



August 1, 2012

City Clerk
City of Key West
3126 Flagler Avenue
Key West, Florida 33040

RE: Request for Qualifications #12-005 for General Engineering Services

Dear City Clerk:

On behalf of URS Corporation Southern (URS), I would like to formally submit our qualifications to the City of Key West (City) in support of the General Engineering Services RFQ. Please find one (1) response marked "Original" and one (1) marked "Copy" – both include a CD of the entire RFQ response submitted within two separately sealed envelopes. URS is providing qualifications for the following two (2) categories of service: **1.** Civil Engineering Services; and **2.** Environmental Engineering Services.

1	Civil Engineering	2	Environmental Engineering
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URS is the best suited to serve the City through our South Florida-based staff of over 300 engineers, architects and scientists. Our local civil and environmental engineering expertise includes planning, design, and construction administration, permitting, environmental assessments, including sampling, analysis and monitoring, as well as preparing bids and proposal documents. Additionally, our professionals can work seamlessly as an extension of your staff providing the City direct-access to the expertise of one of the largest multidisciplinary engineering firms in the world.

We serve communities both on a select project basis and in the capacity of exclusive municipal consulting engineer and architect. In order to provide responsiveness through the duration of this contract, the URS Project Team is structured so that the contractual management is coordinated by one point-of-contact. **Mr. Raj Shanmugam, PE**, will serve as the Project Manager on behalf of the URS Team and will oversee the disciplines required by this solicitation. With over 26 years of experience, he is an expert in managing, budgeting, and successfully completing projects. Mr. Shanmugam will be supported by a team of local experts experienced at completing projects ahead of schedule and under budget.

URS has included the support of three well qualified subconsultants as follows:

- ▶ **CALTRAN Engineering Group** (CALTRAN) will provide Traffic Engineering and Data Collection services under the Civil Engineering contract. CALTRAN is prequalified with the FDOT and Miami-Dade Expressway Authority (MDX).
- ▶ **Island Surveying, Inc.** has been surveying the Florida Keys for over 20 years. We have included their expertise under the Civil Engineering Services contract. Mr. Fred Hildebrandt is a licensed professional land surveyor and civil engineer. In the community he has established long-term relationships as a member of the Sunrise Rotary of Key West, Chamber of Commerce, and Leadership Council of Monroe County.
- ▶ **Bell David Planning Group, Inc.** (BDPG) will provide Policy Planning Services for both the Civil and Environmental Services contract. Currently BDPG performs Project Management Services for the *Key West EAR-based Amendments, working with the City staff* to amend the Comprehensive Plan



through a process which includes stakeholder's participation, public workshops, intergovernmental scoping meetings, and policy meetings.



URS has significant experience providing general services to other municipalities throughout South Florida. Our firm has long standing relationships with the City of Doral, City of Wilton Manors, City of Coral Gables, City of Miami, Town of Davie, and with the City of Miami Gardens, to name a few. In Miami Gardens, our team recently completed the design and is currently overseeing the construction of their new LEED Platinum City Hall and Municipal Complex. Furthermore, URS maintains ongoing professional services contracts with the Florida Department of Transportation and Miami-Dade County. Our Miami office works closely with FDOT District VI as their General Engineering Consultant and we have served as the FDOT VI District-wide Environmental Permitting consultant for 3 consecutive terms. For Miami-Dade County, our professional staff has served as consultants to the Miami-Dade Department of Regulatory and Economic Resources (RER), previously DERM, for over twenty five years. In addition, URS maintains ongoing contracts with WASD, Parks and Recreation, GSA, MDT, and Port Miami. While this listing is just a select sample of our current clients, URS prides itself on providing quality on-call services to our municipal clients. For this reason, our workload comprises nearly 90 percent of our current business. If selected, URS will provide dedicated staff commitment to meeting your expectations the first time, every time.

As Principal-in-Charge and officer of the firm, I am authorized to enter into a contract with the City and I hereby commit that the resource requirements of this agreement will always be met. URS will maintain, in good standing, all licenses, certifications, and permits required under federal, state, and local laws necessary to perform the services during the term of this agreement. Should you have any questions regarding the content of this response please do not hesitate to contact me at the number provided below.

Kindest Regards,

Carlos Garcia, PE

Vice President / Principal-in-Charge

URS Corporation Southern

7650 Corporate Center Drive, Suite 400

Miami, Florida 33026

tel: (305) 262-7466 / cell: (305) 216-5324

fax: (305) 261-4017

Carlos.Garcia@URS.com

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1. City of Key West Forms
 - Certificate of Authority – Carlos Garcia, PE, Vice President
 - Anti-Kickback Affidavit
 - Equal Benefits for Domestic Partners Affidavit
 - Public Entity Crimes
2. Professional Team Licenses
3. URS Corporation Southern Licenses
4. Proof of Insurance
5. Acknowledgement of Addenda

A. Company Profile

About URS...



URS is one of the largest engineering design firms worldwide and a leading government contractor. We execute all types of engineering projects and offer a broad range of planning, engineering and architectural design, program and construction management, system integration, and operations and maintenance services.

We are a full-service, global organization with offices in the Americas, Asia-Pacific and Europe. We have over 55,000 employees in a network of more than 300 offices and contract-specific job sites in 20 countries. Our clients include the U.S. federal government, national governments of other countries, state and local government agencies in the United States and internationally, and FORTUNE 500 companies and other multinational corporations. URS has provided a wealth of multi-disciplinary professional services for several decades.



Top 500 Design Firms URS' 2012 Rankings

- #2 in Design
- #3 in General Building
- #2 in Transportation
- #2 in Highways
- #3 in Mass Transit & Rail
- #1 in Hazardous Waste
- #2 in Sanitary & Storm Sewers
- #1 in Green Design
- #3 in Government Office Green Design
- #1 in Education Green Design
- #1 in Bridges

Complete Company Profile / Corporate Structure

URS Corporation's oldest predecessor company was founded in 1904. URS was established in 1951, and incorporated in 1957 as Broadview Research—a research group active in the area of physical and engineering sciences. In 1967, management developed a growth strategy focused on building a multidisciplinary professional services firm. In 1968, Broadview Research acquired United Research Incorporated of Cambridge, Massachusetts. During this period, the name Broadview Research was changed to United Research Services and later shortened to URS.

Throughout the 1970s and 1980s, URS continued to expand through internal growth and strategic acquisitions that enhanced our engineering, architectural and environmental practices. These acquisitions included Madigan-Praeger; Coverdale and Colpitts; John A. Blume and Associates; Hill Dreman Chase; and Dalton, Dalton and Newport.

In 1996, URS further expanded with the acquisition of Greiner Engineering, which broadened our presence in the transportation market. The Woodward-Clyde Group joined URS in 1997, bringing additional environmental capabilities and a broader international presence to the organization. When Dames & Moore Group joined the Company in 1999, it further widened our geographic base, strengthened our program and construction management expertise, added to our FORTUNE 500 client base and expanded our presence in the mass transit market.

In 2002, the acquisition of EG&G Technical Services, a provider of management and technical support services to U.S. government agencies—the Departments of Defense and Homeland

Security in particular—positioned URS among the ranks of the leading U.S. federal services contractors.

The 2007 acquisition of Washington Group International enhanced URS' ability to provide integrated engineering and construction services throughout the project life cycle—from planning, design and engineering through construction to operations and maintenance, and decommissioning and closure. The acquisition also expanded our capabilities in the power and nuclear management markets, as well as in transportation, mining, defense, and industrial infrastructure and process.

In 2010, URS acquired the Scott Wilson Group—a global integrated design and engineering consultancy based in the United Kingdom. The acquisition significantly expanded our resources and capabilities in the United Kingdom and Ireland in critical infrastructure markets. It also expanded our global footprint in continental Europe, China and India.

Most recently, URS and Flint Energy Services began a new era, now operating as a combined company. Expanding in the oil and gas industry has been a long-standing strategy for URS, and the addition of Flint will have a transformational effect. Flint has built a highly respected and successful business providing construction and maintenance services to many of North America's largest energy companies, that is, 75 percent of Flint's business is derived from the development of unconventional oil and gas resources, which is critical to achieving North American energy independence. Together we offer a full range of engineering, procurement, construction and maintenance services to our clients for every stage of oil and gas production.

URS has the diversity of expertise, depth and breadth of resources, and hands-on experience to support our clients in all types of planning, design, permitting, and construction projects involving environmental, architectural, civil, mechanical, electrical, landscape architecture, survey, and mapping services. URS has developed long-term relationships with many of our clients by providing professional services that win their trust and respect. **Our philosophy is simple – working together to meet your goals means winning together.**

Past Performance

A hallmark of our services is the ability to consistently meet strict budgetary and scheduling requirements. It is noteworthy that this has been accomplished on complex projects involving a multitude of disciplines and multi-firm teams of consultants. We have consistently demonstrated our ability to mobilize quickly, to commence work on very short notice, and to perform multiple projects concurrently without sacrificing quality. One of the secrets of our successful performance is working as partners with clients to meet project challenges that require **“doing more with less.”**

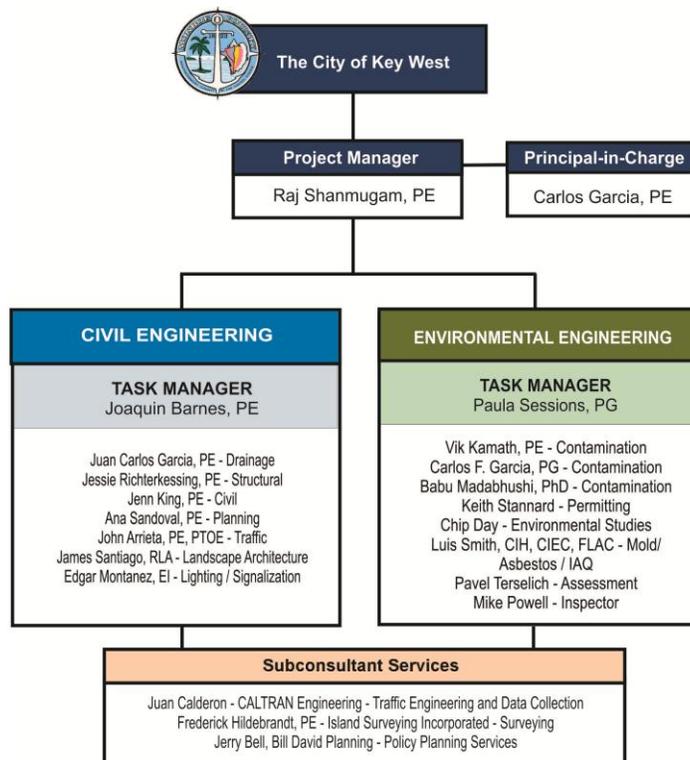
B. Qualifications of Personnel

As one of the largest architecture and engineering design firms in the nation, URS continues to maintain its reputation and expertise required to successfully support this **General Engineering Services RFQ for both Civil and Environmental Engineering**. Our professionals have years of diverse experience performing similar services where collaboration and coordination are of the essence and will be of utmost value to the City of Key West (City).

URS realizes that a successful project and a satisfied client depend on providing high quality work; assigning qualified, capable staff to all project activities; and providing a senior professional with good management and technical skills to manage the project. Our organization consists of strong senior leadership combined with motivated, experienced, and personnel empowered to deliver the services required by the City.

What sets URS apart from other consulting firms is the flexible way we apply our resources. Working in partnership with you, our client, URS begins with an overall program or project services strategy that takes into consideration your internal resources, your existing workload, and your desired level of URS participation in the project. Staff, services, technology - all are matched to your needs, whether you prefer our assistance as an extension of staff to supplement your internal resources or as a full consultant project management team to direct the implementation of your project. As your project develops, URS is ready with specialized expertise from throughout our organization to resolve any issue that may arise. We have the resources at hand to deliver what you need, when you need it.

URS' team is shown on the organizational chart below. Additional narratives describing the qualifications of our key personnel follow. Resumes of each team member by name and qualifications are located at the end of this section.



Location and Availability

URS has been providing continuing services to municipal clients throughout Florida for over 30 years. We have successfully served as general consultant for many clients within the Florida Keys including the Florida Department of Transportation, Monroe County, Monroe County Aviation, Islamorada – Village of Islands, and the Florida Keys Aqueduct Authority, to name a few. As Project Manager for URS' contract with Monroe County for Transportation Planning Services, **Mr. Raj Shanmugam, our proposed Project Manager** for this RFQ, is frequently in Key West attending meetings and representing the County, a contract he has held for over 20 consecutive years. He will be made available to the City of Key West as-needed to support this continuing services agreement.

Meet our Professionals

Raj Shanmugam, PE | Project Manager



Leading the URS Team will be Project Manager Mr. Raj Shanmugam, PE. Mr. Shanmugam is a Professional Engineer with a Master's Degree in Civil Engineering and over 26 years of experience. As a traffic and transportation engineer, Mr. Shanmugam has provided local planning expertise to communities extensively. He is knowledgeable in right-of-way planning, hosting community workshops and multiagency coordination. Additionally, he has significant experience assisting local communities in completing LAP funded projects. As Vice President of the Firm, Mr. Shanmugam will work closely on all contractual issue associated with this project. Furthermore, in addition to providing technical expertise and oversight, he will work closely with the URS Team Task Managers to make sure the resource requirements of this assignment are always met. Mr. Shanmugam has significant experience in providing consulting services on for continuing services contracts. Several examples include:

- **City of Wilton Manors General Engineering Services:** Under URS' continuing services agreement with the City of Wilton Manors, Mr. Shanmugam provided services on several traffic and transportation planning and design projects for the local community. The Powerline Boat Ramp included improvements to the local park including engineering and permitting for the addition of a new boat ramp.
- **Florida Department of Transportation District 6 General Planning Contract:** Project Manager for NE 125th Street/NE 6th Avenue/West Dixie Highway Intersection improvements in North Miami; Task Manager for the transportation section of the Monroe County Greenways project; Department appointed representative for Monroe County Bicycle Plan Task Team.
- **North Miami Beach Neighborhood Traffic Studies:** Project Manager responsible for developing, evaluating and recommending techniques to eliminate or reduce neighborhood traffic intrusion for several neighborhoods in the city.
- **Florida Department of Transportation District 4 Districtwide Enhancement Contract:** Project Manager responsible for developing design plans to implement roadway enhancement improvements (sidewalks, bike lanes, landscaping, pedestrian paths, etc.)



Civil Engineering



Joaquin Barnes, PE | Task Leader

Mr. Barnes is a Senior Civil Engineer and Project Manager responsible for engineering design and oversight of roadway infrastructure improvement projects. He has extensive knowledge of local standards, procedures, and protocols. In addition, he has extensive experience in the preparation of engineering documents and reports dealing with airport and roadway design including the coordination of management of large teams of experts that specialize in traffic, drainage, structures, lighting, and landscape architecture. Mr. Barnes is known for being a team leader. For example, he has worked directly with the staff of the City of North Miami Beach for over 15 years, in which he developed strong working relationship. *Mr. Barnes will serve as the Civil Engineering Task Leader on behalf of the URS Team.*

Environmental Engineering



Paula Sessions, PG | Task Leader

Ms. Sessions is a Professional Geologist and Senior Project Manager with over 24 years of experience in the environmental field. She currently serves as Project Manager for URS' contracts with the Miami-Dade Regulatory and Economic Resources (RER) department (previously DERM) where she provides environmental cleanup, compliance and related services on projects County-wide. Her responsibilities include interfacing with clients, preparing proposals, managing projects and providing technical guidance, maintaining schedules and budgets, and overseeing a team of geologists and engineers providing environmental assessments, sampling, analysis and monitoring, and construction administration. She will be supported by a team of experts which specialize in contamination assessment, remediation and monitoring as well as environmental permitting and mitigation. *Ms. Sessions will serve as the Environmental Engineering Task Leader on behalf of the URS Team.*

SUBCONSULTANTS

URS has taken great care to put together a team that includes subconsultants that can respond to the breadth of expertise required of them for each general service categories included in this proposal. The subconsultant firms on the URS team are as follows:



CALTRAN will be providing Traffic Engineering and Data Collection under the **Civil Engineering** portion of this contract. CALTRAN is a transportation engineering consulting firm specialized in traffic and highway analysis, traffic data collection, inventories, GIS, parking studies, signal traffic warrants, traffic operations and transportation special studies. CALTRAN's staff has been involved in transportation and traffic contracts with the Florida Department of Transportation (FDOT) and many other public and private agencies throughout the State of Florida providing similar services to those required by the City of Key West General Engineering Contract.

As you will see by their qualifications in each resume, CALTRAN has a highly capable group of professionals with extensive experience in projects within the City of Doral, City of Miami Beach, City of Sunny Isles Beach, City of Miramar, the Florida Department of Transportation (FDOT),

Miami-Dade County, Broward County, the Miami Dade Expressway Authority (MDX), and in assisting multiple private clients throughout the State of Florida.

