineer
Pine Island Sanitary Sewer Improvements
National Park Services - Miami-Dade County, Florida.

Design and specifications for a new low-pressure sewage transmission and pumping system to include 4 master pump stations, 17 lift stations and **9,000 LF** of low-pressure sewage force mains to serve the Everglades National Park Headquarters and Pine Island Housing facilities in Southwest Miami-Dade County.

Project Engineer
Ives Estate, Lake Lucerne, Oak Grove Ojus and Rolling Oaks Parks Sewer Improvements
Miami-Dade County Park and Recreational Department – Miami-Dade County, Florida.

Design of various pump station/force main and sanitary sewer collection system improvements to provide sewer service to existing park recreational facilities for the Miami-Dade Parks & Recreation Department (MDPRD), inclusive of the abandonment of existing septic tanks, specifications and permitting.

Project Engineer
Homestead Air Force Base Phase II Water and Sewer Improvements
Miami-Dade Water and Sewer Department – Miami-Dade County, Florida.

Worked on the preparation of construction documents, joint restraint analysis, specifications and permitting of **6,000 LF** of 24-inch water mains, **3,500 LF** of 16-inch sewage force main connecting to an existing 48-inch public force main in conformance with MDWASD standards.

Project Engineer
Water and Wastewater Annual Report
Broward County Utilities – Broward County, Florida.

Assisted with the preparation of the water and wastewater systems annual report for the Broward County Office of Environmental Services (BCOES). Performed the physical inspections of 7 master sewage pump stations, 25 lift stations, water and wastewater treatment facilities and recommended improvements.

ACADEMIC BACKGROUND

Associate of Arts Degree, Miami Dade College – 1975
Completed courses in Hydraulics and AutoCAD Design.
Completed all course requirements towards Certificate of Architectural Drafting

PROFESSIONAL CERTIFICATION & AFFILIATIONS

- Association of Engineering Technicians

JOE PALACIOS
Senior Designer / Construction Manager

Project Engineer

Infiltration/Exfiltration/Inflow Improvements

Miami-Dade Water and Sewer Department – Miami-Dade County, Florida.

Construction administration for the Miami-Dade Water and Sewer Department's (MDWASD) Infiltration/Inflow Sewer Improvements related to the Environmental Protection Agency and Florida Department of Environmental Protection Consent Decree and Settlement Agreements. These projects included the installation of cured-in-place and fold-and-form sewer liners, sectional liners, point repairs, and the inspection/cleaning/televising of small and large diameter gravity sewer lines.

Project Engineer

Raw Water Line and Pumping Facilities

Southern States Utilities, Inc. – Collier County, Florida.

Assisted in the development of raw water augmentation program for Marco Island Utilities. Services included the design of two 250 hp raw water pumping facilities with related emergency generation system, and a telemetry system to operate in conjunction with all existing raw water pumps. In addition, designed more than five miles of 18" raw water mains to convey the withdrawn water to a point of interconnection with an existing 24" line located east of Henderson Creek in Collier County.

Project Engineer

Neighborhood 6-Oceanfront: Capital Improvements Program

City of Miami Beach – Miami Beach, FL

Project Engineer responsible for the design, permitting and construction phases of water distribution and street lighting system improvements provided to the City of Miami Beach for the Neighborhood 6-Oceanfront capital improvements program.

State of Florida

Board of Professional Engineers

Milian, Swain & Associates, Inc.



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

Certificate of Authorization

EXPIRATION: 2/28/2013

AUDIT NO: 228201301590

CA. LIC. NO:

5460

MIAMI-DADE COUNTY
TAX COLLECTOR
140 W. FLAGLER ST.
1st FLOOR
MIAMI, FL 33130

2010 LOCAL BUSINESS TAX RECEIPT 2011
MIAMI-DADE COUNTY - STATE OF FLORIDA
EXPIRES SEPT. 30, 2011
MUST BE DISPLAYED AT PLACE OF BUSINESS
PURSUANT TO COUNTY CODE CHAPTER 8A - ART. 9 & 10

FIRST-CLASS
U.S. POSTAGE
PAID
MIAMI, FL
PERMIT NO. 231

THIS IS NOT A BILL - DO NOT PAY

252675-5
BUSINESS NAME / LOCATION
MILIAN SWAIN & ASSOCIATES INC
2025 SW 32 AVE
33145 MIAMI

RENEWAL
RECEIPT NO. 265155-3

110

OWNER
MILIAN SWAIN & ASSOCIATES INC
Sec. Type of Business
212 CONSULTANT

THIS IS ONLY A LOCAL
BUSINESS TAX RECEIPT. IT
DOES NOT PERMIT THE
HOLDER TO VIOLATE ANY
EXISTING REGULATORY OR
ZONING LAWS OF THE
COUNTY OR CITIES. NOR
DOES IT EXEMPT THE
HOLDER FROM ANY OTHER
PERMIT OR LICENSE
REQUIRED BY LAW. THIS IS
NOT A CERTIFICATION OF
THE HOLDER'S QUALIFICA-
TIONS.

DO NOT FORWARD

MILIAN SWAIN & ASSOCIATES INC
2025 SW 32 AVE 110
MIAMI FL 33145

PAYMENT RECEIVED
MIAMI-DADE COUNTY TAX
COLLECTOR:

07/21/2010
60020000088
000060.00

1062

SEE OTHER SIDE

State of Florida

Department of State

I certify from the records of this office that MILIAN, SWAIN & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on January 11, 1989, effective January 9, 1989.

The document number of this corporation is K58420.

I further certify that said corporation has paid all fees due this office through December 31, 2011, that its most recent annual report was filed on January 5, 2011, and its status is active.

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

Given under my hand and the Great Seal of Florida, at Tallahassee, the Capital, this the Sixth day of January, 2011



Jennifer Kennedy
Secretary of State

Authentication ID: 700189677067-010611-K58420

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.
<https://efile.sunbiz.org/certauthver.html>



State of Florida
*Minority, Women &
Service-Disabled Veteran*
Business Certification

Milian, Swain & Associates, Inc.

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

February 24, 2010 to February 24, 2012

Torey Alston, Executive Director

*Florida Department of Management Services
Office of Supplier Diversity*

Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399-0950 • 850.487.0915 • www.osd.dms.state.fl.us

State of Florida

Board of Professional Engineers

Attests that

Arsenio Milian, P.E.



IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. LIC. NO:
AUDIT NO: 228201315881 13134

State of Florida

Board of Professional Engineers

Attests that

Gabriel A. Milian, P.E.



IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. LIC. NO:
AUDIT NO: 228201325333 65927

State of Florida

Board of Professional Engineers

Attests that

Angel Cortada, P.E.



IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. LIC. NO:
AUDIT NO: 228201329199 55364

ARCHITECT – ENGINEER QUALIFICATIONS

PART 1 – CONTRACT – SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (*City of State*)

Professional General Engineering and Architectural Services – City of Doral, FL

2. PUBLIC NOTICE DATE

3. SOLICITATION OR PROJECT NUMBER

RFQ No. 2011.05.13

B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Arsenio Milian, P.E., President

5. NAME OF FIRM

Milian, Swain & Associates, Inc.

6. TELEPHONE NUMBER

(305) 441-0123

7. FAX NUMBER

(305) 441-0688

8. E-MAIL ADDRESS

amilian@milianswain.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(check)			9. FIRM NAME	10 ADDRESS	11. ROLE N THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.	x			Milian, Swain & Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	2025 S.W. 32nd Avenue Suite 110 Miami, FL 33145	Civil / Environmental Engineering Principal in Charge
b.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPSOED TEAM

(Attached) Find in Section E-1

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for Each key person)

12. NAME Arsenio Milian, P.E.	13. ROLE IN THIS CONTRACT Civil Engineering -Principal in Charge	14. YEARS EXPERIENCE	
		a. TOTAL 38	b. WITH CURRENT FIRMS 22

15. FIRMS NAME AND LOCATION *(City and State)*

Milian, Swain & Associates, Inc., Miami, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*

University of Florida, Bachelors of Civil Engineering, 1967
University of Florida, Masters of Engineering, 1968

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

Florida Professional Engineer No. 13134

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, awards etc.)*

- Florida Professional Engineer No. 13134
- American Waterworks Association
- American Society of Civil Engineers
- President Citizens for a Better South Dade County's Environmental Endangered Land Acquisition Committee
- Environmental Education Foundation of Florida – Board of Directors
- Florida Economic Growth & International Development

- Florida Forever Advisory Council
- Florida Waterworks Association
- Miami River Storm Water Sub-Committee – Chair
- National Audubon Society – Board of Directors
- The Nature Conservancy, Florida Chapter – Board of Trustees
- 1000 Friends of Florida
- The Wilderness Society – Governing Council
- Water Pollution Control Federation

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Our Lady of Guadalupe Phase I Improvements Archdiocese of Miami – City of Doral, Florida	On-going	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Principal in Charge for the civil engineering design, permitting & construction services for Phase-I Improvements for Our Lady of Guadalupe project. Services include data collection, onsite paving, grading and drainage design, preparation of onsite water distribution system plans, sanitary sewer collection and transmission system plans, permitting services, construction phase services and utility negotiation. Project Cost: \$184,512		
b.	Ryder Site Development (Park Square at Doral) SHOMA Homes Development – City of Doral, Florida	2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Principal in Charge for the design & permitting civil engineering services for the Ryder Site Development located in the City of Doral on NW 82 Ave between NW 36 St and NW 33 St. Services included Onsite Paving, Grading and Drainage, Onsite Water Distribution System, Onsite Sanitary Sewer Collection and Transmission System, as well as permitting services and utility negotiation meetings. Project Cost: \$573,518		
c.	GSA Facility Design/Build at NW 46 Street & NW 35 Avenue Miami- Dade County GSA - Florida	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Responsible for overseeing all work related to the design, permitting and construction of the water distribution, sewage collection and storm water management systems required for the new 100,000 square foot GSA facility. Project Cost: \$62,500		
d.	Margaret Pace Park Shoreline Stabilization City of Miami - Florida	2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms In charge of the quality control of the preparation of construction documents for stabilizing approximately 1,300 linear feet of the eastern shoreline of Margaret Pace Park located at 1775 N. Bayshore Drive in the City of Miami. In addition, prepared and processed a Miami-Dade County Department of Environmental Resources Management (DERM) Class-I Permit application as well as a Florida Department of Environmental Protection (FDEP) Joint Environmental Resource Permit (ERP) application. Cost: \$40,525		
e.	West Kendall Park Lake Management Plan Miami-Dade County Park and Recreational Dept - Miami, Florida	2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms In charge of the quality control of the preparation of the lake management plan for a 20 acre lake that will abut Kendall Tamiami Airport. The plan address concerns associated with the potential of bird strikes and the use of airport property by foraging mammals attracted to the lake. Currently permitting the plan through the FAA. Project Cost: \$37,135		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for Each key person)

12. NAME Julio Menache	13. ROLE IN THIS CONTRACT Civil Engineering – Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 22	b. WITH CURRENT FIRMS 13

15. FIRMS NAME AND LOCATION *(City and State)*

Milian, Swain & Associates, Inc., Miami, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*

University of Miami, Bachelors of Civil Engineering, 1987

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

Florida E.I. No. 1088ET188

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, awards etc.)*

- **Florida E.I. No. 1088ET188**
- **American Society of Civil Engineers**
- **National Society of Professional Engineers**
- **Florida Engineering Society**

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Our Lady of Mercy Cemetery-Civil & Environmental Engineering Archdiocese of Miami – City of Doral, FL Project Manager for the professional engineering services at Our Lady of Mercy Cemetery (OLM), located in the City of Doral, FL. Services included supporting the current OLM Master Plan effort underway from a civil infrastructure standpoint, to include water distribution, sewage collection, paving, grading and drainage, civil and environmental permitting assistance and participation during the construction phase of short and long-term development at OLM. Project Cost: \$80,500	On-going	N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE E.B. Thomas Elementary, Water/Sewer, PGD Miami-Dade County Public Schools - City of Doral, FL Project Manager in charge of design, permitting and construction phase services for paving, grading, drainage, water and sewer improvements to E.B. Thomas Elementary located in the City of Doral, including new parking areas and off-site water and sewer main extensions. Project Cost: \$52,000	2007	N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE SOUTHCAM Headquarters Due Diligence City of Doral, Florida Managed the preparation of a Due Diligence Report for a 40 acre parcel located at the SOUTHCAM Headquarters in NW 33rd Street and NW 94th Avenue, City of Doral, Fl. Services included assistance to the Client by researching, obtaining and compiling project data/information, attending local meetings/conferences with County, municipalities and applicable regulatory agencies required to complete applicable report tasks. Prepared the civil infrastructure design criteria report, conducted preliminary stormwater management calculations to determine site retention areas required in compliance with SOUTHCAM and regulatory agencies criteria. Project Cost: \$39,423	2006	N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Our Lady of Guadalupe Phase I Improvements Archdiocese of Miami – City of Doral, Florida Project Manager for the civil engineering design, permitting & construction services for Phase-1 Improvements for Our Lady of Guadalupe project. Services include data collection, onsite paving, grading and drainage design, preparation of onsite water distribution system plans, sanitary sewer collection and transmission system plans, permitting services, construction phase services and utility negotiation. Project Cost: \$184,512	On-going	N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE GSA Facility Design/Build at NW 46 Street & NW 35 Avenue Miami- Dade County GSA - Florida Project Manager in charge of design, permitting and construction of the water distribution, sewage collection and storm water management systems required for the new 100,000 square foot GSA facility. Project Cost: \$62,500	2010	N/A

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for Each key person)

12. NAME Gabriel Milian, P.E.	13. ROLE IN THIS CONTRACT Environmental Engineering Project Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRMS 7
15. FIRMS NAME AND LOCATION <i>(City and State)</i> Milian, Swain & Associates, Inc., Miami, Florida			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Master of Environmental Engineering – University of Texas at Austin – 2002 Bachelor of Civil Engineering - University of Miami - 2001 Bachelor of Environmental Engineering - University of Miami – 2001 University of Miami, Bachelors of Civil Engineering, 1987		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Florida Professional Engineer No. 65927	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, awards etc.)</i> <ul style="list-style-type: none"> • American Society of Civil Engineers • XP SWMM Certified 			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. Margaret Pace Park City of Miami Transportation & Capital Improvements Dept., Fl	2007	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Responsible for the preparation of construction documents for stabilizing approximately 1,300 linear feet of the eastern shoreline of Margaret Pace Park located at 1775 N. Bayshore Drive in the City of Miami. In addition, prepared and processed a Miami-Dade County Department of Environmental Resources Management (DERM) Class-I Permit application as well as a Florida Department of Environmental Protection (FDEP) Joint Environmental Resource Permit (ERP) application. Project Cost: \$57,008		
b. Ryder Site Development (Park Square at Doral) SHOMA Homes Development – City of Doral, Florida	2009	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Prepared a Water-Cad model to determine if the proposed water distribution system for the 40-acre mixed-use land development project will be able to meet the domestic and fire flow requirements. Also, developed a Sewer-Cad model to determine the requirements of a “Donation” sanitary sewer pumping station and associated gravity collection system. The results of this modeling study were coordinated with Miami-Dade Water and Sewer Department for the purpose of planning this “Donation” sanitary sewer pumping station. Project Cost: \$573,518		
c. Miami River Greenways Miami-Dade County Public Works, Florida	On-going	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Project Engineer for the civil engineering services provided to the Miami River Greenways project. MSA was responsible for the permitting process of this project which entailed the connection of six (6) sites with walkways along the Miami River. Project Cost: \$55,062		
d. C-100 Stormwater Master Plan Miami-Dade County DERM - Miami, Florida	2006	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Responsible for developing the SWMM model to analyze the conveyance capacity of the C-100 Basin in Miami-Dade County. Developed a GIS Data Base with associated coverages identifying the major conveyance elements in the Basin. The GIS Data Base was utilized to identify the critical problem locations in the basin. This ARC-View Data Base was interfaced with the SWMM model to facilitate the manipulation of the model, data input and identification of key problem areas. Project Cost: \$119,194		
e. Miami-Dade County Park and Recreational Dept – Tree Island Park Project - Miami, Florida	On-going	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Project engineer for the civil and environmental engineering services that are being provided to the Miami-Dade County Parks and Recreation Department. This Department requires assistance to prepare and process the environmental permits required to develop the Tree Island Park located south of SW 10th Street between SW 149th Avenue and SW 147th Avenue. Project Cost: \$133,516		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for Each key person)

12. NAME Deborah D. Swain	13. ROLE IN THIS CONTRACT Contract Management	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRMS 22
15. FIRMS NAME AND LOCATION <i>(City and State)</i> Milian, Swain & Associates, Inc., Miami, Florida			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Florida State University, Bachelors of Accounting, 1976		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, awards etc.)</i>			
<ul style="list-style-type: none"> • Miami-Dade A&E Society • American Waterworks Association • Citizens for a Better South Florida - Board of Directors, Treasurer, Executive Committee • Florida Waterworks Association - Board of Directors, Treasurer, Secretary • Traffic Advisory Board (Coral Gables), Chairperson • Miami-Dade County Shoreline Review Committee – Advisory Board 			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Alternative Water Supply Master Plan Miami-Dade Water and Sewer Department, Fl	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Directing the firm’s work efforts on several tasks as a subconsultant on the Water Master Plan Team. Primary responsibilities include overseeing development of the monitoring plan for the Coastal Wetlands Rehydration Demonstration Project, research and investigation of large scale aquifer recharge opportunities in South Miami-Dade County and in the Bird Drive Basin, served in the lead role in planning and facilitating large scale stakeholder meetings, and managed the work effort required to model the entire water system. Project Cost: \$1,100,000		
(1) TITLE AND LOCATION <i>(City and State)</i> Wastewater Reuse Feasibility Studies Update Miami-Dade Water and Sewer Department, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Responsible for the firm’s work effort provided to Miami-Dade Water and Sewer Department for the completion of a Watewater Reuse Feasibility Study Update. In charge of coordinating and facilitating all required stakeholders meetings. Responsible for attending meetings with regulators in support of work effort. In addition, Ms. Swain performed the economic and present value analysis, components of the reuse feasibility report. Project Cost: \$129,060		
(1) TITLE AND LOCATION <i>(City and State)</i> Financial Feasibility for New RO Water Treatment Plant City of Hialeah, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Responsible for conducting a financial analysis to determine the feasibility of constructing an Upper Floridian Aquifer reverse osmosis water treatment plant. Analyzed various scenarios considering different phasing schedules and several funding sources. Results will be used by the City to determine whether they will proceed with the construction of the facility, and the appropriate phasing. Project Cost: \$26,535		
(1) TITLE AND LOCATION <i>(City and State)</i> Water and Sewer Rate Study City of Hialeah – Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Project Manager for the services provided to the City of Hialeah. MSA performed an analysis and review of the records od the City of Hialeah to determine the level of revenues and resulting rates required to meet its obligations with respect to providing water and sewer services. Services included data collection, analysis or revenue and funding requirements and determination of rates and miscellaneous fees. Project Cost: \$170,000		
(1) TITLE AND LOCATION <i>(City and State)</i> Waterworks 2011 City of Ft. Lauderdale Water and Sewer Department, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Directing the financial component of the City’s Water and Wastewater, ten-year \$700 million Capital Program (Waterworks 2011). The financial plan includes a combination of user fees, connection charges, capital expansions fees, revenue bonds and state revolving fund bonds, and grants. Directed the development of rates, the development and implementation of connection fees, and the development and implementation of miscellaneous charges and capital expansion fees. Project Cost: \$5,769,959		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for Each key person)