CALTRAN is prequalified with the FDOT & Miami-Dade County for services such as: Traffic Engineering Studies, Traffic Signal Timing; Minor Highway Design; Signing, Pavement Marking and Channelization; Signalization; Systems Planning; Subarea/Corridor Planning and Transportation Statistics.

Island Surveying, Inc. has been serving the Florida Keys for over 20 years and will be providing surveying services under the **Civil Engineering** contract. Mr. Fred Hildebrandt has been in business as a professional land surveyor and civil engineer since 1983. In 2008, he established his latest land surveying company, Island Surveying, Inc. Fred's projects have ranged from individual pieces of property to most of the major parcels of land for the biggest developers in the Florida Keys. Mr. Hildebrandt is a member of the Sunrise Rotary of Key West, Chamber of Commerce, and Leadership Council of Monroe County.

One of the largest projects was the completion of surveys, condominium documents, and engineering reports for a 200 acre condo conversion. Some of the firm's previous projects include survey and design of subdivisions throughout the Florida Keys such as Ocean Reef Club, Curry Cove, Saddlebunch RV Park, Shark Key, Coral Coast, Key West Golf Course Development, Flagler Court/Paradise Court, Tranquility Bay; Casa Marina; Truman Harbor rehabilitation; Overseas Marketplace; renovation at Truman Annex; Cheeca Lodge; major shopping centers; a new Aviation Control Tower and Operations Building/Passenger Terminal; Florida Department of Transportation; Monroe Country H.U.D.; Bay bottom leases; large tract surveys; airfield vegetation conversion; USDA Animal Import Center conversion; hurricane-damaged shoreline restoration, and sanitary sewer replacement.



BDPG will provide Policy Planning Services under both the **Civil** and **Environmental** Engineering contract. The principals of Bell David Planning Group have over forty-five years of experience, in long-range and current planning. They boast a wide range of multi-disciplinary public and private sector experience in the following areas: Evaluation and Appraisal Reports; Comprehensive Planning; Land Use; Land Development Regulations; Annexations; Development Application Review; Facilitation; Grantwriting; and, Special Planning Studies.

BDPG currently performs Project Management services for the Key West EAR-based Amendments. The goal is to assess the City's planning efforts, practices, and policies in order to amend the adopted comprehensive plan and update the City's long-range planning framework. They are working, side-by-side with another subconsultant firm, and with the City staff to amend the Comprehensive Plan through a process that 1) enables all stakeholders to participate and include public workshops, intergovernmental scoping meetings, and policy meetings; 2) identify the City's key local planning issues; and 3) determine what policy changes are needed to achieve the City's vision.

Project Team Resumes



Rajendran Shanmugam, PE

Senior Project Manager

Overview

Mr. Shanmugam is a Senior Traffic Engineer, responsible for providing traffic engineering services for URS offices in the South Florida area. He has extensive experience in managing, budgeting, and successfully completing traffic operations and traffic safety contracts. As a manager, he oversees all aspects of traffic engineering and planning related activities in relation to any type of transportation projects in the south Florida area. Representative projects include the SR 80 Turnpike Interchange Justification Report (TIJR), Veterans Expressway Operational Improvement concepts, Identification of operational and safety improvement projects for the Florida's Turnpike and related facilities, several traffic operations and safety contracts with FDOT Districts 4 and 6. His experience also include managing and providing traffic engineering and planning related services to municipalities, such as, Monroe County, City of Wilton Manors, Town of Davie, City of North Miami Beach, City of North Miami, and City of Miami.

Prior to joining URS, Mr. Shanmugam worked with Florida Department of Transportation, District 4 Office, as District Traffic Services Engineer, Traffic Operations Engineer, and Access Management Engineer. During his eight-year employment with the District, he was actively involved in the rule-making process for Access Management Standards for the State highway system, and had the responsibility of implementing access management rules and standards in District 4. As the District 4 Traffic Services Engineer, Mr. Shanmugam managed both the Roadway Permitting and Access Management Offices.

His technical expertise include signal timing and operational analysis, signal timing plans, traffic operational improvements, and roadway signing and marking improvements.

Project Specific Experience

Transportation Planning and Engineering Services, Monroe County, Florida. Project Manager for projects that included the annual US1 Arterial Travel Time and Delay Study for 1994, 1995, 1996, 1997, 1998, 1999, 2000 and 2001; provided engineering support to the county by reviewing all traffic impact reports; responsible for all traffic engineering needs for the county including representing the county at public meetings, commission hearings and at quasi-judiciary settings as an expert witness, support for revising the transportation-related sections of the County's Land Development regulations; trip generation rates for land use; reassessment of the methodology for determining the Level-of-Service on US1; and congestion management assistance.

Districtwide Traffic Operations Safety Review Study, FDOT, District 4. Project Manager for this study to reduce crashes on roadways by developing recommendations for geometric and operational improvements. Services to be performed include traffic data collection,

Areas of Expertise

Project Management / Traffic Engineering / Traffic Safety / Traffic Planning & Calming / Access Management / IJR-IMR / Neighborhood Traffic Calming / Site Impact Studies / Minor Roadway Design

Years of Experience

With URS: 13 Years

With Other Firms: 13 Years

Education

MS / 1985 / Civil Engineering - Transportation / West Virginia University

BSc. / 1981 / Civil Engineering / University of Westminster (formerly Polytec. of Central London)

Completed Levels 1, II, and III of the Certified Public Manager (CPM) courses

Registration/Certification

1988 / Professional Engineer / Florida #39626

Professional Societies / Affiliates

Member, ITE International Chapter

Member, ITE Florida Chapter
TRB Access Management Committee

technical studies, and engineering studies, including conflict analyses and fatal crash reviews.

Districtwide Traffic Operations Safety Studies, FDOT, District 6. Project Manager for this study to reduce crashes on roadways by developing recommendations for geometric and operational improvements. Services to be performed include traffic data collection, technical studies, and engineering studies.

Traffic Operation Conceptual Design Studies, FDOT, District 4. Project Manager responsible for developing operational and safety improvement studies and 30% design plans.

Districtwide Traffic Operations Safety Studies, FDOT, District 6. Project Manager for this study to identify operational problems and develop improvements to maximize traffic flow and reduce crashes on state roadways.

Traffic Operations Push Button Design, FDOT, District 6. Project Manager responsible for developing design plans for minor roadway improvements.

Districtwide Enhancement Contract, FDOT, District 4. Project Manager responsible for developing design plans to implement roadway enhancement improvements (sidewalk, bike lane, landscaping, etc.).

Neighborhood Traffic Studies, North Miami Beach. Project Manager responsible for developing, evaluating and recommending techniques to eliminate or reduce neighborhood traffic intrusion for several neighborhoods in the city.

General Planning Contract, FDOT, District 4. Project Manager for ISTEPA Enhancement Application Review, DRI Application Review, Traffic Monitoring Site Inventory, ZDATA review and update for Broward and Palm Beach Counties, and GIS support.

General Planning Contract, FDOT, District 6. Project Manager for NE 125th Street/NE 6th Avenue/West Dixie Highway Intersection improvements in North Miami; Task Manager for the transportation section of the Monroe County Greenways project; Department appointed representative for Monroe County Bicycle Plan Task Team.

I-95 Master Plan, FDOT, District 4. Project Manager for Data Collection and Data Development Technical Report, and Existing and Future Base Conditions Technical Report.

District Traffic Services Engineer, FDOT, District 4. Responsible for managing permitting and access management offices. The permitting office is responsible for reviewing and recommending approval/denial of various engineering projects for work done within the Department Right-of-Way. The access management office is responsible for reviewing roadway improvement plans prepared by various FDOT offices as well as privately funded projects for conformance to access management standards; reviewing DRI applications for its impact on state roadways. Supervised a total of six people in both offices combined.



Carlos Garcia, PE

Principal-in-Charge

Overview

Mr. Garcia has extensive experience in the overall management and administration of engineering operations as well as a strong background in surface transportation engineering including transit and aviation design. His unique experience covers transportation projects from planning, PD&E, and final design including interstate corridors, complex interchange highway designs, HOV/Managed Lanes. Prior to joining URS for the Miami Office, Mr. Garcia worked for 8 years with the Florida Department of Transportation, District Six Office, as Internal Design Project Manager directing a multi-discipline design team working on numerous projects and finally as District Multi-Modal Planning Manager.

Areas of Expertise

Program Management
Project Management
Highway Design
HOV
Managed Lanes
Aviation Design
Transit Design
Design-Build
Public Involvement Programs
Traffic Engineering

Years of Experience

With URS: 14 Years
With other firms: 10 Years

Education

1984 / BS / Civil Engineering /
University of Miami

Registration/Certification

Professional Engineer / Florida
#41908

Project Specific Experience

Principal-in-Charge, NE 164 Street, North Miami Beach, Florida. Right-of-Way to Right-of-Way reconstruction of Hanford Boulevard (NE 164 Street). The project included the implementation of numerous beautification techniques, such as the installation of decorative light posts, paved asphalt crosswalks, sidewalk and median landscaping, and the use of neo-traditional streetscaping fixtures. It also included the use of exfiltration trenches, the connection to an outfall discharging to a nearby canal with the appropriate pollution control structures, and the use of a recently developed drip irrigation system. This project included extensive public involvement with nearby businesses.

Principal-in-Charge, Alleyway Improvement Program, North Miami Beach, Florida. Principal-in-Charge providing oversight for setting horizontal and vertical alignments, typical section configuration, and plans preparation for 137 service alleyways located throughout the City of North Miami Beach.

Principal-in-Charge, NE 18th Avenue Drainage Improvement, City of North Miami Beach, FL: Principal-in-Charge providing oversight of the management for the 18th Avenue Drainage Improvement project which proposed an independent collection system designed to considerably reduce overland flow and flooding within the project area. The drainage design included construction of french drains and the disconnection of the 18th Avenue drainage system from the existing 60-inch pipe outfall. It also included the construction of a CDS unit connected to a new 48-inch outfall pipe in order to meet water quality criteria established by the South Florida Water Management District (SFWMD) and the Department of Environmental Resources Management (DERM).

SR 826 / SR 836 Interchange, Miami-Dade County (URS Corporation, 2002-Present). Project Director for the master plan development, final design and plans preparation of a fully directional interchange, including direct connectors to “Managed Lanes” along SR-

836. This project includes a number of complex interchanges at Flagler Street, Dolphin (SR 836) Expressway, Miliam Dairy Road and NW 87th Avenue. Several design constraints involved in the project include airport aerial easements, canal relocations, the CSX Railroad corridor, the East-West Transit Alignment (including ramp access to a transit station) and maintaining freeway traffic within the existing interchange during construction. The drainage system includes dry retention ponds, french drains and outfalls to nearby canals with appropriate pollution control structures. Total construction costs are estimated at \$600 million dollars. Reference: FDOT 6 Project Manager: Ali Toghiani, PE (305) 470-5343

MIC / MIA Interchange, Miami-Dade County, FL (URS Corporation, 2002-2007). Project Director responsible for the final design and preparation of construction documents for the interchange on LeJeune Road (NW 42nd Avenue) and NW 21st Street. This complex interchange project includes four steel plate girder, two steel box girder, and four concrete girder bridges within the interchange. Critical elements within this 3-level interchange project includes maintenance of traffic during construction for the Miami International Airport access roadways, accommodating the MIA Automated People Mover Transit Project, the MDX Interconnector Project, and the concurrently constructed Miami Intermodal Center and associated Rental Car Facility. Estimated construction cost is estimated at over \$40 million dollars.

I-95 Design-Build HOV Widening, West Palm Beach, FL (URS Corporation, 2002-2006). Project Director for the design portion of this Design-Build project in partnership with PCL Constructors. The project includes the widening and reconstruction of 2.8 miles of Interstate 95 from North of Blue Heron to PGA Boulevard. The project includes adding HOV lanes in the median, auxiliary lanes to the outside, and bridge replacements for Northlake Boulevard, Burns Road, and Holly Drive. In addition, the project includes Sound Barrier Walls, culvert extensions, MSE walls, signalized intersections, and extensive public involvement meetings. Construction cost is estimated at over \$68 million dollars. Reference: FDOT District 4, John Thompson, PE, Project Manager (954) 777-4680

State Road 836 Expressway Reconstruction and Toll Plaza Replacement, Miami-Dade County (URS Corporation, 1999-2002). Project Director for this \$33 million project that includes reconstruction of SR 836 (Dolphin Expressway) between Northwest 27th and 17th Avenues, including two express AVI toll lanes, a toll plaza equipped with SunPass, an electronic toll collection system, five bridges, construction of a satellite toll plaza on the Northwest 17th Avenue ramps, reconstruction of the 17th Avenue eastbound ramps and provisions for the proposed East-West Rail Line to the airport and seaport. Reference: Miami-Dade Expressway Authority, Sam Gonzalez, Project Manager (305) 637-3277



Joaquin R. Barnes, PE

Task Leader: Civil Engineering

Overview

Mr. Barnes is a Senior Project Manager responsible for the management and oversight of municipal Civil Engineering assignments. Most recently, Joaquin served as the engineer of record for the reconstruction of the main road leading from the scalehouse at the Collier County Landfill. Mr. Barnes has also been working directly with the City of North Miami Beach for over 15 years and has developed an exceptional one-on-one relationship with the staff. During this time he has served as the Project Manager for the civil design of the first five phases of the Hanford Boulevard Reconstruction project, the NE 18th Avenue Drainage Improvements Project, the first eight phases of the Citywide Alleyway Reconstruction Program, and the recent Fulford City Center District Master Drainage Plan project.

Areas of Expertise

Roadway Design and Plans
Preparation of Highway Design Projects
Preparation of Engineering Documents and Reports Dealing With Airport and Roadway Design

Years of Experience

With URS: 16 Years
With Other Firms: 16 Years

Education

MBA / 2000 / Florida International University
BS / 1994 / Civil Engineering / Florida International University

Registration/Certification

2001 / Professional Engineer / Florida #57388
1996 / Engineering Intern / Florida #1094ET530

Project Specific Experience

Project Manager, NE 164 Street, North Miami Beach, Florida. Right-of-Way to Right-of-Way reconstruction of Hanford Boulevard (NE 164 Street). The project included the implementation of numerous beautification techniques, such as the installation of decorative light posts, paved asphalt crosswalks, sidewalk and median landscaping, and the use of neo-traditional streetscaping fixtures. It also included the use of exfiltration trenches, the connection to an outfall discharging to a nearby canal with the appropriate pollution control structures, and the use of a recently developed drip irrigation system. This project included extensive public involvement with nearby businesses.

Collier County Landfill, Naples, Florida. Senior Engineer for the reconstruction of the main road leading to and from the Collier County landfill scalehouse. The project included the installation of a new fourth commercial scale, reconstruction of the existing road with concrete aprons, drainage improvements, and the installation of a new watermain.

Project Manager, Alleyway Improvement Program, North Miami Beach, Florida. Project manager responsible for setting horizontal and vertical alignments, typical section configuration, and plans preparation for 137 service alleyways located throughout the City of North Miami Beach.

Project Manager, NE 18th Avenue Drainage Improvement, City of North Miami Beach, FL: Managed the 18th Avenue Drainage Improvement project which proposed an independent collection system designed to considerably reduce overland flow and flooding within the project area. The drainage design included construction of french drains and the disconnection of the 18th Avenue drainage system from the existing 60-inch pipe outfall. It also included the construction of a CDS unit connected to a new 48-inch outfall pipe in order to meet water quality criteria established by the South Florida Water Management

District (SFWMD) and the Department of Environmental Resources Management (DERM).

Trailglades Park - Miami Dade County Parks & Recreation Department, Miami, Florida. Project Engineer in the restoration of an existing shooting facility in Miami. Responsible for upgrading the existing access road and parking areas, including drainage, lighting, and signing and pavement markings. The work is scheduled for completion in separate phases with completion projected for summer of 2010.

SR 826 / SR 836 Interchange, Miami-Dade County, Florida. Highway engineer for the final design and plans preparation of a four-level, fully directional interchange with direct responsibility for signing and pavement markings, quantity computations, horizontal and vertical geometry, topographic files integration, maintenance of traffic, and superelevation transition calculations. Task manager for the Maintenance of Traffic design and phasing. Also responsible for plans preparation, which included drainage plans, lighting plans, profiles, terminal details, typical sections, interchange layouts, bridge hydraulic report, and baseline control plans.

Project Manager, Sombrero Beach Road, City of Marathon, Florida. Project manager for the milling and resurfacing and widening project of a 1.7 mile section of Sombrero Beach Road between Sombrero Beach Boulevard and Avenida Primiceria. Direct responsibility for horizontal and vertical alignment, maintenance of traffic, quantities, and supervision of all other components needed. The project included roadway, drainage, and lighting improvements, the addition of a bicycle lane, and permitting.

MIC/MIA Interchange, Miami-Dade County, Florida. Project manager for the post design services associated with the reconstruction of SR 953 (LeJeune Road) and NW 21st Street, the realignment /reconstruction of all the ramps of the interchange, the replacement of seven bridges and the construction of three new bridges.