12. NAME Angel Cortada, P.E.		13. ROLE IN THIS CONTRACT Civil Engineering – Project Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 25	b. WITH CURRENT FIRMS 4
15. FIRMS NAME AND LOCATION <i>(City and State)</i> Milian, Swain & Associates, Inc., Miami, Florida					
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Civil Engineering – University of Habana, 1993 (Major in Hydraulic Engineering)			17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Florida P.E. No. 55364		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, awards etc.)</i> • Florida P.E. No. 55364					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project Engineer responsible for designing all plans and preparing all permitting applications for the water distribution, sewage collection and storm water management systems required for the new 100,000 square foot GSA facility. Project Cost: \$62,500	2010	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
b. (1) TITLE AND LOCATION <i>(City and State)</i> St. Katherine Drexel Catholic Church – Civil Engineering Services The Archdiocese of Miami – Florida	2011	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project Engineer in charge of the day to day work related to the civil engineering services provided to The Archdiocese of Miami for the Design of St. Katherine Drexel Catholic Church, located in Weston, Florida. Services include Civil engineering design, permitting and construction administration services. Project Cost: \$112,900		
c. (1) TITLE AND LOCATION <i>(City and State)</i> Scott-Carver Homes; Hope VI Redevelopment Miami-Dade H.U.D. - Florida	On-going	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project Engineer for the civil engineering work related to the development of the Scott-Carver Homes; Hope VI Redevelopment Project, a proposed phased residential development located in Miami-Dade County, Florida. Work on this project included environmental site assessment, civil design & master planning, permitting services and construction administration services. Project Cost: 464,284		
d. (1) TITLE AND LOCATION <i>(City and State)</i> Miami-Dade County Park and Recreational Dept – Tree Island Park Project - Miami, Florida	On-going	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project engineer for the civil and environmental engineering services that are being provided to the Miami-Dade County Parks and Recreation Department. This Department requires assistance to prepare and process the environmental permits required to develop the Tree Island Park located south of SW 10th Street between SW 149th Avenue and SW 147th Avenue. Project Cost: \$133,516		
e. (1) TITLE AND LOCATION <i>(City and State)</i> GWUDI Upgrades at Hialeah-Preston Water Treatment Plants – NWWF Treatment Facilities - Miami-Dade Water and Sewer Dept. FL	2011	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project engineer for professional engineering and permitting services provided for the design of water treatment facilities at the Northwest Wellfield to enhance treatment from the existing Hialeah-Preston WTPs. Mr. Cortada was responsible for the Stormwater Management design portion of the project. Project Cost: \$133,516		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for Each key person)

12. NAME Joe Palacios	13. ROLE IN THIS CONTRACT Construction Management	14. YEARS EXPERIENCE	
		a. TOTAL 36	b. WITH CURRENT FIRMS 21
15. FIRMS NAME AND LOCATION <i>(City and State)</i> Milian, Swain & Associates, Inc., Miami, Florida			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> A.A. – Miami Dade Community College, 1975		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, awards etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Responsible for the Construction inspection services for the Ryder Site Development located in the City of Doral on NW 82 Ave between NW 36 St and NW 33 St. Project Cost: \$573,518	2009	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
b. (1) TITLE AND LOCATION <i>(City and State)</i> Neighborhood 6-Oceanfront: Capital Improvements Program City of Miami Beach – Florida	2008	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project Engineer for the design, permitting and construction phases of water distribution and street lighting system improvements provided to the City of Miami Beach for the Neighborhood 6-Oceanfront capital improvements program. Project Cost: \$155,688		
c. (1) TITLE AND LOCATION <i>(City and State)</i> E.B. Thomas Elementary, Water/Sewer, PGD Miami-Dade County Public Schools - City of Doral, FL	2007	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Assisted with Construction Inspection services during the construction of E.B. Thomas Elementary located in the City of Doral. Project Cost: \$52,000		
d. (1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Nos. 177 Miami-Dade Water and Sewer Department – Florida	On-going	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project Engineer responsible for the design, regulatory permitting assistance and limited construction support services for the upgrades to existing Pump Station 177. Also responsible for coordinating and leading a team that will be performing Civil, Electrical, Structural and Geotechnical engineering as well as survey and mapping for the improvements. Project Cost: \$108,260		
e. (1) TITLE AND LOCATION <i>(City and State)</i> Pump Station Nos. 372 Miami-Dade Water and Sewer Department – Florida	2010	N/A
<input checked="" type="checkbox"/> Check if project performed with current firms		
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> and SPECIFIC ROLE Project Engineer for the design of sanitary sewer pump station upgrade for the Miami-Dade Water and Sewer Department (MDWASD). This projects included the retrofit of the upgraded pump, station reconfiguration from wet-dry to submersible systems, yard piping modifications, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost. Project Cost: \$154,998		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

1

21. TITLE AND LOCATION *(City and State)*

Miami-Dade Water and Sewer Pump Station No. 372
Miami-Dade County, FL.

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION *(If applicable)*

2010

N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Miami-Dade Water and Sewer Department

b. POINT OF CONTACT NAME

Reynaldo Abreu

c. POINT OF CONTACT TELEPHONE NUMBER

(786) 552-8161

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Milian, Swain & Associates, Inc. (MSA) was retained to provide design, regulatory permitting assistance and limited construction support services for the upgrade of Pump Station No. 372 and 8 inch & 12 inch sewage forcemain improvements.



The project consisted of furnishing all materials, labor, and equipment necessary to Upgrade Sewage Pump Station No. 372, including, but not limited to, demolition and modification work including demolition of concrete valve vault structure; removing existing wet well pumps, and piping; by-pass pumping; rehabilitation of wet well with a concrete protective coating; furnishing and installing two new 10 HP submersible pumps and accessories; furnishing and installing discharge piping and fittings; connection to the proposed 8-inch force main improvements on site; furnishing and installing access hatches; furnishing and installing valve vault; furnishing and installing the proposed electrical and control system inclusive of the necessary electrical wiring and conduits; replacing any grass, sidewalk, pavement or driveway damaged by construction; electrical work; mechanical work, pump station startup and testing; and other appurtenant and

miscellaneous items and work for a complete, satisfactory and functional installation. Pumping Station 372 is located at 3950 NW 213TH Street, in Section 32, Township 51S, Range 41E, Miami-Dade County, Florida.

The Project also included furnishing all labor, material and equipment including, but not limited to, furnishing and installing 1525 feet of 8-inch ductile iron pipe, valves and fittings for sewage force main; furnishing and installing 1920 feet of 12-inch ductile iron, valves and fittings for sewage force main, constructing air release valve assemblies; making a tapping connection to existing 12-inch force main with 12 x 12-inch tapping sleeve and 12-inch tapping valve; traffic control; temporary and permanent paving repairs together with all other miscellaneous and appurtenant items and work for a complete, functional and satisfactory installation.

Project Cost: \$154,900

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
a	Milian, Swain & Associates, Inc.	Miami, Florida	Civil Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
f	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">2</p>
21. TITLE AND LOCATION (City and State) Old Spanish Village - Design, Permitting & Construction Administration Civil Engineering Services Coral Gables, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> In progress

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Ponce Circle Developers, LLC	b. POINT OF CONTACT NAME Rafael Sanchez	c. POINT OF CONTACT TELEPHONE NUMBER (305) 446-5225
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Milian, Swain & Associates, Inc. (MSA) was retained by Ponce Circle Developers, LLC to provide Permitting & Construction Administration Civil Engineering Services for the development of Old Spanish Village, which will be located in Coral Gables, FL. The following were MSA's scope of services:

PHASE 01: SCHEMATIC DESIGN

- MSA coordinated with the existing utilities providing service in the project area and requested as-built plans of the utility lines in the vicinity of the project.
- MSA coordinated with the client's surveyor and geotechnical testing consultant. MSA prepared an exhibit identifying the critical survey data required for the civil infrastructure design of the project and also prepared a percolation test location map for use by the geotechnical testing consultant.
- MSA attended meetings with the City of Coral Gables Public Works Department, City of Coral Gables Fire Department, Miami Dade Water and Sewer Department, Miami Dade County Public Works Department and Miami Dade County DERM to discuss and obtain requirements related to Paving, Grading and Drainage, Traffic Signage, Water Distribution and Sewage Collection).
- MSA prepared a letter report to Ponce Circle Developers, LLC accompanied by schematic exhibits, summarizing the project requirements related to civil infrastructure including a preliminary Engineer's Statement of Probable Construction Costs.
- Assisted Ponce Circle Developers, LLC in preparation of the Project Development Schedule from a civil infrastructure perspective.
- MSA presented three copies of the letter report to Ponce circle Developers, LLC.