Project Manager, City of Miami, Florida. Project manager for nine separate roadway rehabilitation projects. Projects included milling and resurfacing, complete reconstruction, sidewalk repair, drainage improvements, parking area delineation, signing and marking, and construction support services.

Project Engineer, University Drive / Pembroke Road, Miramar, Florida. Project engineer for the milling and resurfacing and widening project of the intersection between SR-817 and SR-824. Direct responsibility for maintenance of traffic, horizontal and vertical geometry, quantities, and all post design services such as shop drawing approval, request for information responses, and attendance at the weekly construction progress meetings.



Paula D. Sessions, PG

Environmental Engineering/ Permitting

Areas of Expertise

Hazardous and Non-hazardous Soil /
Groundwater Assessment and
Remediation / Waste Characterization /
Pre-Construction Assessments /
Construction Management
Permitting

Years of Experience

24 Years of Experience
With URS: 12 Years
With Other Firms: 12 Years

Education

1984 / BS / Geology / University of
Texas at Austin
Graduate Studies / Hydrogeology
/Florida International University
University of Louisville, Short-Course in
Highway Noise Analysis

Registration/Certification

Professional Geologist / Florida # 1416

Overview

Ms. Sessions has over 24 years of professional experience in the environmental engineering field. She is currently managing the E04-DERM-01 contract with Miami-Dade County with a value of \$3.0 million and various other projects with private clients including Wal-Mart and AIG. She recently served as the project manager for URS' City of Miami Environmental Engineering contract. Her responsibilities include interfacing with clients, preparing proposals, managing projects including providing technical guidance, maintaining project schedules and budgets, client invoicing and collection, and overseeing a staff of geologists and engineers.

Project Specific Experience

Project Manager, Lakes by the Bay Monitoring, Miami-Dade Parks, FL. Managing the preparation of a gas monitoring plan and the installation of groundwater monitoring wells and gas monitoring wells at a former C&D landfill now owned by Miami-Dade Parks and slated for future development as a recreational park. The project also includes one year of monitoring of groundwater and soil gas.

Project Manager, RAP Mod & NPDES Permitting, System E, NWCA at MIA, MDAD, FL. Managed the Remedial Action Plan Modification and NPDES permitting of a 500-gallon per minute capacity groundwater treatment system located in the Northwest Cargo Area at Miami International Airport. The treatment system effluent was to be redirected to a nearby storm-drain, thus the necessity of the NPDES permit.

Project Manager, Brownfields Site Assessment and Cleanup, Wal-Mart - Inverness, FL. Managing the assessment and cleanup of a Brownfields site in central Florida that has groundwater contaminated with chlorinated solvents from former asphalt plant operations.

Project Manager, Concourse F Site Assessment at MIA, MDAD, FL. Managing the assessment of free product in four separate areas around Concourse F at MIA. The assessment includes the installation of soil borings and monitoring wells adjacent to an active underground fuel hydrant line while working in close proximity to active airline gates.

Miami, FL Project Manager, Secondary Canal Sampling in Miami-Dade County, SFRC&D, FL. Managed a project involving the sampling and characterization of sediment from select secondary canals located throughout Miami-Dade County. The canals are scheduled for dredging to provide additional capacity to reduce the potential of flooding as experienced during Hurricane Irene and the no-name storm of October 2000.

Project Manager, \$3.3 Million Professional Services Agreement with Miami-Dade Aviation Department (MDAD), FL. Managed projects including hazardous and non-hazardous waste site investigations, oversight of construction activities in the Westside Cargo and Midfield areas at MIA, Contamination Assessments, pre-construction assessments, Phase I and Phase II assessments, canal sediment characterization, and removal and relocation of native species from canals at MIA.

- Project Manager for Ford and Goodyear environmental work in Florida. Responsibilities included interfacing with client, maintaining project schedules and budgets, assigning work to junior engineers, and overseeing technical aspects of the projects. Managed projects including tank removals, oil/water separator and soakage pit assessments, and Phase I and Phase II assessments.
- Managed and performed in excess of 75 Phase I and Phase II environmental site assessments of industrial, agricultural, and commercial facilities. Clients included the Coca-Cola Company, Ford, Goodyear, and the Miami-Dade Aviation Department.
- Worked as part of a three-person team responding to EPA Consent Order for preparation of four emergency contingency plans on behalf of the Miami-Dade County Water and Sewer Department. Approval by the Environmental Protection Agency obtained on first submittal. The plans addressed emergency procedures for accidental sewage discharges throughout Miami-Dade County.
- Performed 10 project development and environmental (PD&E) studies for the Florida Department of Transportation (FDOT) Districts 6, 3, and 1. Assisted in preparing categorical exclusions, environmental assessments, environmental impact statements, and their supporting noise study reports, air quality reports, hazardous material evaluation reports, section 4(f) statements, and permit coordination reports. Assisted in performing a preliminary study of the proposed Lee County Beltway. The study included looking at various proposed corridors for potential impacts to wetlands, potential hazardous material impacts, and impacts to sensitive noise receptors.

Project Manager, FEMA/Canal Restoration Project in Miami-Dade County, DORM, FL. Managed the design for dredging activities of 70,000 lineal feet of secondary canals throughout Miami-Dade County. Served as role of Master Consultant under DORM overseeing consultants performing the design and survey work for canals.

Project Manager, Misc. Phase I and Phase II Assessments, City of Miami, FL. Managed the Phase I and Phase II investigations of numerous properties for the City of Miami that were included in the City's redevelopment and revitalization plan, including the Miami Arena.



Juan C. Garcia, PE

Task Leader: Drainage / Stormwater

Overview

Mr. Garcia has over 19 years of experience in Stormwater drainage design for South Florida projects.

Project Specific Experience

FDOT District VI, S.R. 826 Interchange at S.R. 836. Drainage Engineer in responsible charge of the drainage design for the entire interchange reconstruction. Design responsibilities included drainage modeling of the stormwater management systems using the AdICPR floodrouting software, and preparation of the permit sketches and documentation for the SFWMD, DERM, FDEP, and the USACOE. In addition, Bridge Hydraulics analyses and scour evaluations were conducted for the bridges over a relocated North Line Canal, Venetian Canal, and Airport Canal.

Miami-Dade Expressway Authority NW 17th Avenue Toll Plaza at SR 836, Miami-Dade County, FL. Drainage Engineer in responsible charge of drainage design for this \$25 million project that includes reconstruction of 836 between Northwest 27th and 17th Avenues, including a toll plaza equipped with SunPass, an electronic toll collection system, five bridges, construction of a satellite toll plaza on the Northwest 17th Avenue ramps, reconstruction of the 17th Avenue eastbound ramps and provisions for the proposed rail line to the airport and seaport. Design included the modeling of all of the watersheds using the advanced interconnected pond routing (AdICPR) computer model in order to determine the FDOT critical storm, and the proposed water stages.

Miami International Airport New Northside Runway. Drainage engineer in charge of the proposed drainage design for the new runway. Design responsibilities included drainage modeling of the Northwest Cargo Area Watershed and the Terminal Area Watershed using the AdICPR Computer. A pre-post analysis was developed in order to satisfy SFWMD permitting criteria, while a Storm Water Pollution Prevention Plan was developed to satisfy FDEP permitting criteria.

FDOT District 6 S.R. 826 Interchange at NW 58th Street, FL. In charge of the drainage design for the reconstruction of the S.R. 826 interchange at N.W. 58th Street. Design responsibilities included the relocation of the N.W. 58th Street Canal, as well as erosion control and regulatory agency permitting.

Monroe County Aviation Miscellaneous Aviation Projects. Engineer-in-Charge of the drainage design and permitting for various aviation projects including the new taxiway at the Marathon Airport, Parking Lots A and B and ARFF Building at the Key West International Airport, and the M/N Taxiway Connectors at the Miami International Airport.

Areas of Expertise

Stormwater Drainage Design

Years of Experience

With URS: 12 Years

With Other Firms: 12 Years

Education

1988 / BS / Civil Engineering /
Florida International University

Registration/Certification

1992 / Professional Engineer /
Florida No. 46597

S.R. 836 WBCD, Miami, FL. Drainage Engineer in responsible charge of the design for the Westbound Auxiliary lane along S.R. 836, from N.W. 57th Avenue to N.W. 72nd Avenue. Design challenges included coordination with the future drainage design for the reconfiguration of the S.R. 826 / S.R. 836 interchange, and the proposed future widening of S.R. 836.

I-95 HOV D/B, Palm Beach County, FL. Drainage Engineer in responsible charge for the design modifications to Interstate 95 from Blue Heron to PGA Boulevard that came about as a result of a Design/Build proposal. Design responsibilities also included obtaining the required permit modifications for the proposed design changes.

MIC/MIA Interchange, Miami, FL. Drainage Engineer in responsible charge of the overall drainage design for the proposed interchange reconstruction. Additional design responsibilities included the hydraulic design of the bridge foundations within the proposed reconfiguration of both the Tamiami Canal (C-4) and the Miami International Airport's Outfall No. 2 Canal using the WSPRO Water Surface Profile software.

Autopista Prospero Fernandez, Costa Rica MOPT. Drainage Engineer in responsible charge for the drainage and hydraulic PD&E study for a 9.5 kilometer section of highway connecting the city of San Jose with the city of Caldera in Costa Rica. This study included rural and urban sections, as well as four crossings over major rivers.

FDOT District 6 US-1 over Jewfish Creek (Metric Engineering): Drainage Engineer in responsible charge for the PD&E study of the proposed US-1 bridge over Jewfish Creek in Key Largo, Florida. The study included conducting a basin study for the tidally controlled inlets and channels that comprise the US-1 corridor from Florida City to Key Largo.

FDOT District 6 S.R. 826 Interchange at Bird Road, FL. (Consul-Tech Engineering): Drainage Engineer in charge of the overall drainage design for the proposed interchange configuration. Design responsibilities included existing basin analysis using the advanced interconnected pond routing (AdICPR) computer modern, and public involvement in order to establish appropriate design parameters.

FDOT District 6 Golden Glades Toll Plaza, FL. (Consul-Tech Engineering): Drainage Engineer in responsible charge of stormwater facilities, stormwater pollution prevention plans, and overhead sign structural design. The design of the toll plaza widening and of the approach lanes' reconfiguration involved AdICPR modeling of the drainage basins, water quality treatment, water quality treatment, water quality attenuation treatment, hydraulic conveyance systems, and erosion control..



Jesse Richterkessing, PE

Structural Engineer

Overview

Mr. Richterkessing has over 14 years of experience and has focused specifically in the area of structural design of highway related structures. His project experience includes design, analysis and inspection of several post-tensioned concrete segmental bridges, precast girder bridges, steel girder bridges and other various transportation structures. He's been involved in highly specialized tasks, like evaluation of non-destructive testing methods for segmental concrete bridges, and the design of segmental bridges along with the load rating of segmental bridges under the LRFR guidelines in the State of Florida. Mr. Richterkessing's knowledge of several software programs include BD-2, SAP2000, Leap Bridge Suite, MDX and FLPier for analysis, AutoCAD and Microstation for detailing and the creation of Excel spreadsheets for repetitive calculations.

Areas of Expertise

Civil / Structural Design
Analysis and Inspection
Bridges, precast girder bridges, steel girder bridges and other various transportation structures

Years of Experience

With URS: 2 Years
With Other Firms: 12 Years

Education

BS/1998/Civil Engineering/
Florida State University

Registration/Certification

Professional Engineer/ Florida
#60230

Project Specific Experience

Port of Miami Tunnel, Dodge Island,, Miami, FDOT District VI. Senior Structural Engineer serving as reviewer for the Cut and Cover Tunnel Structure, the U-wall structure and miscellaneous structures on the Dodge Island side of the tunnel. The task involved review of design calculations and plans for the structure.

Port of Miami Rail and Highway Bascule Bridges Inspection and Assessment, Miami.-Senior Structural Engineer serving as the project manager for the inspection and assessment of the existing bascule bridges. The project was to inspect and assess the existing bascule bridges and provide a cost to bring the bridges back into service. Tasks included coordinating all inspection aspects for the bridges for the different disciplines including structural, electrical, mechanical and underwater.

Port of Miami Western Port Blvd Bridge Inspection and Load Rating, Miami.-Senior Structural Engineer serving as the lead inspector for the bridge inspection and performed the load rating analysis for the existing bridge based on the 2011 Bridge Load Rating Manual.

I-95 SB Off-Ramp to Lantana Road - Ramp K Widening and Structure E TRB Retrofit, FDOT District IV. Estimated construction cost: \$ 3 M; Design Fee: \$ 240,000; Estimated Completion Date: 2015. Lead Structural Engineer for the 6-span widening of Ramp K and barrier retrofit of Structure E under the FDOT – D4 Emergency Bridge Contract. The widening will be done with FIB 45 beams for the superstructure to match the existing height of the existing AASHTO beams. The substructure will be made of a single hammer-head pier founded on 18” sq-in concrete piles. The project also includes about 800 ft. of proprietary MSE walls and 700 ft. of temporary critical sheet pile wall.

SR 826/ SR 836 Interchange Design-Build-Finance Project, Miami.

Senior Structural Reviewer of plans and calculations of several Categories 1 and 2 bridge structures in final design phase. This is a fully directional 4-level interchange with over 40 bridges, composed of prestressed concrete beam, steel plate girder, and segmental bridge structures.

Reference: FDOT District 6, Ali Toghiani (305) 470-5343.

Florida Department of Transportation, FDOT – District VI, MIC-MIA (Miami Intermodal Center – Miami International Airport) (DMJM-Harris, 2008-2009)

Structural Engineer on-site for the light rail station construction located at Miami Intermodal Center adjacent to the Miami International Airport. Work included assisting CE&I and contractor for interpreting plan information due to poor detailing and multiple revisions, providing additional details for contractor, answering RFI's, review of shop drawings, and providing engineering support for Architectural staff throughout the construction of the facility. Facility included 7 post-tensioned straddle bents supporting 6 spans of guideway (consisting of Florida U-beams), the station platform (consisting of C.I.P. floor beams and hollow core slabs) and the roof system (consisting of vaulted C.I.P. concrete, double Tees, and hollow core slabs). In addition the facility included a pedestrian bridge supported by post-tensioning rods, 3 stair towers and an elevator shaft.

Mississippi Department of Transportation: In-depth Inspection, I-110 Interstate Connector, Biloxi, MS. (DMJM-Harris, 2002)

Bridge Inspector for the first in-depth inspection of this 44-span precast, post tensioned, segmental concrete bridge. The goal was to ascertain its physical condition in light of the defects found in Florida precast concrete segmental bridges; to provide retrofit alternatives; and to perform a load rating evaluation. The inspection included a hands-on visual examination of the superstructure and substructure; non-destructive testing of the external tendons by borescope and impulse radar; and non-destructive testing of the anchorages by borescope and ultrasound. A combination of a UB-60, UB-30 and 24-foot bucket trucks were used to inspect the exterior surfaces of the four parallel box girders. Responsibilities also included preparation of the final inspection report. The report incorporated NBIS and PONTIS documentation of the inspection.



Jenn King, PE

Senior Engineer / Agency and Stakeholder Coordination

Areas of Expertise

Project Management
Project Development &
Environment (PD&E) Studies
Traffic Engineering
Traffic Safety
Public Involvement
Public Transportation
Traffic Data Collection
Roadway Design
Drainage Design

Years of Experience

With URS: 5 Years
With Other Firms: 10 Years

Education

1994 / BS / Civil Engineering /
Worcester Polytechnic Institute /
International Scholar

Overview

Ms. King is a Florida-registered Professional Engineer, with more than twelve years of experience in a wide range of areas, including project management, PD&E studies, National Environmental Policy Act (NEPA) compliance, the Efficient Transportation Decision Making (ETDM) process, traffic engineering, roadway design, and drainage. Experienced in managing engineering teams, with a strong background in traffic engineering, traffic safety and operation studies, site development, land use planning, traffic impact studies, traffic calming, and expert witness testimony. Technical design experience includes being primary roadway designer for an eight-mile, four-lane total roadway reconstruction project, designing and permitting on-line and off-line, rural and urban roadway drainage systems, designing maintenance of traffic plans for reconstruction projects, and designing signing and marking plans for interstates, arterials and local properties.

Relevant Project Specific Experience

Transportation Program Support Services, City of Miami. Senior Project Engineer providing a wide variety of services, including reviewing Traffic Impact Reports of Large Scale Developments and Major Use Special Permit (MUSP) applications, assisting in the development of guidelines for the Miami-Dade person-trip methodology, and supporting the Evaluation and Appraisal Report (EAR) process for the Comprehensive Plan, by identifying needed improvements, prioritizing the critical projects and presenting findings at meetings.

City of Wilton Manors. Primary author of Neighborhood Traffic Calming Studies for both Section 2 and Section 4 of the City, including presenting at public meetings, data collection, analysis, and the culminating studies.

Transportation Planning and Engineering Services, Monroe County. As Senior Project Engineer, composed the Big Pine Key Cross-Island Connector Alternatives Evaluation Report, to determine and evaluate nine new local island connections; prepared the Traffic Report for the PD&E Study on U.S. 1 (S.R. 5) in Big Coppitt Key; wrote the Big Pine Key Transportation Improvement Study, assessing capacity improvements and parallel corridors for U.S. 1 (S.R. 5); prepared the U.S. 1 Arterial Travel Time and Delay Study annual update, assessing segment levels of service (LOS); updated the Monroe County Traffic Report Guidelines Manual.

Districtwide PD&E / ETDM Support Services, FDOT IV. Deputy Project Manager over a variety of tasks for PD&E studies and ETDM screenings, including the 400-mile FEC Amtrak High Speed Rail project from Jacksonville to Miami, a 50-mile C.R. 609 proposed corridor PACE Study, including a dedicated busway, in Martin, St. Lucie, and Indian River

Counties; and the analysis of High Occupancy Toll (HOT) managed lanes on I-95 in Broward County.

S.R. 968 (S.W. 1st Street) Bascule Bridge Replacement PD&E Study, FDOT VI. Senior Project Manager on this PD&E study with full NEPA and SAFETEA-LU processes, culminating in an Environmental Assessment (EA) document. Drafted and executed the Public Involvement Plan, including extensive coordination with controversial historic and cultural resources.

Districtwide PD&E / ETDM Support Services, FDOT IV. Assistant Project Manager over a variety of tasks for PD&E studies and ETDM screenings, including the 400-mile FEC Amtrak High Speed Rail project from Jacksonville to Miami, a 50-mile C.R. 609 proposed corridor, including a dedicated busway, in Martin, St. Lucie and Indian River Counties, and the analysis of High Occupancy Toll (HOT) managed lanes on I-95 in Broward County.

Gratigny Parkway (S.R. 924) West Extension to Homestead Extension of Florida's Turnpike (HEFT) PD&E Study Services, MDX. Senior Project Engineer on this 4-mile PD&E study, including extensive Public Involvement, area multi-project and multi-modal coordination efforts, culminating in a Categorical Exclusion Type 2 NEPA document.

I-95 / S.R. 9 Corridor Planning Study for Managed Lanes, FDOT IV. Senior Project Engineer analyzing the feasibility of the addition of High Occupancy Toll (HOT) lanes and access points along a 64-mile section of the I-95 corridor to increase capacity and encourage multi-modal system use.

I-95 / S.R. 9 PD&E Study, FDOT IV. Senior Project Engineer for a 13.5-mile widening/reconstruction Interstate PD&E study, including Bus Rapid Transit (BRT), MPO coordination, and managed lanes.

Krome Avenue South (S.R. 997) PD&E Study, FDOT VI. Senior Project Engineer, assisting in the development of the Environmental Impact Statement (EIS) for a 10-mile widening project.

I-75 / S.R. 93 PD&E Study, FDOT VI. Senior Project Engineer for this 8.6-mile interstate PD&E study, providing QA/QC services and general project development support.

Ridge Road Extension, Pasco County. Primary author for a comprehensive Route Study for 11 miles of new roadway, with urban, rural and limited access typical sections, through environmentally sensitive areas, and presided over the Public Information Workshops.

FDOT IV Safety Reviews and Studies. As Senior Transportation Engineer, conducted a variety of safety reviews and studies including S.R. 818 (Griffin Road) at I-95 interchange, S.R. 811 (Dixie Highway) at N.E. 26th Street, and S.R. 5 (Federal Highway) between S.R. 870 (Commercial Boulevard) and Bridge # 222.



John Arrieta, PE, PTOE

Traffic and Transportation

Overview

Mr. Arrieta is a Senior Traffic Engineer, responsible for providing transportation/traffic engineering services as a Project Engineer for URS offices in south Florida area. His technical expertise include traffic forecasting, preparation and review of site traffic impact studies, signal timing and operational analysis, traffic operational improvements, and roadway signing and marking improvements.

Areas of Expertise

Traffic Engineering / Traffic Safety
Traffic Planning / PD&E
Access Management / Site Impact Studies
Neighborhood Traffic Calming /
Minor Roadway Design

Years of Experience

With URS: 5 Years
With Other Firms: 9 Years

Education

2000 / ME / Civil Engineering -
Transportation /
University of Maryland
1996 / BS / Civil Engineering /
University of Maryland

Registration/Certification

2004 / Professional Engineer/
Florida No.: 61370
2008 / Professional Traffic
Operations Engineer

Project Specific Experience

FDOT VI: Districtwide Traffic Operations Studies. Project Engineer/Traffic Engineer - tasks under this project have included the development of traffic engineering reports/studies such as intersection qualitative assessments, signal warrant analysis, left turn phase warrant analysis, access management analysis, composite studies (i.e. counts, crash analysis, travel time and delay study, queue analysis, vehicle gap measurement, conflict analysis, Level of Service analysis, pedestrian group size, spot speed study, other traffic engineering related studies and public involvement). In charge of coordinating data collection efforts, processing and analyzing field data.

FDOT IV: Districtwide Traffic Operations Studies. Project Engineer/Traffic Engineer - tasks under this project were similar to those of *FDOT VI: Districtwide Traffic Operations Studies* mentioned above.

FDOT IV: SR 9/I-95 PD&E Study, Broward & Palm Beach Counties, Florida. Project Traffic Engineer for traffic related tasks of this (13.6 miles) PD&E Study, including data collection, and data development technical reports, existing and future base conditions technical analysis, identifying interchange improvements to reduce congestion and improve safety, and access management.

FDOT VI: Krome Avenue / SR 997 South PD&E Study. Project Traffic Engineer for traffic related tasks of this (10.2 miles) PD&E Study, including data collection, and data development technical reports, existing and future base conditions technical analysis, identifying, intersection and corridor improvements to reduce congestion, and improve safety, access management, and public involvement.

FDOT V: Districtwide Design Traffic for PD&E. Served as Project Engineer for FDOT District 5 Districtwide Design Traffic for PD&E; Developed design traffic forecasts for use in PD&E studies and ESAL reports.

City of Rockville – Department of Public Works, Rockville, MD. Civil Engineer II; Civil Engineer I; Assignments Included: Monitored and enhanced multi-modal transportation operation; Reviewed/performed roadway and street design for storm drain and paving, traffic signal,

pavement marking and signing, and work zone/temporary traffic control plans; Managed and coordinated tasks for other engineers, engineer technicians, and interns; Managed several Capital Improvement Program projects for the transportation division; Worked extensively with City commissions and other citizen groups; Managed the Transportation Division data collection and inventory program; Managed the coordination and review of Transportation Impact Studies (TIS); Managed the Traffic Calming Program; Managed the Permit Parking Program; Presented development review findings to elected and appointed officials, citizens, and City staff; Represented the DPW – Transportation Division on the Development Review Committee (DRC).



James Santiago, RLA

Landscape Architecture

Overview

Mr. James Santiago has worked in South Florida since 1982. He has been largely involved in municipal, commercial, and industrial landscape architecture and irrigation design. He is experienced in the horticulture of South Florida plant materials. All of his design and construction drawings are done through the use of computers, which allow him the ability to produce a better product at any scale. He is responsible for some of the finest and most successful projects in South Florida. Additionally, Mr. Santiago has extensive roadway design experience and has successfully completed projects in Coral Springs, Plantation, and Palm Beach County as well as ongoing projects at Ft. Lauderdale Hollywood International Airport. Some prominent examples of public space design can be seen at the Fort Lauderdale Downtown Nations Bank Plaza and West Broward Regional Courthouse, as well as numerous projects for Florida Atlantic University and Florida International University.

Areas of Expertise

Landscape Architecture
Project Planning
Site Planning

Years of Experience

With URS: 3 Years
With Other Firms: 23 Years

Education

BS / Landscape Architecture /
1978

Registration / Certification

1982 / Registered Landscape
Architect / FL

Project Specific Experience

Landscape Architect, Broward County, West Regional Courthouse Project Administration, 1995, \$95,000: Provided landscape, irrigation, water use, and tree removal permitting services for a new facility in Broward County.

Landscape Architect, Young Circle ArtsPark, City of Hollywood, Florida: Provided landscape and irrigation design and permitting services (Wateruse and irrigation) for the 12-acre park in Downtown Hollywood. Project elements include plazas, walkways, water features, performance stage, gazebo, playground, gardens, sculpture garden, seating, lighting and exterior walls of cultural center.

Landscape Architect, Trail Glades Range, Miami-Dade County Park and Recreation Department, Miami, Florida, 2008: Conducted preliminary planning for project to renovate and upgrade the existing County-owned 600-acre gun range located in western Miami-Dade County on the edge of the Everglades National Park.

Landscape Architect, Florida Atlantic University Heritage Park, Boca Raton, Florida, 2005: Heritage Park Towers at the Boca Raton campus of FAU is home to approximately 600 students including students in the Living Learning Communities (LLC) program. The work included project planning, site planning, and landscaping for the infrastructure such as water systems, sewer systems, drainage, and roadways.

Landscape Architect, City of Tamarac Aquatic Facility, Tamarac, Florida: Provided Landscape architecture for this facility which includes a 25 yard x 25 meter swimming pool with zero depth entry and slide, children's water playground (Sprayground), 3,000 square foot fitness room, men and women's locker rooms, picnic tables, chairs, large pavilion and concession stand.

Landscape Architect, Delevoe Multipurpose Center, Broward County Parks and Recreation, Fort Lauderdale, Florida: Provided landscape design and irrigation services to local park with meeting facilities in Ft. Lauderdale.

Landscape Architect, Florida International University Diaz-Balart Law Center, 2007 - Miami, Florida: New 152,000 sq. ft. Law School on the main campus of Florida International University consisting of classrooms, lecture halls, mock courtrooms and judge's chambers along with associated administrative space. The type of work provided included planning, landscaping and irrigation.

Landscape Architect, Collier County Railhead Scrub Preserve Land Management Plan, 2005, Naples, Florida: Led the development of a conceptual plan for sites identified by the County for conservation purposes as part of the preparation of a land management plan for the Railhead Scrub Preserve for preservation of habitat.

Landscape Architect, Edgewood Park, Broward County Aviation Department, 1997- Fort Lauderdale, Florida: Provided Wateruse and tree removal permitting, landscape and irrigation for a new 11-acre passive recreation park.

Landscape Architect, City of Fort Lauderdale Commercial Airport Observation Area, Fort Lauderdale, Florida: Services provided included siteplan, design, landscape and irrigation.

Landscape Architect, Midport Parking Garage, 1997, Port Everglades Authority: Provided landscape, irrigation, water use, and tree removal permitting services for a new multi-level facility at Port Everglades.

Landscape Architect, Remote Parking Facility, Fort Lauderdale-Hollywood International Airport, 1997, Broward County Aviation Department: A 2400 car parking lot with 1800 existing trees. Services provided included landscape, irrigation, water use and tree removal permitting.

Landscape Architect, Broward County, West Regional Courthouse Project Administration, 2002: Provided landscape, irrigation, water use, and tree removal permitting services for a new facility in Broward County.

Landscape Architect, Barry University, School of Medicine and Phase 2 Housing, 2004, Miami, Florida: Design services consisted of project planning, site planning, landscape architecture for the infrastructure such as water systems, sewer systems, drainage, and roadways.

Landscape Architect, Broward Community College, South Regional Library, 2002, Pembroke Pines, Florida: As project manager and the prime professional on this project initiated and directed the successful completion of the preparation of construction contract documents and provided the construction contract administration for design services for this joint-use library between BCC and Broward County.



Edgar Montañez, EI

Senior Electrical / Traffic Engineer

Overview

Mr. Montañez is a Senior Electrical/Civil/Traffic Engineer, responsible to manage and design traffic engineering and highway design services including roadway, lighting, signalization system design, communications, intelligent transportation systems, power distribution and electrical design facilities, roadside and overhead signing and pavement marking projects.

Project Experience

SR 826/SR 836 Palmetto Interchange - Miami, Florida (2005–Present). Project Manager responsible for developing MOT Lighting plans, ITS master plan and RFP package for Signing/Signalization/Lighting and ITS components. **FDOT District 6 Project Manager: Ali Toghiani**

SR 823/NW 57th Ave/W 4th St - Miami, Florida (2005–2008). Project Manager responsible for developing Signalization plans from Okeechobee Road to W 18th Street. **FDOT District 6 Project Manager: Daniel Iglesias**

I-595 Corridor Roadway Improvement program – Fort Lauderdale, Florida (2007–Present). Project Manager responsible for reviewing Lighting, Signalization, Signing, ITS plans and technical documents for the design-built team on behalf of the Department. **FDOT District 4 Project Manager: Joe Borello**

FDOT Enhancement/Lap Projects for the City of Wilton Manors, Florida (2008–Present). Project Manager responsible for developing Lighting and Roadway plans including bidding and CEI services on behalf of the City for SR 811/SR 845 and NW 15th Avenue projects. **FDOT District 4 Project Manager: Barbara Handrahan**

Site Plans review and miscellaneous engineering services for the City of Wilton Manors – City of Wilton Manors, Florida (2006–Present). Project Manager responsible for reviewing electrical, lighting, traffic and civil plans for new site developments and perform related engineering tasks as an extension of the Engineering department on behalf of the City. **City Project Manager: David Archacki**

Trail Glades Shooting Range Park – Miami, Florida (2008–Present). Project Manager responsible for developing electrical/power distribution and lighting plans for several design phase packages for this park. **Miami-Dade County Project Manager: Jose Gonzalez**

Collier County Landfill – Naples, Florida (2007–2008). Project Manager responsible for developing electrical/power distribution and lighting plans for the landfill center. **Collier County Project Manager: Dayne Atkinson**

Areas of Expertise

Highway and Traffic Design Engineering
Power Distribution and Electrical Design Facilities

Years of Experience

With URS: 9 Year
With Other Firms: 13Years

Education

MS / Automated Control Systems / University of Florida
BS / Electrical Engineering / 1984 / Florida Atlantic University



Design Build RFP and Criteria Package for I-95 Mainline Widening and Two interchanges, St. Lucie, Florida (2008–Present). Project Manager responsible for developing a lighting justification report for the mainline, photometric analysis of existing lighting at the widening areas and utility coordination for the RFP package, **FDOT District 4 Project Manager: Bing Wang**

Multi Modal Center (MIC) Interchange, Miami, Florida (2001–2008). Project Manager responsible for developing Signalization, Communication, Lighting, Wireless/Solar Power Taxi Signal System, Electrical and Power distribution, Signing and Marking plans for Central Blvd and Le Jeune Road interchange. **FDOT District 6 Project Manager: Gary Donn**

Sombrero Beach Road - Marathon, Florida (2006–2007). Project Manager responsible for developing Lighting and Signalization plans. **FDOT District 6 Project Manager: David Mendez**

Biscayne Landing Development– North Miami, Florida (2007–2008). Project Manager responsible for developing Lighting, Signalization, Signing, Marking and Roadway plans. Permit coordination with FDOT/City and County. **Project Manager: Andrea Mathieu**

Borland Center Development, Palm Beach Gardens, Florida (2005–2006). Project Manager responsible for developing Signalization plans. Permit coordination with FDOT/City and County. **City Project Manager: Judy Dye**



Vivek (Vik) Kamath, PE

Environmental Engineering / Permitting

Areas of Expertise

State and Federal Regulations
Solid and Hazardous Waste
Environmental Assessment
Remediation
Brownfields Program
Threat and Vulnerability
Assessments using HLS-CAM

Years of Experience

With URS: 9 Years
With Other Firms: 23 Years

Education

MS/1980/Thermal &
Environmental
Engineering/Southern Illinois
University, Carbondale
BS/1976/Chemical
Engineering/Indian Institute of
Technology, Bombay, India

Registration/Certification

Professional Engineer / Florida /
No. 42618 / 1990
Homeland Security Comprehensive
Assessment Model (HLS-CAM)
Certification/February 2005
Certified FEMA Community
Emergency Response Team
(CERT) Member/2003
OSHA 29 CFR 1926
Field/Construction Safety Training,
URS Corporation Cert. No. 03-
315/2006
8-hour Bio-readiness Training,
Center for Biological Defense,
University of South Florida/2003

Overview

Mr. Kamath is a senior project engineer with over 30 years of experience in the environmental engineering and permitting field. Prior to working for URS Mr. Kamath worked as the Program Administrator for the Florida Department of Environmental Protection (FDEP) office in West Palm Beach. Projects under his direction include solid waste, composting facilities, waste-to-energy plants, landfills, hazardous waste remediation, petroleum remediation projects, solid waste management and wastewater treatment and disposal. Having worked for the State of Florida in various capacities for almost 20 years initially as an engineer and lastly an administrator, Mr. Kamath is very familiar with state and federal permitting issues especially as they relate to management of waste and wastewater facilities.

Project Specific Experience

Senior Engineer, Project Management and Oversight Services for Collier County, Florida. (2006- present): This is a new contract and as part of one of the initial assignments currently providing services for Solid Waste Management Projects including preparing technical specifications for Landfill Mining and Reclamation Project.