PHASE 02: DESIGN DEVELOPMENT

Based on the approved Schematic Design concept, MSA participated during the Design Development phase of the project as follows:

- Prepared Design Development documents that delineated and described the character of the entire project with respect to the civil infrastructure including responses to pertinent Schematic Design review comments received from Ponce Circle Developers, LLC.
- Prepared outline specifications for the proposed civil components of the project.
- Prepared an updated Engineer's Statement of Probable Construction Costs.
- Assisted Ponce Circle Developers, LLC in updating the Project Development Schedule from a Civil Engineering perspective.
- MSA presented three copies of the Design Development documents to Ponce Circle Developers, LLC.

PHASE 03: CONSTRUCTION DOCUMENTS DEVELOPMENT

From the approved Design Development documents, MSA prepared the final Construction Documents setting forth in detail the requirements for the construction of the civil infrastructure for the project as follows:

- Prepared demolition plans for civil infrastructure.
- Designed Water Distribution and Sewage Collection Systems in conformance with the requirements of the Miami Dade Water and Sewer Department (MDWASD), the City of Coral Gables Fire Department, Miami Dade County DERM Water Supply and Wastewater Sections Miami Dade County Public Works Department (MDPWD) and Miami Dade County Health Department.
- Prepared Paving, Grading and Drainage System plans and pertinent engineering calculations for the proposed development.
- Prepared Technical Specifications for the applicable Civil infrastructure systems following the format developed and recommended by the Construction Specifications Institute (CSI).

- Prepared an updated Engineer's Opinion of Probable Construction Costs for the applicable improvements.
- MSA assisted Ponce Circle Developers, LLC in updating the Project Development Schedule from a Civil infrastructure perspective.
- Assisted Ponce Circle Developers, LLC in obtaining approvals from the regulatory agencies having jurisdiction over the civil, infrastructure systems.

PHASE 04: CONSTRUCTION ADMINISTRATION

MSA assisted Ponce Circle Developers, LLC during the Bidding Phase of the project civil infrastructure as follows:

- Attended Pre-Bid Meetings with prospective bidders.
- Provided responses to Bidders' RFI's and clarifications of civil construction drawings and specifications.
- Prepared addenda related to the construction documents, when needed.
- Assisted in the evaluation of received bids with respect to civil engineering components.

MSA assisted during the Construction Phase of the project as follows:

- Attended pre-construction conference with the selected contractor(s).
- Reviewed civil shop drawings.
- Performed periodic construction observations of the proposed civil infrastructure work on a bi-weekly basis based on a 6-month construction period.
- Performed requisite NPDES compliance inspections and reports per FDEP and DERM requirements.
- Wrote and distributed construction observation reports after each site visit.
- Reviewed Contractor's monthly payment requests and made recommendations to Ponce Circle Developers, LLC as to the requested payment based on MSA's opinion of the actual status and progress of the work.
- Reviewed request for Change Orders submitted by the Contractor and submit to Ponce Circle Developers, LLC, MSA's recommendation(s) on said Change Order request(s).
- Performed a Substantial Completion inspection of the proposed improvements.
- Performed a Final Construction Observation of the proposed civil improvements, to ensure satisfactory completion of all items in the Punch List.
- Reviewed As-built water and sewer drawings prepared by the Contractor.
- Prepared and submitted Water System Completion of Construction Certifications to Miami Dade County Health Department and Miami Dade County DERM.
- Prepared and submitted Sewer System Completion of Construction Certifications to MDWASD and DERM.

Project Cost: \$437,000.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
a	Milian, Swain & Associates, Inc.	Miami, Florida	Civil Engineering & Construction Management
b	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
c	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
d	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
e	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 3
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21. TITLE AND LOCATION (City and State) C-3 Canal (Coral Gables Waterway) Restoration Project Design/Dredging/Permitting Miami-Dade County, FL.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) In progress

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Coral Gables Public Works Department	b. POINT OF CONTACT NAME James Kay, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (305) 460-5069
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Milian, Swain & Associates, Inc. (MSA) provided professional engineering services for the C-3 Canal (Coral Gables Waterway) Restoration project. The services sought to improve conveyance of the C-3 canal downstream of the G-93 Structure located at the intersection with Red Road (S.W. 57th Avenue). The canal was excavated to a design elevation of -10 NGVD. This restoration program provided for the removal of accumulated sediments, which could potentially obstruct the canal's effective stormwater conveyance and result in localized flooding conditions. MSA identified several segments in need of immediate dredging to improve the conveyance of the C-3 canal.

Soil Sampling – MSA coordinated and managed the performance of soil sampling and testing to identify the presence of contaminants of concern for the purpose of determining dredged material reuse alternative and material requiring separation during construction in accordance with Miami-Dade County Department of Environmental Resources Management (DERM) requirements.



Construction Documents – Prepared design plans that depicted the canal's sediment layer to be removed to the original bottom elevation. MSA developed the engineering plans based on the information contained in the topographic survey. The engineering plans were developed to provide a depiction of the canal's sediment layer for purposes of its removal during construction. The engineering plans provided an overall plan view of the respective canal with a tabulation of the resulting sediment removal quantities and provided useful construction information such as water levels from canal centerlines per station, canal width per station, estimated sediment volumes between stations, top of sediment elevation tabulations per station, original canal bottom elevations, top of bank elevations (North/East and South/West) per station, estimated depth of sediment at canal centerlines per station, linear footages between station, and changes in canal longitudinal alignment in terms of degrees. MSA estimated the quantity of sediments to be removed, develop Construction Technical Specifications, and provided an Engineer's Opinion of Probable Cost (EOPC) for the proposed dredging work.

Regulatory Permitting Assistance - MSA assisted the City of Coral Gables in obtaining the approvals from the regulatory agencies. Applied and obtained the special permit from the Florida Fish and Wild Life Conservation Commission (FWCC) to allow access to the surveyors into the canal due to the entry restrictions between November 15, 2003 and April 30, 2004 stemming from the manatee season. Applied for DERM Class I permit. Compiled all backup information regarding the estimated existing sediment volumes within the C-3 Canal. This allowed DERM to estimate the maximum amount of sediment that can be removed once the dredging activities begin. Field Notes of soundings of the C-3 Canal between Structure G-93 and Bird Road (Reference Public Work Survey Book No. 6-85). Volume of sediment was estimated by

calculating the area between the canal bottom, as shown in the soundings, up to the -10 NGVD elevation. EKG tape showing bottom profile of entire C-3 Canal within the City Limits taken in August, 1994. Volume of sediment for the segments downstream of Bird Road was estimated by multiplying the estimated sediment thickness (difference between canal bottom and the -10 NGVD elevation), by the length and average width of the canal. Applied for Environmental Resource Permit (ERP) with the Department of Environmental Protection (DEP). DEP forwarded the ERP application to the U.S. Corps of Engineers (USCOE) for their review and approval.

C-3 Canal (South of Blue Road) - Additional soundings were performed along the rest of the canal's alignment to determine other critical areas with excessive sedimentation.

Survey - MSA retained the services of Weidener Surveying & Mapping, P.A. (WSM) to provide drafting services needed for completion of the survey deliverables for Phase II of the project.

Subaqueous Culvert Inspection - Coordinated and assisted in the subaqueous inspections of the existing culverts in two separate locations (intersection of the secondary canal and Stanford Road and the intersection of the secondary canal with US-1), to ascertain their existing condition and level of sedimentation.

Data Analysis & Report - Analyzed the data obtained and identified the critical areas in need of immediate dredging work to improve conveyance. Prepared and provided a report that includes the canal's longitudinal profile at the centerline and identify the location of critical areas. We prioritized the most critical canal segments that are obstructing the canal's conveyance.

Project Cost: \$167,706.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
a .	Milian, Swain & Associates, Inc.	Miami, Florida	Civil Engineering Services
b .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
f .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4
21. TITLE AND LOCATION (City and State) Miami-Dade Water and Sewer Pump Station No. 177 Miami-Dade County, FL.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami-Dade Water and Sewer Department	b. POINT OF CONTACT NAME Reynaldo Abreu	c. POINT OF CONTACT TELEPHONE NUMBER (786) 552-8161
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Miami-Dade Water and Sewer Department (MDWASD) required professional engineering services to upgrade existing Pump Station 177. Based on the preliminary Engineering Report provided by MDWASD, the existing station is currently operating above the established N.A.P.O.T. threshold and required the replacement of the existing Dry/Wetwell pump station with a new (Triplex) submersible pump station and related appurtenances, including new 200KV emergency generator. Once proposed improvements are implemented, the station will be capable of discharging peak flows from its service area within the NAPOT (10-hour) criteria.