Senior Project Engineer, Pratt & Whitney/United Technologies Corporation, Palm Beach County, Florida (2007-present): Provide technical and regulatory to design and install a pH control system for pre-treatment of industrial wastewater to comply with Palm Beach County's pre-treatment requirements. This project involves extensive regulatory oversight and coordination with the Palm Beach County Water Utilities Department.

Task Manager/Senior Engineer, JEA, Jacksonville, Florida (2007-2008): Provide technical assistance to JEA's Corporate Security and Emergency Preparedness Department (CSE) for planning and support of emergency support staff for water and wastewater facilities deemed critical to the infrastructure of the Consolidated City of Jacksonville/Duval County. This task included identifying and ranking vulnerabilities for critical water and wastewater facilities identified by JEA, and defining appropriate strategies for vulnerability mitigation and target hardening. The vulnerability assessments and mitigation strategies are being developed using the Homeland Security Comprehensive Assessment Model (HLS-CAM).

Environmental Engineer, Greenhouse Gas Emissions Baseline Inventory, City of Doral, Florida, (Jan. 2009 – May 2009): Provide services to establish baseline inventory of Greenhouse Gas Emissions for the year 2008. The inventory was developed using the ICLEI protocol for local governments. Based on the findings of GHG emissions inventory, URS recommended several interim and long-term strategies to reduce GHG emissions and inefficiencies and energy consumption.

Senior Engineer, South Dade Landfill/Miami-Dade Water and Sewer Authority (2007): Provide technical, permitting and regulatory support for a new landfill gas pipeline to transport landfill gas from the South Dade Landfill to Miami-Dade County's South District Wastewater Treatment Plant. Consulting services to be provided include preliminary site investigation, permitting, assistance in preparing contract documents, developing design and technical specifications.

Senior Engineer, former Ojus Landfill, Miami Dade County (2006-present). Providing in-house technical and regulatory support for design and construction of a landfill gas collection system for buildings and structures that are being constructed on top of the former solid waste landfill. The landfill was closed in the 1970's and is now being redeveloped in three(3) phases for beneficial re-use as a community park.

Senior Engineer, North Dade Landfill, Miami Dade County (2006-present). Providing in-house technical and regulatory support for repairing and re-installing the active landfill gas collection system for the East Cell. The landfill gas extraction system at the landfill consists of a network of approximately 59 vertical gas recovery wells that are connected to a central flare. This system is permitted by the FDEP and USEPA.

Senior Regulatory/Permitting Engineer, City of Lake Worth South Landfill (2006- 2007). Provide regulatory and permitting assistance to the City of Lake Worth, as a sub-contractor to Environmental Control Systems, Inc, to install and operate an aerobic landfill treatment system prior to redevelopment of the former landfill site for beneficial reuse.

Administrator, Florida Department of Environmental Protection, Southeast District Office, West Palm Beach, Florida (1992-2003): Managed regional office staff of 30 environmental professionals in the area of solid waste, hazardous waste, petroleum storage tanks and waste cleanup. Permitting, compliance and enforcement activities related to waste-to-energy plants, solid waste landfills (old and existing), implementing groundwater monitoring plans, resource recovery plants, construction and demolition landfills, hazardous waste facilities, and assessment and remediation of other waste management facilities in accordance with Florida Statutes and regulations. Also responsible for regional coordination of CERCLA/Superfund sites located in the South Florida area.

Senior Project Engineer, Pratt & Whitney/United Technologies Corporation, Palm Beach County, Florida (2004-present): Provide technical and regulatory assistance for permitting and remediation projects under the Resource Conservation and Recovery Act (RCRA). Activities include overseeing site assessment and remediation activities at several contaminated areas on the property. This project involves extensive regulatory oversight and coordination with the Florida Department of Environmental Protection (FDEP).



Carlos F. García, PG

Environmental / Contamination

Areas of Expertise

Environmental Management
Systems Assessments
Groundwater and Surface Water
Quality Investigations
Remediation Management
Petroleum Hydrocarbon &
Hazardous Waste Site
Contamination Assessments
Environmental Impact Evaluations
Phase I & II Environmental Site
Assessments
Biological Studies
Environmental Permitting
Landfill Management
Geologic Evaluations
Expert Witness Testimony

Years of Experience

With URS: 30 Years
With Other Firms: 1 Years

Education

1979/MST/Biological
Sciences/Florida Atlantic
University
1980/BS/Geology/Florida Atlantic
University
1976/Licenciado en
Educación/Mención Ciencias
Biológicas y Química/ Universidad
Católica Andrés Bello, Caracas,
Venezuela

Registration/Certification

Professional Geologist/FL #853
1997/ISO 14000 Lead Auditor
Course/International Quality and
Environmental Services
(IQuES)/Atlanta, Georgia

Overview

Mr. Garcia is a consultant for environmental programs, including management systems preparation and audits; Class V stormwater injection wells, soil and groundwater petroleum hydrocarbon contamination assessments, waste management (water, wastewater, solid and hazardous wastes), contamination assessments and remedial evaluations, expert witness testimony on groundwater contamination; sanitary and industrial landfill operations and management; industrial and commercial real estate assessments, environmental impacts and permitting issues; natural resources evaluations, geologic investigations and hydrogeologic assessments for phosphate and glass sand mines; chemical and power plants and hazardous waste site investigations; water resources investigations, data management and geographic information systems; in the southeastern United States, Canada, Spain, Caribbean, Central and South America. Joined Dames & Moore (now URS Corporation) in 1981.

Project Specific Experience

Environmental Impact Assessment and Field Investigation of the hydrogeologic characteristics of a closed landfill located in Jacksonville, Florida.

Development of Regional Impact Permit Application preparation for proposed phosphate mine and the expansion of a gypsum disposal field near Tampa Bay.

Principal Investigator for dredge and fill permit applications involving reestablishment of wetlands in central and southern Florida.

Project Director for the Methane Abatement, Soil and Groundwater Remediation Activities for the USPS Blue Lagoon Post Office in Miami-Dade County, Florida.

Environmental Impact Assessment of the proposed Bajo Frio hydroelectric project in Panama, Central America.

Compliance Assessment with World Bank Equator Principles: Cubujuqui Hydroelectric Project in Costa Rica, Central America

Compliance Assessment with World Bank Equator Principles: Powdered Coal Conversion of the Bahia Las Minas power plant in Panama.

Compliance Assessment with World Bank Equator Principles: Petroterminal de Panama trans-isthmus pipeline and storage terminal improvements in Panama.

Compliance Assessment with World Bank Equator Principles, IFC Guidelines and Work Commission on Dams: Bajo de Mina and Baitun hydroelectric projects in Panama.

Environmental Impact Assessment and Mitigation Plans of roadway widening improvements on adjoining mangrove forests in Palm Beach County, Florida.

Principal Investigator in the biological integrity monitoring of streams and wetlands adjoining phosphate mining in central Florida.

Principal Investigator for the biological integrity monitoring of streams and estuaries, adjoining a gypsum disposal field on Tampa Bay shores. Principal Investigator in the vegetation mapping and study of revegetation succession patterns of a phosphate mining waste slime pit in central Florida.

Project Manager: Class V Stormwater injection well reasonable assurance investigation at the Bay Shore Golf Course, for the City of Miami Beach, in Miami-Dade County.

Project Manager: Class V Stormwater injection well reasonable assurance investigation for the Florida Department of Transportation at eight locations throughout Miami-Dade County and two locations in Monroe County.

Project Manager: Class V Stormwater injection well reasonable assurance investigation for the City of Miami in Miami-Dade County.

Project Manager: Video inspection of the NE stormwater system for identification of unauthorized hookups, for Miami-Dade Aviation Department.

Data Management for groundwater contamination remedial actions at a landfill in Gainesville, Florida.

Project Manager for NEPA environmental assessment for a proposed private correctional center in Miami-Dade County, Florida.

Project Manager for environmental audits for real estate transactions, to determine the presence and extent of potential environmental liabilities prior to acquisition of properties. Conducted audits on numerous residential, commercial and industrial sites throughout Florida.

Hydrogeologic Water Quality Investigations

Water Supply Reconditioning of the deep Floridan Aquifer reverse osmosis supply well for Ocean Reef in Miami-Dade County.

Hydrogeologic evaluation of groundwater supplies in a 54 square mile central Florida tract, selected as a potential public water source for Sarasota County in the year 2020.



Babu Srinivas Madabhushi, Ph.D.

Treatment Technologies

Overview

Mr. Madabhushi has over 16 years of experience in conducting and managing environmental engineering related projects. His technical expertise is in the areas of environmental engineering, soil and groundwater remediation, bioremediation, treatment technologies, remedial investigation and feasibility studies. Mr. Madabhushi's responsibilities include conducting contamination assessments, recommendation of appropriate treatment technologies, assisting in remedial action plan and remedial design preparation, and overseeing operation and maintenance activities.

Areas of Expertise

Water / wastewater treatment /
Soil and groundwater remediation
Source water protection /
Environmental impact assessment
Water Conservation

Years of Experience

With URS: 12 Years
With Other Firms: 4 Years

Education

Ph.D. / Hazardous Waste
Management / West Virginia
University
M.S. / Wastewater Treatment
Indian Institute of Technology /
Madras, India)
B.S. / Civil Engineering /
Kakatiya University, India

Project Specific Experience

E04-DERM-01: Environmental Cleanup, Compliance and Related Work, Miami-Dade County, Florida : Managed projects under this three year contract including providing environmental assessment and remediation at State reimbursable UST/AST sites within the county. Managed projects including non-hazardous waste site investigations, preparation of Contamination Assessment Reports, Natural Attenuation and alternative treatment strategies, implementations, construction drawings preparations, and operation & maintenance of oil and groundwater remediation systems.

CERCLA Superfund Program (FAA William J. Hughes Technical Center): Served as a Project Engineer for the FAA Technical Center CERCLA Superfund site (approximately 5,000 acres) which has 15 operable units covering 27 areas of concern. The environmental site activities include site assessment, remedial design, remedial system installation, and operation and maintenance of treatment systems. The subsurface petroleum contamination at Area D is being remediated with a combination of groundwater pump and treat and soil vapor extraction system to treat BTEX in the shallow aquifer. The remedial operations at Area 20A and Area 29 remediating the soil and groundwater contaminated with PCBs and VOCs (tetrachloroethene). The operations at Area B included the construction free product recovery and remediation of contaminants that include VOCs and mercury.

Wal-Mart Super Store Site Assessment and Cleanup, Inverness, Florida: Environmental Engineer for the assessment and remedial approach related to the redevelopment of a Wal-Mart Super Store. Previous operations at the site resulted in the release of chlorinated solvents and subsequent downward migration of the chlorinated solvents to a depth of 450-ft below land surface. The highest concentration was detected at a depth of 300-ft. A groundwater solute transport model was developed to provide a decision support tool to determine appropriate remediation strategy. Model included 9 hydraulic layers and was run in 10

year increments to illustrate COC degradation properties over a 100 year period. Cost: \$2.4 Million

Anodyne Superfund Facility, Miami, FL: Served as Site Manager for this former metal plating CERCLA Superfund site, which had heavy metal contamination in the groundwater. Mr. Madabhushi assisted in the remedial investigation and the feasibility studies and development of remedial activities. The remedial action included excavation of soils and treating the surficial groundwater. After successful remediation, this facility was de-listed from the National Priority List (NPL).

Miami International Airport, Former Aerodex Facility, Miami, Florida: Served as Project Engineer and assisted in hazardous waste assessment, remedial action, interim remedial design and source removal. Site was initially part of the Formerly Used Defense Sites (FUDS) program and required extensive regulatory interaction to move forward with remedial efforts. Former operations resulted in the release of chlorinated solvents and petroleum hydrocarbons. Vinyl chloride concentrations exceeded 40,000 ppb in the groundwater and posed a significant threat to the integrity of the Miami Springs well field.



Keith Stannard

Senior Environmental Consultant

Areas of Expertise

Resolving Environmental Regulatory Issues, Marine and Terrestrial Habitat Assessments and Impact Analyses, Natural Community Mapping, Wetland Delineations/Functional Assessments, Protected Floral and Faunal Species Assessments, Offshore and Nearshore Benthic Resource Assessments, Essential Fish Habitat Assessments, Section 7 Consultation, Protected Species Permitting and Relocations, Federal/State/Local Agency Environmental Resource Permitting, Secondary and Cumulative Impact Analyses, Marine & Freshwater Wetland Mitigation Planning and Design, Mitigation Construction Oversight and Monitoring, Species Conservation Measures, Environmental Permit Compliance, Erosion Control, NEPA Studies (CATEX, EA, EIS, PD&E, etc.), Construction Feasibility Studies, Protected Land Management Plans, Design Plan Reviews, Material Recycling/Solid Waste Facility Permitting, Water Quality Assessments and Contamination Assessments

Years of Experience

With URS: 10 Years

With Other Firms: 7 Years

Education

Graduate Studies 1994-1996, Coastal Zone Mgmt./Marine Biology, NSU Oceanographic Center
B.S. Degree 1991, Biological Sciences, SUNY at Stony Brook

Overview

Mr. Stannard has over 17 years of experience in conducting and managing professional ecological investigations required for environmental assessment of a wide variety of public and private sector projects including linear facilities (roadways, railways, pipelines), site development (industrial, residential, mixed-use) and special-purpose projects (offshore facilities, marinas, dams, maintenance dredging, basin studies, etc.). He has an in-depth knowledge of federal, state and local environmental regulatory criteria and associated agency procedures in relation to NEPA and environmental resource permitting. He also has extensive experience with marine and terrestrial wetland ecology; wetland mitigation; threatened and endangered species conservation protocols and Section 7 consultation.

Project Specific Experience

Lead Biologist, Cape Sable Canals Dam Restoration Project, Everglades National Park, National Park Service (2008-Present):

Lead biologist responsible for preparation of an Environmental Assessment (EA) for the restoration of two breached dams in Cape Sable, ENP. Tasks include NPS/ENP internal scoping, public and agency scoping/consultation, data collection, data analysis, preparation of the EA and FONSI.

Project Manager, Tamiami Trail Vista Clearing Mitigation Feasibility Study, FDOT, District VI and Everglades National Park/National Park Service (2008): Conducted a mitigation feasibility analysis to determine the potential benefit of utilizing the NPS-planned 10-mile vista clearing project as mitigation to compensate for a portion of the proposed freshwater wetland impacts associated with the FDOT's Krome Avenue widening project.

Project Manager, Compressor Station Contamination Assessments, Phase VIII Expansion, Florida Gas Transmission (2008-Present):

Project Manager responsible to conduct Phase I contamination assessments and title searches for the proposed expansion of four existing compressor stations (CS 11-14) and one new compressor station (CS 29) associated with the Phase VIII Expansion program.

Project Manager, Hydrogeologic Study-Archbold Biological Station, Greenfield #3 Lateral, Phase VIII Expansion, Florida Gas Transmission (2008-Present):

Project Manager responsible to conduct a hydrogeologic investigation to model potential impacts to the flow of groundwater between Lake Annie (Archbold Biological Station) and Lake Placid as a result of constructing a new pipeline lateral between the two lakes just north of SR 70 in the Lake Wales Ridge area.

Project Manager, Southwest 344th Street/Palm Drive Park and Ride Facility, Florida City, Miami-Dade Transit (2008-Present): Project Manager responsible for preparation of an Environmental Assessment (EA) for the development of a Park and Ride facility in Florida City. Tasks include project scoping, public involvement, data collection, alternatives analysis, preparation of the EA and FONSI.

Project Manager, Northwest 114th Avenue Improvements (Tract 34), City of Doral Public Works (2008): Applied for and obtained Federal, State and County environmental resource permits for the construction NW 114th Avenue through a 10-acre freshwater wetland. Tasks included wetland delineations, UMAM functional assessments, wildlife surveys, agency coordination, contamination reviews, and wetland mitigation planning.

Project Manager, Passive Recreational Areas Feasibility Study (2008): Responsible for conducting an Environmental Feasibility Review to evaluate the potential “red flags” or fatal flaws associated with the planned use of two large tract wetland mitigation areas as potential passive recreational parks for the City of Doral.

Project Manager, 6-inch Miami Beach Lateral Biscayne Bay, Miami-Dade County, Florida Gas Transmission Company (2006-Present): Project Manager responsible for environmental-related tasks associated with the placement of concrete mats on 10 exposed segments of existing submerged pipe (segment length varies up to 600 linear feet) located in the Biscayne Bay Aquatic Preserve which is also classified as an Outstanding Florida Water. Tasks include coordinating and conducting an intensive 14-day underwater benthic resources/seagrasses survey using SCUBA and surface support personnel to identify, assess and map (in GIS and AutoCad) marine benthic resources within 65 feet perpendicular to each exposed segment due to the size of the vessel laying the concrete pads and potential impact from scour. Results of the survey will be used to apply for federal, state and local agency permits and provide suitable mitigation for proposed impacts due to construction activities. Additional tasks include regulatory agency coordination (FDEP, USACE, NMFS and DERM), environmental resource permitting, resolving sovereign submerged lands issues, preparation of Essential Fish Habitat Assessment and a marine species Biological Assessment, development of a mitigation plan including restoration of prop scars within FDEP’s Biscayne Bay Aquatic Preserve, coordination with mitigation contractors and assisting with bid documents.

Project Manager, District-wide Misc. Permitting Services Consultant (Contracts C-7724 and C-8I41), FDOT, District VI, \$3 million, (2001-Present): URS was awarded two \$1.5 million contracts to manage and direct environmental permitting activities and other environmental-related studies for various large and small-scale FDOT roadway improvement, new roadway, bridge replacement/improvement, boat ramp restoration and tunnel projects throughout Miami-Dade and Monroe Counties in Florida.



I. M. “Chip” Day IV, M.S.

Environmental Engineering / Permitting

Areas of Expertise

Wetland Ecology, Everglades Landscape Processes, Transportation Studies and Environmental Planning and NEPA Studies, Environmental Permitting, Wetland Delineation, Threatened and Endangered Species Surveys, Seagrass Ecology, Marine and Estuarine Ecology, Habitat Mapping and Photo-Interpretation, Biogeochemical Analysis, Experimental Design

Years of Experience

With URS: 4 Years

With Other Firms: 7 Years

Education

MBA Candidate/ 2011/Florida

Atlantic University

MS/2006/ Florida Atlantic

University

BS/Geography (Urban/ Regional/ Environmental Planning)/1999/

State University of New

York/College at Oneonta

Registration/Certification

Dive Safety Officer/PADI Rescue Diver/Advanced OW/NITROX

certifications/First Aid/CPR/AED

HAZWOPER/FDEP Wetland

Delineation/FDOT Project

Development and Environmental

Training Manual Training/FAEP

Wetland Delineation

Training/Gopher Tortoise URTD

Testing Permittee/FWC Manatee

Observer/FWMD Certified

Airboat Driver/AutoCAD,

Certified at CAD Centers of

Florida

Overview

As a scientist and planner for more than eight years, Mr. Day has extensive, along with fine focused, experience with wetland and ecological studies. He has worked on a wide variety of scientific projects and grants including environmental permitting, monitoring and oversight, aerial vegetation surveys (terrestrial and aquatic), hydrologic studies, submerged aquatic vegetation (SAV), and essential fish habitat (EFH) surveys, as well as vegetative population dynamics and biogeographical analysis. As a planner, he has worked in both public and private sectors on a wide variety of transportation, commercial/residential developments, and public works projects. As an environmental scientist, his consultation has utilized on a variety environmental studies and surveys, project development and environmental studies (PD&E), and permitted projects. He has conducted biological and wetland assessments, benthic assessments which include reef and seagrass surveys and monitoring, mitigation monitoring, mitigation design, and permitting through various governmental agencies. Other associated capabilities include, but are not limited to, Geographic Information Systems (GIS)/ Global Positioning System (GPS) interface and mapping, Section 4(f) determinations, experimental design and protocol, technical writing, Quality Control of deliverables, and a proven marketing and presentation background.

Project Specific Experience

SR 968 / SW 1st Street Bridge over the Miami River from SW 5th Avenue to SW 2nd Avenue; Florida Department of Transportation, District VI, Miami-Dade County, FL. Mr. Day was the Environmental Task Manager on this PD&E Study which incorporates various bridge and tunnel designs at the Miami River. Mr. Day is responsible for all fieldwork, documentation preparation (AQTM, CSER, ESBA, and WER), budget and task tracking along with coordination efforts with FDOT District VI.

District Wide Drainage and Environmental Permitting Assistance; Florida Department of Transportation, District IV, Ft. Lauderdale, FL: Mr. Day is the project manager for this long term project, tasked with a high volume of coordination efforts and environmental/drainage permitting assistance. Mr. Day speaks on behalf of FDOT District IV during all regulatory permitting coordination meetings. Mr. Day acts as the liaison between FDOT District IV and a variety of design firms. In addition, Mr. Day oversees all graphic production and coordination efforts which are required of this project.

C-110 Canal Restoration, Florida Department of Transportation, District VI, Miami- Dade County, FL: Mr. Day acted as deputy project manager for this very exciting restoration project in the Southern Glades Wildlife and Environmental Area as a component of the Comprehensive

Everglades Restoration Plan (CERP). Mr. Day was tasked with conducting field assessments, performing engineering oversight, and mitigation design pertaining to the backfilling of the existing C-110 Canal which is currently a hydrologic barrier for the region. Mitigation efforts have been coordinated and designed as a cost saving tool for the Florida Department of Transportation in an effort to defray costs associated with roadway development. As such, the project benefits are multifold with: cost savings and mitigation options for the client (FDOT) and a highly visible and beneficial value to the South Florida Water Management District in their effort to restore the ecological functions of the Everglades and a net gain in endangered snail kite and wood stork habitat for the U.S. Fish and Wildlife Service balance sheets.

Port of Miami Tunnel Reevaluation and Benthic Survey, Florida Department of Transportation, District VI, Miami-Dade County, FL: In 2008, Mr. Day was tasked to manage the PD&E reevaluation in accordance with the National Environmental Policy Act (NEPA) process relating to the proposed Port of Miami Tunnel Project. Mr. Day coordinated with the engineering firm and assessed the design changes since the original PD&E study of the project. In addition, Mr. Day reassessed and coordinated the environmental permit status, environmental findings such as impacts to natural resources, threatened and endangered species, contamination, noise, air, and cultural resources. Mr. Day submitted the reevaluation document and submitted to Federal Highway Administration (FHWA) for review and ultimate acceptance.

During the seagrass season of 2009, Mr. Day managed field efforts and the writing of the benthic resources report. This effort included the field mobilization, dive planning, species identification, species richness, coverage, GPS documentation and the reporting of these findings in for use during environmental permitting.

Boot Key Bridge Deconstruction Permitting, Florida Department of Transportation, District VI, Monroe County, FL: Mr. Day was tasked to manage field and research efforts pertaining to the benthic resources assessment, including seagrass survey as a component of environmental resource permitting. In addition, Mr. Day dove reconnaissance dives for the proposed artificial reef with Monroe County. Lastly, Mr. Day coordinated and obtained the environmental permitting efforts through the USCG, USACE, and SFWMD.

Florida Department of Transportation, Keys Boat Ramps Permitting, Florida Department of Transportation, District VI, Monroe, FL: Mr. Day took the lead with environmental permitting coordination and execution for the Spanish Harbor Boat Ramp facility and Little Duck Key Boat Ramp facility. Tasks included coordination efforts between FDOT, SFWMD, USACE, and NOAA/NMFS and the Florida Keys National Marine Sanctuary (FKNMS). Mr. Day conducted both benthic marine and wetland surveys of the area determining the absence/presence of corals and mangrove protection respectively. Mr. Day assisted in the coordination of the FDOT contracted mitigation team and the FKNMS to relocated.



Luis E. Smith, CIH, CIEC, FLAC

*Certified Industrial Hygienist, Certified Indoor Environmental Consultant
Florida Licensed Asbestos Consultant, Florida Licensed Mold Assessor*

Overview

Luis Smith is a Certified Industrial Hygienist with over 19 years of industrial hygiene experience. He began his career at URS in July, 2007 and is proficient in the comprehensive practice of industrial hygiene including: Indoor air quality (IAQ), radon measurement, lead-based paint, asbestos sampling and building surveys, worker exposure assessment to various chemical hazards, noise surveys, ventilation system testing and evaluation, radiation surveys, etc. Mr. Smith's specializes in the IAQ practice including IAQ diagnostics, HVAC and building envelope evaluations, design and management of microbiological remediation projects, air sampling for bioaerosols, and preparation of IAQ management programs.

Areas of Expertise

Industrial Hygiene
Environmental Health & Safety
Indoor Air Quality
Chinese Drywall Investigations
Mold Investigations & Remediation
Asbestos Sampling & Surveys
Radon Sampling and Mitigation
Expert Witness Services

Years of Experience

With URS: 4.5 Years
With Other Firms: 18 Years

Education

Bachelor of Science,
Environmental Science, University
of Massachusetts at Amherst, 1988

Registration/Certification

Certified Industrial Hygienist #8075,
American Board of Industrial
Hygiene, 2000 to 2012

Florida Licensed Asbestos
Consultant #AX0000053, Florida
DBPR, 2003 to 2012

Florida Licensed Mold Assessor
#MRSA2144, 2012

Certified Indoor Environmental
Consultant, American Council for
Accredited Certification, 2012

Radon Measurement Specialist
#R1481, Florida Dept. of Health,
1992 to 2012

Hazardous Waste Operations
(HAZWOPER) 40-hr Supervisor
1993 to 2012

Project Specific Experience

IAQ, Asbestos, Lead, & Radon Projects

Project Manager, Private Engineering Firm, Broward & Palm Beach Counties, FL: Served as Project Manager and Florida licensed Asbestos Consultant during inspection of approximately 50 bridges located throughout Broward and Palm Beach Counties. Reviewed FDOT bridge inspection files as well as as-built drawings for each bridge to assist with development of asbestos sampling plans, directed asbestos inspection teams to conduct field assessments, reviewed and signed off on report deliverables for each bridge.

Project Manager, Private Office Building, Tampa, FL.

Provided project oversight and third party consulting services during a sewage backflow that affected the ground floor of a large high-rise office building/hotel. Advised client regarding proper remediation methods and recommended appropriate testing and analytical protocols to be followed for clearance purposes.

Project Manager, Private Hospital Weston, FL.

Performed an investigation for a suspected outbreak of Legionellosis among hospital patients. Comprehensive inspection and testing of potential *Legionella* sources was performed in accordance with guidelines from the American Public Health Association and OSHA.

Project Manager, Private Office Building, Sunrise, FL.

Conducted a comprehensive IAQ investigation in a luxury office building that had received several health complaints from tenants. Conducted occupant interviews and performed a comprehensive inspection of the building and HVAC system. The findings of the initial investigation indicated that that the carbon dioxide concentrations exceeded industry

guidelines. As a result, a follow up mechanical engineering study was performed to assess the ventilation rates supplied to each air handler unit.

Project Manager, Private Race Track – Miami, FL: Provided comprehensive consulting services involving asbestos, mold, and lead-based paint at race track facility scheduled for major renovation. Performed comprehensive inspections and developed specifications for bidding purposes. Provided project management throughout the abatement project and performed testing and inspection services following completion of work

Project Manager, Private Hotel – Bal Harbor, FL: Provided project management of environmental hazards during demolition of two high rise hotel structures including comprehensive pre-demolition asbestos survey, asbestos abatement specifications, and oversight of asbestos abatement and demolition activities. Served as liaison for local regulatory officials and provided technical guidance for unusual work conditions. Also provided consulting and testing services before, during, and after building implosion including testing ambient air quality and indoor air quality parameters in the surrounding vicinity.

Project Manager, Palm Beach County Schools: Served as the project manager for various mold remediation projects involving building envelope deficiencies. Diagnostic studies and oversight of contractor activities was performed.

Project Manager, Private Real Estate Investor – Atlanta, Georgia: Directed radon testing project and managed the installation of radon mitigation systems in various apartment units. Prepared specification describing the mitigation systems installation requirements and provided periodic oversight of installation work to document compliance with specifications.

Health & Safety Projects

Project Manager, Private Chemical Packaging Company – Miami FL: Conducted a comprehensive health and safety audit of operations involving receiving, packaging, and distribution of chlorine products. Reviewed health and safety records and evaluated existing health and safety programs. Conducted worker exposure monitoring and documented work practices for various jobs including use of personal protective equipment. Provided recommendations to improve health and safety compliance and reduce work exposures.

Industrial Hygiene Projects

Project Manager, Private Waste Management Firm – Fort Lauderdale, FL: Conducted a worker exposure study to assess the presence of volatile chemicals generated during incineration of solid wastes mixed with narcotics and medical wastes.



Pavel Santiago Terselich, MS

Environmental Scientist

Areas of Expertise:

- Installation of Soil Borings and Groundwater Monitoring Wells
- Water Quality Data Logging and Soil Screening using Various Field Meters
- Collection of Soil and Groundwater Samples for Chemical Analysis
- Oversight of Contaminated Source Removal Excavations and Backfilling
- Oil and Free Phase Product Recovery using Oil Booms, Passive Recovery, and Vacuum Truck Skimming
- Groundwater Treatment Systems by Air Sparging, Stripping, and Carbon Filtering
- Hazardous Waste Clean-up Operations
- Phase I & II Environmental Site Assessment and Soil and Groundwater Contamination Reports
- Natural Attenuation Monitoring Plans and Reports
- Remedial Action and Source Removal Reports
- Natural Background Studies and Environmental Impact Assessments

Office Location

Miami, Florida

Years of Experience

With URS: 7 Years

With Other Firms: 10 Years

Education

MS, Environmental Science, 2007, Florida International University, Miami, Florida

BS, Mining Engineering, 2000, Fundacion Universidad del Area Andina, Bogota, Colombia.

Overview

Mr. Terselich has extensive experience as a soil and groundwater consultant at URS with 15 years of practical experience performing over 400 Phase I and II Environmental Assessments and Audits; Contamination Assessment, Monitoring, and Remediation projects using a phased Risk Based Corrective Action approach providing cost effective site management and rehabilitation while protecting human health and the environment. He has extensive hands-on experience in both conducting field operations and writing technical documents for various types of contaminated high-profile sites including petroleum contaminated sites in shallow groundwater environments under strict regulatory controls.

Project Specific Experience

USD\$3 Million Professional Services Agreement with Miami-Dade County DERM: Staff Scientist for projects including hazardous and non-hazardous waste site investigations, oversight of construction activities, contamination assessment reports, remedial action plans, and source removal projects. Projects include an Ammonia Background Study for Chapman Field Park, Methane Gas Assessment and Management System for Ives Estates Park, Methane Gas Monitoring at Westwind Lakes and Gwen Cherry Parks, and Soil Pile Sampling at Westwind Lakes among others.

Greenhouse Gas Emissions Baseline Inventory, City of Doral (2009): Provide services to establish baseline inventory of Greenhouse Gas Emissions for the year 2008. The inventory was developed using the ICLEI protocol for local governments. Based on the findings of GHG emissions inventory, URS recommended several interim and long-term strategies to reduce GHG emissions and inefficiencies and energy consumption.

Petroleum Tank Closure Assessment, Remediation and Monitoring – Environmental Engineer, 2007-2012: Developed and implemented remedial action plans for soil and groundwater contamination at a former car rental “Dollar” service facility at Fort Lauderdale International Airport including removal of USTs, excavation, removal and disposal of soil, groundwater remediation by air-sparging, and continued groundwater monitoring. Other assessment and remediation projects at fuel service facilities include: Westar Service Station, CITGO Service Station, Palm Beach County Transportation Facilities, Trademark Metals, and the City of Hollywood Fueling Facility, Homestead Air Reserve Base, Miami International Airport, among others

Biltmore Golf Course Assessment and Remediation - Coral Gables: Served as Environmental Scientist who implemented environmental

assessment project for soil and groundwater arsenic contamination at the Biltmore Golf Course. Developed a Remediation Assessment Plan for the arsenic contamination. Also conducted a saltwater intrusion investigation and monitoring for the Granada Golf Course.

Country Club Fuel Tank Contamination Assessment and Remediation – Coral Gables: Served as Environmental Scientist providing the delineation of contamination plume for a diesel leak from a former UST which included the installation and sampling of soil borings and groundwater monitoring wells. Also coordinated and supervised the excavation and source removal of contaminated soil and groundwater. Reports written include Site Assessment and Source Removal Reports and Addendums.

Environmental Scientist – Florida Gas Transmission 2010/2011: Scientist for approximately 50 contamination assessment and remediation projects as part of FGT pipeline replacement and maintenance projects. Remediation involved the removal and disposal of petroleum impacted soil and groundwater as well as treatment/discharge of over 40 million gallons of groundwater contaminated with ammonia and arsenic.

Balboa and Colon, Panama, Aegean Marine Petroleum, Environmental Baseline Evaluation of Bunkering Fuel Storage Facilities 2011: Senior Field Scientist in charge of conducting environmental baseline evaluations for Aegean Bunkering and Fuel Storage facilities in Balboa and Colon. The facilities cover an approximate area of 80 hectares and have a storage capacity of approximately 4 million barrels. Field work included the inspection of the facilities for gross petroleum contamination and the installation of 60 soil boring and 15 monitoring wells. Field observations and laboratory results revealed the contamination of several areas including a 3 hectare wetland with a spill of approximately 11,000 barrels of fuel oil, another 1 hectare wetland with continuous contamination from an under-capacity oil water separator, contaminated soil with buried lead sludge, and contaminated soil and groundwater in areas next to the manifolds and rack areas among others.