Milian, Swain & Associates, Inc. (MSA) was retained to provide design, regulatory permitting assistance and limited construction support services for this project. MSA is responsible for coordinating and leading a team that will be performing Civil, Electrical, Structural and Geotechnical engineering as well as survey and mapping for the improvements. MSA scope of services included:

- Preparation of full area survey, following MDWASD Survey Procedure for Horizontal and Vertical Control.
- Preparation of design documents for 30%, 70%, 90% and 100% design submittal, including Opinion of Probable Costs.
- Preparation of Front End/Technical Specifications per MDWASD Standards, Contract and Bid Documents.
- Preparation and submission of permit packages to the appropriate regulatory agencies, including the identification of the permit fees required.
- Provide limited construction support services for the project to include shop drawing reviews, construction observations, pump station start-up and certification.

Project Cost: \$108,260.52

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Milian, Swain & Associates, Inc.	(2) FIRM LOCATION (City and State) Miami, Florida	(3) Role Civil Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
e	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
f	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 5
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21. TITLE AND LOCATION <i>(City and State)</i> Miami-Dade Water and Sewer Pump Station 1009 Upgrade Miami-Dade County, FL.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004	CONSTRUCTION <i>(If applicable)</i> 2007

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami-Dade Water and Sewer Department	b. POINT OF CONTACT NAME Manuel Morin	c. POINT OF CONTACT TELEPHONE NUMBER (305) 668-1961
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



Milian, Swain & Associates, Inc. (MSA) was retained by the Miami-Dade Water and Sewer Department (MDWASD) to provide design and regulatory permitting assistance services for the upgrades and improvements to Pump Station No. 1009.

The project consisted of the improvements to the existing submersible-type sewage pump stations to meet the Normal Average Pump Operating Time (NAPOT) 10-hour operating criteria. The proposed upgrades to this station consisted of the following:

- Removal of the existing 20Hp submersible pumps, rails and motors
- Installation of 30 Hp submersible pumps, rails and motors
- Rehabilitation of the existing 8-foot diameter wet well with a protective coating
- Removal of existing wet well top slab and access hatch and installation of a proposed concrete top slab and access hatch
- Connect pump discharge to existing pump station discharge piping
- Removal of existing electrical main disconnect switch, control panel and wiring with upgraded electrical main disconnect, control panel and wiring
- Site regrading and restoration.

MSA prepared the detailed engineering plans, technical specifications, Engineer's Opinion of Probable Construction Cost and regulatory permitting applications for the recommended mechanical and electrical improvements to this facility. Relative to the regulatory approval support services, MSA provided the following assistance:

- Preparation of regulatory permit applications
- Provision of necessary clarifications or plan revisions during the regulatory reviews.

Project Cost: \$16,324.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
.	Milian, Swain & Associates, Inc.	Miami, Florida	Civil Engineering Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
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c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
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d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
.			
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
.			
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 6
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21. TITLE AND LOCATION <i>(City and State)</i> Homestead Regional Airport Water & Sewer Master Plan, Design/Civil & Environmental Engineering Improvements – Phase I - Miami, FL.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2000	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami-Dade County Aviation Department	b. POINT OF CONTACT NAME Pedro Hernandez, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (305) 876-7489
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



Milian, Swain & Associates, Inc. (MSA) performed the analysis, design, and preparation of construction drawings for the Water and Sewer Infrastructure Improvements - Phase I, Homestead Regional Airport:

Water Distribution System

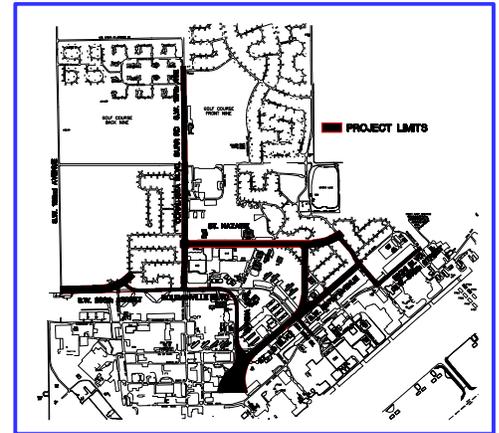
Using the design data and parameters provided by Miami-Dade Aviation Department (MDAD), a hydraulic model was developed to determine and verify the proposed water main sizes depicted in the Phase I Infrastructure Project Book. MSA then prepared construction drawings for approximately 20,000 LF of new water mains connecting to two Miami-Dade Water and Sewer Department (MDWASD) metering stations.

Sewage Collection, Transmission and Pumping Systems

MSA utilized the design data and parameters provided by MDAD to develop a hydraulic model to determine the proposed Phase I sewage force main and gravity system improvements, as depicted in the Phase I Infrastructure Project Book. MSA designed and prepared construction drawings for approximately 3,000 LF of gravity collection system and 7,000 LF of force main. In addition, two new regional pump stations were designed to collect flows from the adjacent private development areas.

MSA was also required to prepare the Storm Water Pollution Prevention Plan (SWPPP) for the proposed improvements in conformance with the SWPP Guidance Manual, and the Construction Specification Institute (CSI) front-end and technical specifications following MDAD and MDWASD criteria.

Finally, MSA assisted MDAD in obtaining approvals from the pertinent regulatory agencies.



Project Cost: \$215,000.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
a.	Milian, Swain & Associates, Inc.	Miami, Florida	Civil & Environmental Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">7</p>
21. TITLE AND LOCATION (City and State) <i>Scott-Carver Homes; Hope VI Redevelopment</i> <i>Miami-Dade County, FL</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES <i>On-going</i>	CONSTRUCTION (If applicable) <i>TBD</i>
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER <i>Tetra-Tech</i>	b. POINT OF CONTACT NAME <i>James R. Warner, PE,</i> <i>LEED, AP</i>	c. POINT OF CONTACT TELEPHONE NUMBER <i>(407) 839-1730</i>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Milian, Swain & Associates, Inc. (MSA) is providing professional engineering services for the development of the Scott-Carver Homes; Hope VI Redevelopment Project for Miami-Dade H.U.D., a proposed phased residential development located in Miami-Dade County, Florida. MSA's scope of services includes:

INITIAL INVESTIGATION – MSA performed Existing Conditions Assessment for the Scott-Carver Redevelopment Area. Services included:

-Review Existing Survey – MSA reviewed the existing conditions of the project to understand the development and design constraints, as well as reviewed Boundary/Topographic surveys to identify critical additional survey data required and identify design constraints for the civil infrastructure design.

-Environmental Site Assessment (ESA) - MSA reviewed the summary of the ESA information provided by client to understand the development and design constraints.

-Initial Consultation with Regulatory Agencies and Utility Providers - MSA attended preliminary meetings with the Miami-Dade County Public Works Department, Miami Dade Fire Department, Miami Dade Water and Sewer Department (MDWASD), Miami Dade County DERM to discuss specific requirements and regulatory constraints related to project development with emphasis on civil infrastructure and wetlands/T&E issues.

-Wetland and Threatened/Endangered Site Review - MSA performed a desktop evaluation to identify Threatened and Endangered (T&E) Species that may have been present within the project area. The MSA environmental scientists conducted a site investigation of the proposed development to determine if jurisdictional wetlands existed within the project boundaries using the currently accepted methodologies by the US Army Corp of Engineers (USACE), the South Florida Water Management District (SFWMD) and Miami-Dade County DERM. Also, as part of this field investigation and using the initial T & E desktop evaluation, MSA identified the presence or absence of any Federal, State or Locally listed species.

ENTITLEMENT/ZONING/PRELIMINARY PLATTING – MSA provided the following services:

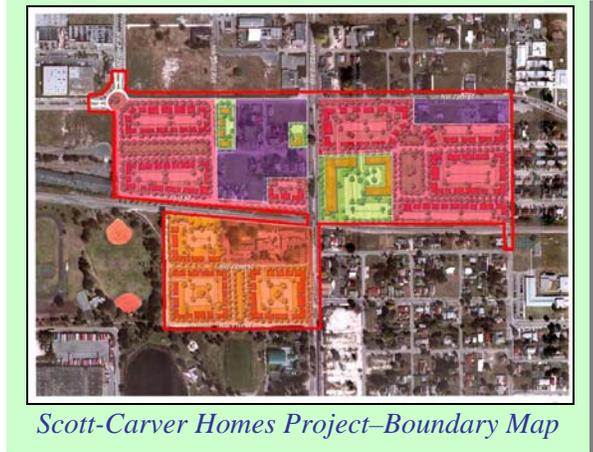
-Tentative Plat - MSA coordinated with client and selected Surveyor/Platting Consultant for submittal of the Tentative Plat to Miami-Dade County, including preparation of the submittal application to Miami-Dade County Platting Section.

-Prepared Applications for Administrative Review for Miami Dade County - Acted as a consultant to the development team and as a liaison between the development team and the County and State regarding public funding requirements, taxes and special tax matters, and other government-related matters; applicable to MSA's expertise.

PRELIMINARY MASTER PLAN DOCUMENTS – MSA assisted on the preliminary civil infrastructure master plan as follows:

-MSA assisted in preparing a demolition plan with emphasis on removal/relocation/abandonment of existing utilities required.