Leaking Fuel Lines - Miami International Airport 2009/2011: Field scientist in charge of collecting over 1,200 soil and groundwater samples for the assessment of petroleum hydrocarbon contamination caused by leaking jet fuel lines located around Concourse F at MIA. Achieved the excavation and disposal of 14,000 tons of petroleum impacted soil and 48,000 gallons of petroleum contact water and free floating product at Concourse C. Also prepared the Site Assessment Report and Remedial Action Plan for a 10,000 ft² hazardous waste and petroleum contaminated pond at MIA Cargo Area. Over 5,000 tons of contaminated soil and 20,000 gallons of contact water and product were removed and disposed. Approximately, 450,000 gallons of water are planned to be treated using air sparging.



Mike Powell

Senior Field Technician / Environmental Inspector

Overview

Mr. Powell has 18 years of experience in hazardous waste, RAP implementations, source removals, and UST/AST removals. Mr. Powell is an experienced heavy equipment operator and has been involved in hundreds of remediation projects throughout Florida. Additionally, he is experienced with the installation, operation and maintenance of various types of groundwater extraction, pump and treat, dual phase extraction and dewatering systems.

Project Specific Experience

I-595 Golf Course Lakes, Sediment Sampling Plan, Broward County, Florida: The Florida Department of Transportation (FDOT) conducted a Project Development and Environment (PD&E) Study for proposed improvements to the I-595 corridor in central Broward County, Florida. The PD&E Study limits extend from the I 75/Sawgrass Expressway interchange (Mile Post 0.592) west of 136th Avenue to the I-95 interchange (Mile Post 10.407) for a total project length of approximately 10 miles. Conducted sediment sampling to establish existing sediment quality in lakes at four golf courses prior to lake expansions and introduction of storm water runoff from the improved I-595 corridor.

NW Cargo Area – Miami International Airport, Florida: Provided the operation and maintenance of the groundwater treatment systems A, B, C, D and E in the Northwest Cargo Area at MIA.

Concourses C, E, F at Miami International Airport – Miami, Florida: Served as Field Technician for the installation of groundwater treatment and soil vapor extraction systems, underground piping, and equipment stockade compounds. Mr. Powell also performed daily O&M activities and quarterly groundwater and air sampling.

Former Pan-Am Hangar, Miami International Airport – Miami, Florida: Groundwater/SVE Installation, Pan Am hangar, Miami International Airport.

Miami International Airport - Repair all compromised vault around airport by replacing hinges, springs, fasteners and additional latches.

Dade County Solid Waste (North Dade Landfill) - install and maintain HDPE (high density polyethylene) pipe, risers, valves and sample ports.

City of Doral – Onsite oversight inspection citywide drainage improvement and landfill odor monitoring also using hydrogen sulfide monitor.

Collier County (Naples Landfill) - supervises reclamation of cells 1 and 2 with weekly reports to county.

Areas of Expertise

Soil/Groundwater/Sediment Sampling / Remediation Systems / Groundwater Treatment Systems / Soil Vapor Extraction Systems (SVE) / Bioremediations / Geotechnical Survey / Field Characterization & Assessment Lantec Gas Analyzer/ Hydrogen Sulfide Analyzer

Years of Experience

With URS: 8 Years

With Other Firms: 10 Years

Education

1981 – 1983 / St. Thomas University

Training / Certifications

Sampling & Evaluating Airborne Asbestos Dust/Cert.#

AA03220158202

Ahera Asbestos Supervisor

Certification training / Cert #

AA040601 CS02

Hands on Electrical Troubleshooting

I & II / Florida Water & Pollution

Asphalt Paving Level 1 and Level 2

Inspection

Earthwork Level 1 and Level 2

Inspection

Nuclear Density Gauge Safety

Certified

Confined Space Certified

OSHA 40 hour Hazwoper Certified

CDL Class B with tank and Hazmat

Endorsements

Underground Piping Installation, Former Pan-Am Building – Miami, Florida: Supervised the underground piping installation for the soil vapor extraction system located in the Pan-Am building at MIA.

MacDill Air Force Base – Tampa, Florida: Served as Field Technician for the installation of two remedial soil vapor extraction systems at MacDill Air Force Base.

Homestead Air Force Base – Homestead, Florida: Served as Field Technician for the installation of eight remedial soil vapor extraction systems. Additionally, Mr. Powell performed quarterly service air sampling.

Miami-Dade Parks (Ives Estate and Westwind) – Ongoing methane evaluation of MD parks with operation and maintenance of gas extraction system, and calibration of methane warning system. Continued sampling of monitoring and irrigation wells both on site and adjacent to.

- Lakes By The Bay - Also used a D6 (dozer) to clear and grade land for the installation of gas monitoring probes.

Ashland Chemical Miami – Installation and operation/maintenance above ground pump and treat and soil vapor extraction remediation system.

City of Miami Gardens – Site inspector NW 175 street drainage improvement.

Other Projects Included:

Bioremediation, Homestead Air Reserve Base.

Installation of pump and treat remediation systems at numerous locations, mostly at refueling stations.

Environmental support for the North Terminal Development Program, at Miami International Airport.

Dual phase extraction systems: Sears, Fort Lauderdale Florida; Speed way Port Saint Lucie.

Geo-technical soil borings for building foundation including high rise.

Gas analysis at some Broward County Landfills, using a Landtec gas analyzer.



Juan S. Calderon
P.E., PTOE, PTP
Project Manager

Education/Training
Master of Science in Civil Engineering; Florida International University, Miami, 1999

Bachelor of Science in Civil Engineering; University Santo Tomas, Bogota, Colombia, 1997

Years of Experience
1 year with CALTRAN
6 years with FTE
7 years with other firms

Registrations
-Professional Engineer in Florida No. 58569 Since 2002
-Professional Traffic Operations Engineer No. 1301 Since 2004
-Professional Transportation Planner No. 20 Since 2007

Proficiencies
-Traffic & Transportation Engineering
-Planning Engineering
-Traffic, Highway & Transit Data Collection
-Traffic & Transit Analysis
-GIS
-Traffic Calming
-Simulation
-Financial Management
-Project Management

Professional Experience

Mr. Calderon has over 13 years of experience in traffic/ transportation engineering with a Bachelors and Master’s Degree in Civil Engineering. Mr. Calderon has actively participated in preliminary engineering reports, design projects, planning, development of alternatives, conceptual designs, corridor studies, simulation, GIS, as well as managing or directing projects that encompassed traffic impact studies, traffic circulation, PD&E, modeling, and traffic forecasting. In regards to planning projects, he has participated in tasks involving the EPMP program for the FDOT, highway and traffic data collection, functional classification/governmental jurisdictions, scoping reports, traffic forecasting and modeling, and public involvement.

Mr. Calderon is intimately familiar with transportation projects that involve traffic analyses, planning, traffic calming, traffic safety studies PD&E, and transit. He is also specialized in traffic and transit data collection, traffic and transit data analysis, mapping using Geographic Information System (GIS) platforms, and roadway design software. Some of Mr. Calderon’s clients, for studies such as traffic calming analysis reports, are City of Coral Gables, City of Miami, City of Miramar, Town of Davie, City of Miami Beach, and private developers.

Key Projects

Pinto’s Farm- Engineering Management (2012) Project Manager in charge of providing construction management and administration services to complete the construction of the exterior plaza, main house, kids park, restroom, warehouse and tiki-bar for Pinto’s Farm and the design of architectural plans.

Traffic Impact Study & Parking Analysis for Oxford Academy Expansion, Miami, FL (2011-2012) Provided a traffic impact study for the proposed expansion of the Oxford Academy (The Children’s First Pre-School). Additionally, performed a parking analysis and release traffic control plan.

Polynesian at Islands at Doral- Feasibility Study for Implementing Gates-2012- Project Manager Performed a traffic study to consider the installation of gates in the community, as well as, preparation of roadway plans, pavement markings and signing.

Traffic Study and Signal Design Modification at Miramar Parkway and Palm Ave, City of Miramar: Project Manager (2012) Provide a comprehensive assessment to identify issues, operational needs and provide recommendations that pertains to the proposed signal modification at the intersection of Miramar Parkway and Palm Avenue within the City of Miramar. Performed traffic data collections that included turning movement counts and assisted in the designing of a potential improvement of the signal intersection. Prepare signal design modifications.

Districtwide ADA Consultant Services, FDOT, District 6 (2010-2011) Project Manager. Supported the Public Transportation Office to ensure ADA compliance throughout Miami-Dade and Monroe Counties. Services performed under this contract included plan designs and specification reviews, technical reports/studies reviews, ADA inspections and reports, project site visits, data collection for ADA analysis, design services, construction engineering & inspection (CEI) services, review of permit applications, review of LAP and JPA projects for ADA compliance, ADA compliance at railroad crossings, complaint and court resolutions, and program administration assistance for ADA projects in Miami-Dade and Monroe Counties.

City of Hialeah CEI, City of Hialeah (2010) Project Manager in charge of coordinating detailed CEI inspections during the construction process, certification of pre-manufactured materials, testing of materials, monitoring conformance to construction plans and specifications, review and approval of shop drawings, review and recommend progress payments, preparation of progress reports.



Michael Hernandez
Senior Engineering Specialist

Education/Training:

Currently at Miami Dade College, Miami, FL

AS in Computer Drafting & Design, ITT Technical Institute, 2010 Miami, Florida

Years of Experience:

1 Year with CALTRAN
4 Years with FTE

Proficiencies:

- Highway and Traffic Data Collection
- Micro Station XM
- Geopak
- AutoCAD
- Auto Turns

Certifications:

- Guardrail Installation & Inspection TRESS course - 2010
- HPMS BT-04-0005 - 2008
- Planning Roadway Data Collection - 2008

Professional Experience

Mr. Hernandez has experience in conducting various types of traffic studies including: traffic counts, vehicle classification, turning movement studies, speed studies, travel time and delay studies, parking studies, vehicle gap studies, and roadway characteristics inventory. He has collected measurements for roadway features based in the FDOT latest RCI manual (i.e. lane widths, medians, sidewalk, and shoulders.) He has experience with data input to the FDOT mainframe.

Mr. Hernandez has assisted in the designing of a Miami-Dade intersection improvement and a school zone, including signal systems, using Micro Station XM and Geopak. He elaborates maps using GIS files for data collection purpose in several projects. He is experienced in web design and Photoshop renderings used for FDOT proposals presentation and projects.

Key Projects

Traffic Impact Study and Parking Analysis for Oxford Academy Expansion, Miami, FL- Date: 2011-2012 Assisted in the preparation of the traffic impact report and parking analysis which included data collection services. *Contact: Oxford Academy- Gerrard Samoor (786) 624-8826*

3R- Scoping Reports NW 12th Ave & NW 47th Ave, FDOT, District 6- Date: August to November 2011 Provided accident analyses report for the corridors safety studies and performed traffic data collection services along the corridors. *Contact: FDOT D6 Jennifer Barrow (305) 470-4382 & Burns & McDonnell-Jeannelia Liu, P.E. & Carlos Perez, P.E. (305) 648-3387*

Leeward & Netherlands at Islands at Doral Communities Gate and Street Closure Analysis – Date: September 2011-Ongoing Performed the data collection services that included: traffic counts, classification counts and pedestrian/bicycle counts. *Contact: Allied Property Group, Inc. Jackie Perez (305) 232-1579*

PD&E study services for the US-1 express lanes South Miami-Dade Busway, MDX RFQ10-05, MDX-Date: 2010-2011 Assisted in the roadway study for the potential implementation of managed lanes within the South Miami Dade Busway right-of-way. Some activities performed under this contract included data collection services such as, boarding and alighting surveys, vehicular and transit origin and destination surveys, traffic counts, bike/pedestrian counts, classification counts, park and ride lot utilization counts and transit infrastructure inventories. *Contact: Gannett Fleming- Carlos Cejas P.E. (786) 845-9540*

Critical Intersections Safety Improvements, MDX- Date: 2008-2009 This project examined critical intersections with SR 836. Performed traffic data collection services including traffic counts, classification counts and pedestrian/bicycle counts. Provided engineer with crash analysis report and traffic safety statistic studies along the corridors. *Contact: HNTB- Juan Villalba, P.E., PTOE (305) 252-4433*

Districtwide Miscellaneous Planning Studies, FDOT, D6– Date: 2007-2011 Assisted in the coordination of a wide range of engineering services to support the Transportation Statistics Unit of the Planning and Environmental Management Office. Tasks under this contract included: PTMS & RTMS design through program projects, data collection, RCI (sidewalk/bicycle lane inventory), and review; pavement deficiency evaluation reporting, scoping reports, database management and GIS mapping, and engineering in-house support for District 6. *Contact: FDOT D6- Jennifer Barrow (305) 470-5382*



Myra E. Patino
PE, PMP

Education:

Master of Science in Engineering Management

Florida International University, 1999

Bachelor of Science in Civil Engineering

Florida International University, 1994

Registration:

Professional Engineer, FL No. 56804

Since 2001 Expires 2013
Project Management Professional, Since 2008

Years of Experience:

1 year with CALTRAN
3 year DMJM + Harris/AECOM
1 with year HDR Engineering
1 with C3TS
3 years with Reynolds, Smith & Hills
7 years with Parsons Brinckerhoff

Professional Experience

Myra Patino has over 15 years of experience and has been Project Manager on various transportation planning and traffic engineering projects. She has been involved in a variety of projects including Alternatives Analysis studies, Project Development & Environmental studies, Interchange Modification Reports, Environmental Assessments, Environmental Impact Statements, and traffic impact studies. She also has extensive experience with Public Involvement and Traffic Simulation Analysis

Key Projects

Districtwide Traffic Operations Safety Studies Consultant (FDOT D6)

Project Manager for the overall contract providing traffic engineering Safety Studies, Qualitative Assessments, Left-turn Phase Warrant Analysis, Arterial Analyses, traffic diversion studies and future traffic volume forecasting.

Districtwide Traffic Operations Plans Review Consultant (FDOT D6)

Project Manager for the overall contract providing plans review services for safety and permitting plans for the District.

Districtwide Traffic Operations Safety Studies Consultant (FDOT D4)

Project Manager for the overall contract providing traffic engineering services to produce traffic engineering and safety studies to support the Hazard Reduction Program.

Transportation Planning & Traffic Engineering Services (City of Miami Beach)

Project Manager for the overall contract. Studies included the West Avenue Bridge Feasibility Study, Julia Tuttle Baywalk Safety & Operational Analysis, 71 St. & Dickens Ave. Intersection Study, and Collins Avenue 63 St. to 72 St. Flexible Parking & Floating Bike Lanes Study.

Professional Architectural & Engineering Services (City of Miami Beach)

Project Manager for the overall contract providing traffic engineering services. Work orders included the City Center Traffic Impact and Mobility Study and review of various intersections and recommendations for improvements, as well as reviewing traffic impact studies.

Miami Streetcar Alternatives Analysis (City of Miami) Created Public Involvement Plan and database for public outreach component. Coordinated with FDOT D6 Environmental Management Office on ETDM/EST issues.

SR 934 (NW 79th St. & NW 81st/82nd St.) PD&E (FDOT D6) Conducted quality review of Synchro traffic simulation files and identified potential off-street parking lots to compensate for removal of on-street parking throughout the 3-mile corridor, from NW 13th Ct. to Biscayne Bay within the City of Miami and unincorporated Miami-Dade County.

Bicycle Corridors Safety Study (FDOT D6) Project Manager for study to identify and prioritize corridors in Miami-Dade County with a high number of bicycle crashes.

Northeast Dade Passenger Activity Center Alternatives Analysis (Miami-Dade Transit) Project Manager for study to conduct conceptual engineering design of a bus transit hub near NE 163rd St. and Biscayne Blvd. Tasks included data collection, conceptual design, site determination, and recommendation of the LPA.

Safe Routes to School Program (Miami-Dade MPO) Project Manager for study to develop a procedure for establishing “Safe Routes to School” guidelines for county-wide use and to identify and map “safe routes” for selected pilot schools in Liberty City. Documented extensive data collection efforts. Prepared draft procedure manual for review by Study Advisory Committee.



Jerry Hamilton Bell, AICP *Principal*

Education

Master of Arts in Urban and Regional Planning, University of Florida, 1992

Bachelor of Arts, Geography, University of Florida, 1989

Profile

Mr. Bell is a highly regarded urban planner with twenty years of comprehensive and land planning expertise. He has broad experience preparing planning documents with strong visioning and public involvement components. His planning knowledge includes comprehensive planning, urban design, evaluation and appraisal reports, capital improvement plans, development regulations, annexations, development review, workshop and meeting facilitation, environmental planning, redevelopment, and grant writing.

Jerry has successfully utilized the planning process as a tool to address the unique challenges that face local communities. He has extensive experience managing planning and land development projects for a wide range of municipal clients. The projects Jerry has developed are consistently recognized by our clients and review agencies for their exceptional results.