-MSA assisted the client's site planner/architect in developing an updated Master Site Plan by providing preliminary engineering assistance with the overall strategy for stormwater management.



-MSA performed preliminary stormwater management calculations to validate site plan's disposition of pervious/impervious areas, need/requirement for onsite wet/dry retention areas, drainage improvements, minimum site grades; including preparation of concept layouts for the paving, grading, drainage systems.

-Prepared conceptual water distribution and sewage collection systems layouts depicting size and horizontal alignment of existing and proposed water and sewer systems.

FINAL MASTER PLAN - MSA further refined the schematic plans submitted as preliminary master plan documents. Design modifications recommended by Team review, agency review, and refinement process were be incorporated to generate the final master plan documents.

MSA assisted in preparing a Final Narrative Book the contents of which were included in the Final Report with other related master planning documents; including schematic drawings, street sections, design & drainage assumptions, and infrastructure assessments. In addition, MSA performed quality control review of the Final Master Plan documents prepared by the design team.

CONSTRUCTION DOCUMENTS AND PERMITTING (PHASE II)

-Develop Site Preparation Plans - MSA assisted with the site preparation plan for review and permitting with the local and state agencies.

-MSA assisted in negotiating the Request for a Water & Sewer Agreement with MDWASD for the proposed development. In addition, MSA prepared and submitted permit applications packages and drawings to the following agencies for review and approval:

Water Distribution and Sewage Collection Systems

- Miami Dade Water and Sewer Department.
- Miami-Dade Fire Department.
- Miami-Dade Public Works Department.
- Miami-Dade County DERM - Water Supply & Wastewater Sections.
- Miami-Dade County Health Department.

Paving, Grading, Drainage, Traffic Signage & Pavement Markings Systems

- Miami Dade Public Works Department.
- Miami-Dade County DERM - Water Control Section.

CONSTRUCTION ADMINISTRATION / PROJECT CLOSEOUT - MSA is assisting during the construction phase of this project with the following:

- Performing civil infrastructure shop drawing review
- Attending weekly construction meetings to discuss civil infrastructure construction progress, address and resolve deviations and deficiencies.
- Performing periodic construction site observations, including NPDES inspections.
- Performing substantial completion review and punch list.
- MSA will perform final site observation & review of record drawings.

Project Cost: \$464,284

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
a	Milian, Swain & Associates, Inc.	Miami, Florida	Civil Engineering & Construction Management
b	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
e	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">8</p>
21. TITLE AND LOCATION (City and State) Road Reconstruction, Drainage Design & Construction Management for 14-Separate Sites- Phases I & II Miami-Dade County, FL.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (If applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER <i>City of Miami Public Works Department</i>	b. POINT OF CONTACT NAME <i>Tatiana Acosta</i> <i>(PWD Proj. Manager 2006)</i>	c. POINT OF CONTACT TELEPHONE NUMBER <i>(305) 416-1263</i>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



Phase I of the Project:

Milian, Swain & Associates, Inc. (MSA) provided pavement evaluation, recommendation, and design of improvements of 2.4 miles of residential subdivision streets. This project entailed the demolition of the asphalt and limerock base of 14 sites and reconstruction. Also, included in this project was the reworking of existing swales and sidewalks to ensure a proper stormwater plan line to the collection points. Spot drainage improvements were provided in the form of additional drainage structures and exfiltration trenches. Complete plan and profile plans depicting pavement resurfacing, reconstruction, regrading, swale reconstruction, pavement marking, signage and traffic control were prepared. MSA also provided specifications and engineer's opinion of probable construction cost.

Phase II of the Project:

MSA assisted the City during the construction phase of the project with the following services:

MSA attended along with the City of Miami staff the pre-construction conference. MSA clarified questions the contractor had regarding the construction plans and specifications. Meeting minutes were prepared and distributed to the City and the Contractor.

MSA was responsible for reviewing shop drawings submitted by the contractor, performed construction observations; coordinated with the Contractor's schedule to observe the general status and progress of the work. MSA attended monthly construction meetings to review the previous month's progress and ensure the project was proceeding according to the executed contract project schedule. MSA performed a final construction observation of the project sites and prepared a construction completion report for submittal to the City of Miami.



Project Cost: \$235,942.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a .	(1) FIRM NAME Milian, Swain & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, Florida	(3) Role Civil Engineering & Construction Management
b .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
f .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 9
21. TITLE AND LOCATION (City and State) Construction Management for Infiltration/Exfiltration/Inflow Sewer System Rehabilitation Program Miami-Dade County, FL.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2001	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami-Dade Water and Sewer Department	b. POINT OF CONTACT NAME Luis Aguiar, P.E./ John Chorlog	c. POINT OF CONTACT TELEPHONE NUMBER (305) 547-5316/ (786) 552-8102
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Milian, Swain & Associates, Inc. (MSA) staff participated in the Infiltration/Exfiltration/Inflow (I/E/I) Improvement Program of Miami-Dade Water and Sewer Department (MDWASD), as a subconsultant to Earth Tech, Inc. (formerly known as Rust Environmental and Infrastructure). Following are some of the tasks performed by the various members of MSA staff while working on site in the Program Management Office.

- Program Management Contract Administration – contract interpretation, payment and change order processing, close-out observation and finalization administration.
- Development and preparation of project budgets, and monitoring of financial results.
- Supervision and evaluation of field data to determine repair / replacements requirements.
- Review, approve and process monthly payment estimates for the various I/E/I construction contracts.
- Process Authorization to use Allowance Account.
- Process Change Orders.
- Make certain that all required submittals had been received and approved before allowing installation of materials covered by such submittals.
- Verify that the Contractor had the appropriate local construction permits and that they were available at the site at all times.
- Coordinate operation facilities, such as pump stations, with MDWASD representatives when interface was required.
- Inspection/construction supervision - individual inspection and on-site supervision and observation of force main construction and gravity line replacements.
- Make sure that all work had been tested and accepted, all punch list work had been completed, and all claims and complaints had been resolved.
- Process Final Payment.

Project Cost: \$920,000.00

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a .	(1) FIRM NAME Milian, Swain & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, Florida	(3) Role Construction Program Management & Financial Services
b .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
f .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 10
21. TITLE AND LOCATION (City and State) Everglades National Park Headquarters and Pine Island Wastewater System Improvements Miami-Dade County, FL.	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (If applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Everglades National Park Headquarters	b. POINT OF CONTACT NAME Brian Karmasin	c. POINT OF CONTACT TELEPHONE NUMBER (407) 660-2552
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Milian, Swain & Associates, Inc. (MSA) is providing professional engineering services for the wastewater system improvements for the Everglades National Park Headquarters and Pine Island. The following is MSA scope of services:

MSA prepared the engineering plans and technical specifications for the civil/mechanical engineering components of the wastewater collection, pumping and transmission system improvements; as well as regulatory permitting assistance consisting of the preparation of the Florida Department of Environmental Protection (FDEP) Construction Permit Application.

Analysis and Design - MSA utilized the topographic survey, available system as-builts, geotechnical investigations, and other available/pertinent site information to develop the engineering design plans for the proposed improvements. The system was designed to comply with the requirements of the FDEP and adhere to standard industry standards. The following are the proposed improvements designed by MSA for this project:

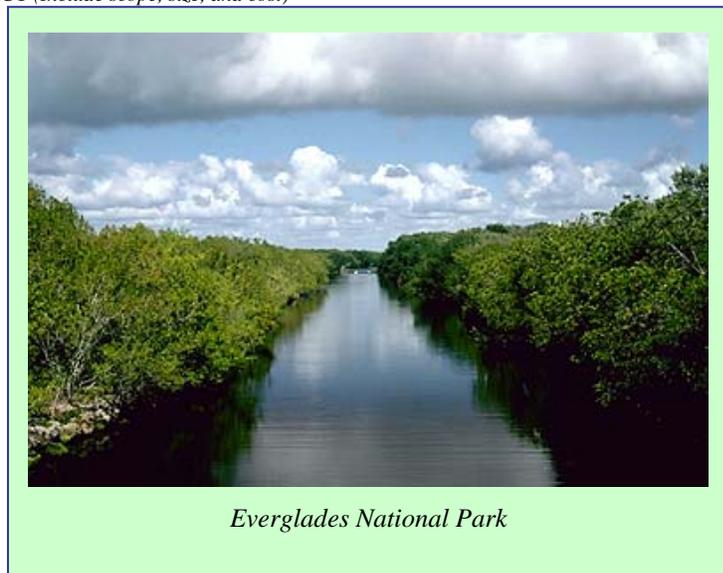
- Twenty-One (21) Septic Tank abandonment per HRS requirements
- Four (4) Duplex Grinder Pump Stations located at the Visitor Center, Headquarters, and Maintenance Facility
- Seventeen (17) Simplex Grinder Pump Stations as located at the Entry Gate, WWTF site and Housing/Bldg 105/Laundry

Regulatory Permitting Assistance - MSA assisted the National Park Service (NPS) with the preparation of the FDEP permitting applications and provided necessary supporting documentation, as required to satisfy the noted permitting agencies requirements.

Construction Phase Assistance – MSA is currently providing Construction Administration Assistance to the NPS such as:

- Shop drawings reviews
- Periodic site inspections
- Certification of the sewage collection, transmission and pump systems

Project Cost: \$58,926.00



Everglades National Park

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a .	(1) FIRM NAME Milian, Swain & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, Florida	(3) Role Civil Engineering, Permitting & Construction Phase Services
b .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
f .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY, ATTACHED ADDITIONAL SHETS AS NEEDED.

Milian, Swain & Associates, Inc. (MSA), a 20-person firm with offices in Miami and Ft. Lauderdale, Florida, specializes in providing Civil and Environmental Engineering, Financial, and Management Consulting Services. MSA was incorporated in January 1989 and is a CBE/MBE (100% Minority owned) firm with a diverse ethnic workforce and a proven commitment to affirmative action.

MSA is proud of its long history of providing professional engineering services to private and municipal clients. Our firm's experience has included planning, design, permitting and services during construction of a wide range of projects that include expertise in the following areas:

- Design, permitting and construction management of canal dredging, roads, drainage, water and wastewater pipelines, pumping stations, treatment and disposal projects for Miami-Dade Water and Sewer Department (MDWASD), as well as other agencies and municipalities.
- Project and construction management, including scheduling, cost estimating and inspection of civil and environmental projects for several agencies and municipalities.
- Design and permitting of primary and secondary drainage collection systems for land development projects, municipalities, etc.
- Design and permitting of roadway resurfacing projects, roadway drainage improvement, and roadway water quality improvements.
- Design and permitting of a drainage pumping station and associated drainage wells.
- Obtaining Environmental Resource Permits (ERP) and Consumption Water Use Permit from the South Florida Water Management District
- Obtaining environmental permits from Acquisition of Miami-Dade County Department of Environmental Resources Management (DERM): Class III, Class IV and Class VI Permit
- Acquisition of South Florida Water Management District Environmental Resource Permits (ERP) and Consumption Water Use Permit
- Civil Infrastructure Master Planning for public and private sector clients.
- Design of Water Transmission and Distribution Systems, including hydraulic analysis to verify fire and domestic flows.
- Design of Sanitary Sewer Collection Transmission and Pumping Systems.
- Design of Primary and Secondary Drainage Disposal Systems such as dry and wet retention, positive outfalls, gravity and injection drainage wells and drainage pump stations.
- Design of roadway improvements, for private developments and municipal clients.
- Project and Construction Management Services including scheduling, cost estimates, inspections and post-construction certifications.
- Economic Feasibility Studies and Value Engineering Services.
- Wetlands Restoration and Mitigation Programs.
- Financial, management, systems and accounting consultation
- Engineering and financial system development, implementation and training
- Public and private utility cost of service studies and rate design
- Environmental impact studies
- Stormwater billing data analysis, including dwelling unit and impervious area verification
- Expert testimony in all above areas

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

Arsenio Milian

32. DATE

June 8, 2011

33. NAME AND TITLE

Arsenio Milian, P.E., President

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Milian, Swain & Associates, Inc.			3. YEAR ESTABLISHED January 1989	4. DUNS NUMBER 787499185
2b. STREET 2025 SW 32nd Avenue, Suite 110			5. OWNERSHIP	
2c. CITY Miami	2d. STATE Florida	2e. ZIP CODE 33145	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Arsenio Milian, P.E., President			b. SMALL BUSINESS STATUS CBE/MBE	
6b. TELEPHONE NUMBER 305-441-0123	6c. E-MAIL ADDRESS amilian@milianswain.com		7. NAME OF FIRM (if block 2a is a branch office) N/A	
8a. FORMER FIRM NAME (if any) N/A			8b. YR. ESTABLISHED January 1989	8c. DUNS NUMBER 787499185

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	4	0	C15	Construction Management	2
08	CADD Technicians	2	0	E08	Engineering Economics	4
12	Civil Engineers	8	0	E09	Environmental Impact Studies	2
15	Construction Inspector	1	0	E11	Environmental Planning	2
63	Engineering Tech	1	0	E12	Environmental Remediation	1
64	Utility Accountants	4	0	E13	Environmental Testing & Analysis	1
				H12	Hydraulics & Pneumatics	2
				L06	Lighting(Exteriors, Streets; Memorials:	1
				R11	Rivers; Canals; Waterways; Flood Control	3
				S04	Sewage collection, Treatment, & Disposal	4
				S13	Storm Water Handling & Facilities	4
				T02	Testing & Inspection Services	2
				W02	Water Resources; Hydrology; Ground	1
				W03	Water Supply; Treatment and Distribution	4
	Other Employees					
	Total	20	0			

11 ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	-	1. Less than \$100,000	6. \$2 million of less than \$5 million	7. \$5 million of less than \$105million	8. \$10 million to less than \$25 million
b. Non-Federal Work	6	2. \$100,00 to less than \$250,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
c. Total Work	6	3. \$250,000 to less than \$500,00	4. \$500,000 to less than \$1 million	5. \$1 million to less than \$2 million	

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE June 8, 2011
c. NAME AND TITLE Arsenio Milian, P.E., President	



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/11/2010

PRODUCER 888-494-9844

HAROLD MORRISON
D/B/A C & C CONSULTANTS
P O BOX 701340
ST CLOUD, FL 34770-1340

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

NAIC #

INSURED

MILIAN, SWAIN & ASSOCIATES, INC.
2025 SW 32ND AVE
MIAMI, FL 33145

INSURER A: STEADFAST INSURANCE COMPANY

INSURER B: ZURICH AMERICAN INSURANCE

INSURER C:

INSURER D:

INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A	Y	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	GPL 5861499-06 \$10,000 DEDUCTIBLE	11/13/10	11/13/11	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 3,000,000 PRODUCTS - COMP/OP AGG \$ 3,000,000
B	Y	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	BAP 9680359-04	11/13/10	11/13/11	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA ACC \$ AGG \$
		EXCESS / UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE \$ RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ \$
		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under SPECIAL PROVISIONS below				Y/N <input type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A		OTHER CONTR. POLLUTION & PROFESSIONAL LIABILITY	GPL 5861499-06 \$10,000 DEDUCTIBLE	11/13/10	11/13/11	\$1,000,000 EACH OCCURRENCE \$3,000,000 GENERAL AGGREGATE

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

PROOF OF INSURANCE

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Harold Morrison

ACORD 25 (2009/01)

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ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/20/2010

PRODUCER (305) 714-4400 FAX: (305) 714-4401
BROWN & BROWN INSURANCE-HBA DIVISION
 2500 NW 79th Avenue
 Suite# 101
 Miami FL 33122

INSURED
 Milian, Swain & Associates, Inc.
 2025 SW 32 Ave Suite 110
 Miami FL 33145

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE		NAIC #
INSURER A:	Bridgefield Employers	10701
INSURER B:		
INSURER C:		
INSURER D:		
INSURER E:		

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR/ADD'L LTR	INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS								
		GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$								
		AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$								
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$								
		EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ \$								
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	52102933BIND	7/24/2010	7/24/2011	<table border="1"> <thead> <tr> <th>WC STATU-TORY LIMITS</th> <th>OTH-ER</th> </tr> </thead> <tbody> <tr> <td>E.L. EACH ACCIDENT</td> <td>\$ 500,000</td> </tr> <tr> <td>E.L. DISEASE - EA EMPLOYEE</td> <td>\$ 500,000</td> </tr> <tr> <td>E.L. DISEASE - POLICY LIMIT</td> <td>\$ 500,000</td> </tr> </tbody> </table>	WC STATU-TORY LIMITS	OTH-ER	E.L. EACH ACCIDENT	\$ 500,000	E.L. DISEASE - EA EMPLOYEE	\$ 500,000	E.L. DISEASE - POLICY LIMIT	\$ 500,000
WC STATU-TORY LIMITS	OTH-ER													
E.L. EACH ACCIDENT	\$ 500,000													
E.L. DISEASE - EA EMPLOYEE	\$ 500,000													
E.L. DISEASE - POLICY LIMIT	\$ 500,000													
		OTHER												

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

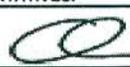
PROOF OF INSURANCE

CERTIFICATE HOLDER

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CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
 H INSURANCE GROUP/NM1 

Schwebke-Shiskin & Associates, Inc

3240 Corporate Way, Miramar, FL 33025

(954)435-7010

COMPANY BACKGROUND

Schwebke-Shiskin & Associates was founded in 1947 by Harry Schwebke. The firm began with five employees and offered strictly land surveying. Since that time, the company has become multi-discipline by adding civil engineering and land planning to its professional services. For some time the company also offered soil engineering, but has since eliminated that service. Although starting small, the firm had 150 employees during the land boom of the early seventies (mostly surveyors). Much of our development work then was done in what were very rural areas of South Florida. The cooling of that cycle and the advance of survey instrumentation (EDM's and total stations) allowed the company to contract in size. Generally, the firm size is in the range of thirty to forty employees today. While we have established a significant engineering practice, our core practice remains in land surveying and land planning.

Because of its long history, the firm enjoys very significant records. Much of our firms practice has involved major land development of projects (filing well over a hundred record Plats) in significant parcels of land (often many hundreds of acres). While these size parcels are less frequent today in South Florida, our firm is currently completing surveys of multiple sections owned by a large rock-mining firm. In addition our professionals have substantial experience managing large scale projects.

Schwebke-Shiskin has also performed many bathymetric surveys, endangered lands surveys, mean high water surveys, coastal surveys (beach transects, CCCL and ECL), submerged lands surveys (for lease applications), filled lands application surveys and acquisition surveys for FDEP through Miami-Dade DERM. Our firm also recently completed an approved Butler Disclaimer on the Miami River based on 1930 historical dredge maps and historical aerials.

Although our firm currently operates out of a large single office in Miramar, we have maintained several branch offices through the years - responding to the evolving work load. In the past we have maintained various offices from deep south Miami-Dade County north to Sebring. The geographic distribution of our work experience centered in and around those various offices.

PROJECT MANAGEMENT

Schwebke-Shiskin has an experienced surveying team. Our engineering multidiscipline provides for additional experience in tracking and managing a project or integrated project(s) over extended periods. While survey efforts are often less demanding in terms of extended timeline management, it is much more common for our engineering. We will utilize Microsoft Project for our larger management needs. Most minor projects will involve an initial completion commitment following a scope dialog/proposal and a weekly email disposition on outstanding work efforts. More significant projects will utilize accounting methods that are responsive to their scale and complexity (coordinated tasks).

Schwebke-Shiskin has surveyed a enormous number of sites (urban, rural, upland and submerged land) with varied scopes, filed record Plats (over 100), designed and built roadways, subdivisions, shopping centers and mixed-use developments. All of these efforts included complex assignments requiring coordinated diverse survey needs and simultaneous coordination with other consultants and regulating authorities.

Few projects, if any, are not time critical. We understand how to meet schedules, while maintaining quality in a safe work environment. This is particularly important since the much of our work occurs in challenging conditions. As such, crew safety and project awareness are critical to the successful, competent and

timely completion of survey efforts. Many of staff have had MOT training and most of our crews have also been 40 hour MSHA safety trained. The establishment of a safe work zone and work habits are first and foremost important in our project management.

AVAILABILITY

All Schwebke-Shiskin survey staff will be available to the administration of any work requested. Our firm's Survey resources amount to five survey crews, five cad technicians, one survey intern and four professionals, all of which have considerable years of experience. In addition, our engineering staff, is cross-trained and available for work efforts. Our survey crews are all led by Party Chiefs with extensive experience (one of which is licensed). Many of our Instrument Men are also Junior Party Chiefs – all capable of independently running GPS or crews for more defined survey tasks). We are available to work throughout the State, as may be appropriate. We have worked in the Bahamas and most recently in Haiti (several trips). We are most certainly open to working in all reaches of the state. Our general staff which is available for survey are as follows :

- A. Mark S. Johnson, PLS with 25+ years of experience (20 years licensed)
Principal, Senior Surveyor & Mapper
- B. Alfonso Tello, PLS, with 43+ years experience (32 years licensed)
Principal, Senior Surveyor & Mapper
- C. Jose Sanfiel, PSM, with 20+ years of experience (14 years licensed)
Assistant Project Manager, Senior Surveyor & Mapper
- D. Ron Fritz, PLS, with 42+ years experience (34 years licensed)
Senior Surveyor & Mapper

Additional Relevant Schwebke-Shiskin Staff for production:

- A. Chad Jackson, LSIT, with over 7+ years experience
Survey Intern and Field Manager
- B. Dean Jakway, with 25+ years experience
Survey Technician
- C. Jose Hernandez, with 10+ years experience
Survey Technician
- D. Jim Tello, with 10+ years experience
Survey Technician
- E. Luis Gonzalez, with 10+ years experience
Survey Technician
- F. Michael Alley, PSM, with 30+ years experience
Party Chief
- G. Don Britton, with 29+ years experience
Party Chief
- H. Steve Goolsby, with 40+ years experience
Party Chief

- I. Jose Barreiro, with 15+ years experience
Party Chief
- J. Angel Garcia, with 15+ years experience
Party Chief

TECHNICAL PLAN

Schwebke-Shiskin understands that survey assignments can vary dramatically. While many of these may be straight forward boundaries for acquisition, many may also include protected lands, submerged lands, limits of sovereign claim (mean high water or ordinary high water or locations of delineated lines). Although coastal/hydrographic surveys will include different elements (mean high water studies, transects, extension of tidal datum etc), in general all surveys will follow a general structured approach.

Upon receiving a work assignment and meeting/discus, we would begin by obtaining all documents and data necessary to recover or establish the proper horizontal and vertical control throughout the project (historical survey field notes, recorded maps, any available unrecorded maps that are relevant, bench marks etc.). For Control or Boundary projects (Section or otherwise), this will also include section sheets, certified corner records, and other evidence of control that is available from the local city, county and survey sections. Generally, we will also obtain dated aerials that may be utilized to plan work activities and further coordinate the survey. The Project Manager will then have a joint meeting with the Assistant Project Manager, and the other professionals within the firm to discuss the Any refinements to the work approach will then be finalized.

In general, the field process will proceed on along the following outline:

1. **Communication** – Crew chiefs must have a thorough understanding of their objectives and the procedures that will need to be utilized to obtain those objectives. SSA conducts in-house kickoff meetings that provide the crew chiefs with those objectives and the procedures that will need to be implemented to achieve them.
2. **Professional Review** – All data files are downloaded and field notes are reviewed on a daily basis by a Professional Surveyor and Mapper to assure conformance with minimum technical standards and accuracy of information submitted. Crew chiefs are debriefed daily.
3. **Data Consistency** – When running multiple crews or subconsultant on large scale data collection projects, SSA will customize the attribute, feature code and index files to assure consistency with monument descriptions and provide the reviewer with point and segment names with a prefix that identifies the crew or subconsultant (mapping points) that performed the work. Work segments will always include overlap points which will be re-shoot to provide a redundant data point for verification of the project file accuracy.
4. **Field Inspections** – Regular field inspections are conducted by our crew supervisor on all projects to assure that the work is being performed in accordance with those objectives and procedures and that safety and MOT procedures are being strictly adhered to.
5. **Database Comparison** – Descriptions in the RAW file for each segment collected will be reviewed and compared with the hard copy field notes. This assures that occupations were properly defined in the electronic file and verify the accuracy of the height of instrument (critical to the vertical integrity of the file data)
6. **CAD Checking** – Additional review and data evaluation will be performed by the CAD Technician during production assuring that any data sets exhibiting unexpected differencing are properly verified.

Schwebke-Shiskin field equipment includes a fleet of Topcon and Leica Total Stations equipped with Recon Data Collectors and four dual-frequency RTK GPS Units (Leica Series 500) with base radios (2). As a standard practice all of our fieldwork is collected electronically 3-d with linework. Currently we are utilizing SurveyPro for linework.

QUALITY CONTROL PLAN (and Quality Assurance)

Quality Control will be maintained by Professional Review of all field notes for accuracy and adherence to policy and procedure. In addition, communication will be stressed to ensure that the Field Parties and Office personnel have a clear understanding of the objectives of each particular project and the necessary procedures to accomplish them. The “need” for quality control can be minimized by better quality assurance.

Errors in the production of drawings is minimized by uniform point coding (fieldnotes) and cad standards. Drawings are prepared and cross-checked with checklists to prevent content oversights. Legals are proofread with secondary technicians. All cad is directly overseen by a professional.

Final survey drawings are always reviewed independently by more than one professional surveyor. The drawings are redlined and revised as necessary. The final revised drawing is then initialed by the reviewing surveyor and forwarded to the Project Surveyor for additional review and eventual signature.

Final submittals will consist of appropriate deliverable as directed.

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

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

1. This sworn statement is submitted with Bid, Bid or Contract No. RFQ #11-004 for
Professional Landscape Architectural/Engineering/Architectural/
Land Surveyor Services for Truman Waterfront Upland Design & Const. Admin.
2. This sworn statement is submitted by Trelles Architects
(Name of entity submitting sworn statement)

whose business address is 169 E. Flagler Street Suite No. 828
Miami, Florida 33131 and (if applicable) its Federal
Employer Identification Number (FEIN) is 59-2838174 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)
3. My name is Luis Trelles and my relationship to
(Please print name of individual signing)

the entity named above is Principal, Architect of Record
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]
(Signature)
June 28, 2011
(Date)

STATE OF Florida

COUNTY OF MIAMI DADE

~~LOIS ENRIQUE TRELLES~~ CLAUDIA WYNN
PERSONALLY APPEARED BEFORE ME, the undersigned authority,

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

space provided above on this 28th day of JUNE, 2011.

My commission expires:
NOTARY PUBLIC

[Signature]
CLAUDIA WYNN

FLDL T042-525-50-400-0
LOIS ENRIQUE TRELLES



CLAUDIA WYNN
NOTARY PUBLIC
STATE OF FLORIDA
Comm# EE102187
Expires 6/12/2015

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 LRA 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.

Luis E. Trelles By: *Luis E. Trelles* June 28, 2011
Luis E. Trelles, AIA

Sworn and subscribed before me this

28th day of June, 2011.

Claudia Wynn *CLAUDIA WYNN*
NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 6/12/2015

FL-DL-TU42-525-SU-460-0
LUIS ENRIQUE TRELLES