Professional Experience

Bell David Planning Group

President (February 2003 – Present)

Bell Planning and Consulting

President (August 2000 – February 2003)

Bermello, Ajamil & Partners

Strategic Planner/Project Manager (October 1999 – August 2000)

Miami-Dade County, Florida

Department of Planning and Zoning

Principal Planner (October 1996 - October 1999)

Senior Planner (July 1994 - October 1996)

City of Gainesville

Department of Block Grant Development & Review

Block Grant Planner (March 1992 - July 1994)

HUD Work Study Intern (September 1990 - March 1992)

Client List (Current and Former)

City of Key West

Miami-Dade County

City of Homestead

Town of Cutler Bay

Village of Palmetto Bay

City of South Miami

City of Miami

City of Hialeah

City of Hialeah Gardens

City of Doral

City of Miami Springs

Village of Virginia Gardens

City of North Bay Village

Village of El Portal

Village of Biscayne Park

City of North Miami

City of North Miami Beach

Indian Creek Village

City of Sunny Isles Beach

City of Aventura

Village of Pinecrest

Town of Highland Beach

Town of Manalapan

Town of Lake Park

Village of Royal Palm Beach

Village of Tequesta

City of Oviedo

City of Deltona

City of West Melbourne

City of Port Richey

City of Key West

Southwest Florida Regional Planning Council

Professional Affiliations

University of Florida Urban and Regional Planning Department Advisory Council, 2009—present

Gold Coast Section Florida APA, Board Member 2009—present

Chair, Miami-Dade Planners Technical Committee, Green Initiatives Subcommittee

Florida Chapter of the American Planning Association

American Institute Certified Planners, #013685

American Planning Association, #092548

Professional Awards/Special Commendations

Speaker and Panelist on the EAR Process at a number of events and conferences, including the 2005 APA Florida Conference, July 2009 South Florida Regional Planning EAR Training Workshop, and August 2009 Southwest Florida Regional Planning Council EAR Training Workshop

DCA for Hialeah Gardens EAR

South Florida Regional Planning Council for Aventura and South Miami EAR processes

Treasure Coast RPC for the Village of Royal Palm Beach EAR

Alex A. David, AICP
Principal

Education

Master of Business Administration, Barry University, 1987

Bachelor of Science, Geography (Urban Planning), Pennsylvania State University, 1982

Profile

Mr. David brings expertise acquired over 26 years with both private and public planning organizations. He specializes in both current and long range planning projects including comprehensive planning project, land development regulations, and zoning and site development reviews. Alex has extensive experience working with local, regional, and state planning regulations and is committed to providing governmental clients the expertise and assistance they need to achieve local planning goals while meeting regional and state planning requirements.

His wide array of planning experience includes: Facilitation, strategic visioning plans, Evaluation and Appraisal Reports (EAR), EAR-based amendments; revisions to municipal land development regulations; community build-out studies; annexation applications and studies for both public and private clients. Additionally, he has assisted new governments in establishing the planning and development practices needed to guide growth and development. Alex also has a reputation for building intergovernmental partnerships and navigating through the bureaucracy of local and state agencies in an expeditious manner.

Professional Experience

Bell David Planning Group

Vice-President (February, 2003 – Present)

University of Miami

Facilities Planning and Construction

Associate University Campus Planner (September, 2002 – February, 2003)

Miami-Dade County Public Schools

Governmental Affairs and Land Use Policy and Acquisition

Supervisor, Governmental Affairs and Land Use Policy (January, 1999 – September, 2002)

Miami-Dade County, Florida

Office of the County Manager and Department of Planning and Zoning
Concurrency/Shoreline/Educational Facilities Coordinator (December, 1989 – December, 1998)
Building and Zoning Department
Zoning Division
Shoreline Coordinator/Zoning Evaluator (December, 1988 – November, 1989)
Planning Department
Metropolitan Division
Planning Technician (November, 1985 – December, 1988)

Client List (Current and Former)

City of Key West	Indian Creek Village
City of Homestead	City of Sunny Isles Beach
Town of Cutler Bay	City of Aventura
Village of Palmetto Bay	Village of Pinecrest
City of South Miami	Town of Highland Beach
City of Miami	Town of Manalapan
City of Hialeah	Town of Lake Park
City of Hialeah Gardens	Village of Royal Palm Beach
City of Doral	Village of Tequesta
City of Miami Springs	City of Oviedo
Village of Virginia Gardens	City of Deltona
City of North Bay Village	City of West Melbourne
Village of El Portal	City of Port Richey
Village of Biscayne Park	City of Key West
City of North Miami	Southwest Florida Regional Planning Council
City of North Miami Beach	

Professional Affiliations

Chair, Land Use Subcommittee, Miami-Dade County Post Disaster Recovery Plan
Transportation Aesthetics Review Committee of the Metropolitan Planning Organization
Miami-Dade County Public Schools Citizens Oversight Committee for Public Schools Fac. Planning
American Institute Certified Planners, #015953 / American Planning Association, #116051
Staff Working Group for Public School Facility Planning
Immediate Past Chair, Miami-Dade County Planners Technical Committee
Former Vice-Chair, Miami Beach Design Review Board
Board of Directors, Gold Coast Section Florida APA
Florida Chapter of the American Planning Association
Former U.S. Information Agency International Visitor Program Volunteer

Professional Awards/Special Commendations

DCA for Hialeah Gardens EAR
South Florida Regional Planning Council for Aventura and South Miami EAR processes
Treasure Coast RPC for the Village of Royal Palm Beach EAR

C. Relevant Experience

Experience Profile

The following section provides an overview of our experience providing **General Engineering** and **General Environmental** Services to clients throughout south Florida. As demonstrated within our response, URS has significant experience providing on-call, as-needed professional services to clients locally. The strength of a firm such as URS is our ability to quickly and efficiently allocate the required staff in order to meet the needs of an assignment. As a multidisciplinary services firm, we have seasoned professionals in many areas with a variety of technical backgrounds. We offer the City of Key West a wealth of engineering and environmental expertise, just a call away. The following list provides a brief summary of our experience performing the requested services to clients locally. A detailed description for each contract has been provided on the following pages.

- **City of North Miami Beach** - General Engineering Services
- **Monroe County** - Transportation Planning and Engineering Consultant Services
- **City of Doral** - General Civil Engineering Services
- **City of Miami Gardens** - General Civil Engineering Services
- **City of Wilton Manors** - General Engineering Services
- **City of Coral Gables** - General Environmental Services
- **Miami-Dade County** - General Environmental Services
- **FDOT District VI** - Districtwide Environmental Permitting Consultant
- **Miami-Dade County** - Environmentally Endangered Lands Program
- **National Park Service** - Everglades National Park Environmental Impact Statement
- **U.S. Army Corps of Engineers** - Florida Keys Carrying Capacity Study
- **Monroe County** - Aviation General Engineering Consultant
- **Town of Davie** - General Planning and Engineering Consultant
- **City of Doral** - General Engineering Stormwater Improvements
- **City of Miami** - Transportation Program Management Services
- **FDOT District IV** - General Traffic Operations Consultant
- **FDOT District VI** - General Engineering Consultant
- **Miami-Dade County** - Park Trails Improvements
- **City of Coral Gables** – General Environmental Services

The following section outlines our Team's relevant experience within the past five (5) years. Please note, these contracts are for continuing engineering and environmental services and our scope of work does not include construction phase services. As a result, we have provided an "N/A" to indicate when a category is not applicable.

General Engineering Consultant Services

Client: City of North Miami Beach

Contact: Mr. Jose Casio **Tel.** (305) 948-2980

Design Services Fee: \$ 350,000

Constructed: N/A **Project Cost:** varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 1997 - 2010



Project Description: First awarded in 1997, and renewed in 2007, URS served as General Civil Engineering Services consultant to the City of North Miami Beach. During this time, URS has had the privilege of assisting with the following projects:

N.E. 164th Street Reconstruction (Hanford Boulevard) - URS provided planning and design services of a 4-lane arterial used for bypassing nearby N.E. 163rd Street. The roadway became the Main Street of the Fulford Center District. The enhancement included decorative lighting, streetscaping, pedestrian friendly sidewalks, new signalization, improved drainage, and roadway reconstruction. Since the original Phase 1, the project has been expanded to include the South Glades Drive renovations and all of the avenues connecting N.E. 163rd Street to South Glades Drive.

Fulford City Center Master Drainage Plan - The City authorized URS to conduct a district-wide drainage master plan which identified future drainage needs while taking into account the City's rezoning efforts. This drainage master plan assisted the City in moving forward with the revitalization of the Fulford City Center District, in conjunction with the reconstruction of N.E. 164th Street.

Alleyway Citywide Reconstruction Program - The City and URS developed a 10-year plan to reconstruct over 130 of the City's residential alleyways. The project included the full reconstruction on single lane alleys, including the necessary drainage improvements.

Highland Drive Traffic Circles - This traffic calming project placed two traffic circles in areas where speeding became a problem. Temporary drums were placed as short term traffic circle in order to analyze the effects on the traffic and to familiarize drivers that used the area. Once this stage was done and the City approved of the results, two permanent traffic circles were installed. The construction included roadway reconstruction, landscaping, irrigation, signing, and pavement markings.

Pedestrian/Bicycle Pedestrian Safety Study - Four major developments were scheduled near the North Miami Beach Boulevard and Biscayne Boulevard intersection. URS performed a study of the effects of these developments on the pedestrian and bicycle traffic that frequented the area. The study and suggestions for improved safety conditions.

Transportation Planning / Traffic Engineering Consultant Services

Client: Monroe County

Contact: Ms. Patricia Smith, AICP

Tel. (305) 289-2500

Design Services Fee: \$200,000 (monthly estimate)

Constructed: N/A **Project Cost:** Varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 2005 - Ongoing



Project Description: The general purpose of this contract was to provide professional traffic engineering and transportation planning services through planning assistance with reviews of site plans and traffic impact reports, performing travel time and delay studies along US-1, and providing other congestion management assistance. Since the inception of this contract, several main tasks have been accomplished.

URS successfully completed six travel time and delay study runs during the peak seasons of the years from 2005 through 2010. URS has provided continued assistance in site plan reviews and attended public hearings related to Planning Commission reviews and County Commission hearings.

We have also worked on revising the level of service methodology for US-1, and provided congestion Management assistance related to identifying critical intersections and corridors and proposing solutions to alleviate traffic related problems.

Specific Task Assignments Include:

- Prepared concurrency management plan to identify collectors and secondary roadways, determined reserve capacity on the arterial (US 1), collectors and secondary roads, and provided technical support as an extension to County staff to monitor roadway capacity.
- Completed US 1 Arterial Travel Time and Delay Study.
- Performed reviews of Traffic Impact Reports.
- Conducted research on trip generation rates of land use.
- Reassessed the methodology for determining the Level-of-Service on US-1.
- Provided technical assistance for congestion management.

General Civil Engineering Consultant Services

Client: City of Doral

Contact: Mr. Eric Carpenter, PE

Tel. (305) 593-6740

Design Services Fee: \$ 168,763.00 (combined)

Constructed: N/A **Project Cost:** Varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 2007 - 2012



Project Description: In 2007, URS was selected to provide General Civil Engineering Consulting Services to the City of Doral. The scope of the contract included: roadway drainage design, structural design, traffic and transportation engineering, civil site planning and design, environmental permitting and assessment services, NEPA documentation, contamination assessments, land use and zoning, environmental engineering, building remodeling and new construction, building/ threshold inspections, contract administration, construction engineering inspection (CEI), material inspections, project management and landscape design.

URS has performed several task orders for the City as listed below:

- Doral Southern Commerce Park Permitting
- Doral Police Station Ecological Assessment
- Doral City Hall Phase I ESA
- Doral Landfill Odor Monitoring
- Doral Tract 34 Environmental Assessment
- Doral Tract 33 Environmental Site Assessment
- Doral Tract 60 Environmental Site Assessment
- Doral Passive Recreation Park Feasibility Study
- Doral SW System Field Inspections
- Doral NW 114th Avenue and 112th Environmental Permitting
- Doral Owners Representative for Doral Park
- Doral J.C. Bermudez Park Geotechnical Oversight and Services
- Doral Construction Inspection
- Doral '9-acre Parcel' Ecological Site Assessment
- Doral Sonoma Property Ecological Site Assessment and Phase I Review

General Civil Engineering Consultant Services

Client: City of Miami Gardens

Contact: Mr. Jay Marder, Planning Director

Tel. (305) 622-8000

Design Services Fee: \$ 300,000

Constructed: N/A **Project Cost:** N/A

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 2005 - 2010



Project Description: In March of 2005, URS signed the General Civil Engineering Services Agreement with the City of Miami Gardens. Since that time, URS has performed several task orders as listed below:

Coconut Cay. URS provided Construction Management services for the tail end of the civil construction. Our task was limited to CM observation for Phase 1 paving of several roadways and Phase 2 earth moving.

Survey Plat Review. Acting as an extension of City staff, URS using Manny Vera & Associates (General Agreement Sub-Consultant) reviews plat and plat waivers for the Planning Department. Over the 3-year period this has totaled approximately \$15,000 per year.

NW 175th Street Drainage Improvements. URS was authorized under to provide stormwater design & construction management services for NW 175th Street between LeJeune Road and 37th Avenue. The City obtained grant funding for this project. URS was assigned to provide plan design sheets for the construction of approximately 2,000 feet of French drain stormwater systems. Construction was limited to the grant budget of \$200,000. Design services included survey and geotechnical work.

Industrial Area Drainage Improvements. URS was authorized to provide stormwater design & construction management services for the industrial area located in the southwest corner of the City between NW 58th Street and NW 47th Avenue south of the Palmetto Expressway. This area experiences significant hot spot flooding. URS prepared engineering plans intended to with flexibility that would allow construction where budget allows allowing for priorities and site conditions. Construction is tentatively limited to \$600,000 from grant funding.

URS has performed several Phase 1 & 2 environmental audits as listed below:

- 2245 W. Bunche Park Dr. Phase I Environmental Site Assessment (ESA) and Asbestos Survey – Provided a Phase I ESA and asbestos survey of a 6554 SF church building and property for the purpose of property acquisition.
- 1515 NW 167 Street Phase I ESA – Provided a Phase I ESA of the Ebernezer Deliverance Temple building and property for the purpose of property acquisition.
- NW 163rd Drive Limited Site Assessment – Conducted limited soil / groundwater testing at site in the area of proposed French drains. Coordinated with DERM the permitting issues which needed to be addressed with the respect to low levels of groundwater contamination found.
- Waterman Homes Phase I ESA – Provided a Phase I ESA of a vacant lot on NW 201st Terrace for the purpose of property acquisition.
- NW 27th Avenue Phase I and Phase II ESAs – Provided a Phase I ESA of the building and property at 18601 NW 27th Avenue for the purpose of property acquisition. Due to possible contamination from a neighboring property, a Phase II ESA consisting of soil and groundwater testing was conducted.
- NW 163rd Drive Phase I and Phase II ESAs – Provided a Phase I ESA of the buildings and properties at 1020 and 1050 NW 163rd Drive for the purpose of property acquisition. Due to past usage and facilities on the property, a Phase II ESA consisting of soil and groundwater testing was conducted.

General Engineering Consultant Services

Client: City of Wilton Manor

Contact: Mr. David Archacki

Tel. (954) 390-2190

Design Services Fee: \$ 200,000 per year (approx.)

Constructed: N/A **Project Cost:** varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 1999 - 2010



Project Description: URS served as a General Engineering Consultant to the City of Wilton Manors for over ten years. During this time we provided technical support to the City of Wilton Manors for a variety of services including general engineering, traffic engineering studies, stormwater drainage, and water and sewer design. A few services provided include:

General Engineering Services - Drainage Improvements to NE 24th Street - Engineering-in-charge of retrofitting an existing inadequate neighborhood drainage system with an improved capacity system capable of both adequately draining the storm water runoff, and satisfying Broward County DNRP permitting criteria.

Water and Wastewater Capacity Study - URS conducted a utility study to evaluate the capacities of the City of Wilton Manors' existing potable water distribution and sanitary sewer collection systems that provide service to approximately 12,900 residents. The Study provided the City with estimated capacities for the existing systems, recommended upgrades to support future population growth and provided estimates for the construction of the infrastructure required to meet the anticipated future requirements.

Traffic Engineering Studies - Traffic-calming applications were analyzed and proposed to enhance the quality of life for the residents of the City. Not only was unnecessary cut-through traffic eliminated, but opportunities to improve the aesthetic quality of the City were identified.

General Environmental Engineering Consultant Services

Client: City of Coral Gables

Contact: Mr. Ken Ingersoll

Tel. (305) 460-5054

Design Services Fee: \$ 600,000 (est.)

Constructed: N/A **Project Cost:** Varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 2006 - Ongoing



Project Description:

Coral Gables Environmental Engineering Services (2006 – Ongoing) – URS was awarded a contract with the City of Coral Gables to provide professional Environmental Engineering Services. Services provided to the City included the following: upgrade of existing lift stations, replacement of force mains, environmental studies and reports, I/I reduction, construction inspection, solid waste consulting, storm water system improvements, and studies and reports on miscellaneous sanitary sewer and stormwater utility operations. Other services provided to the City may also include financial feasibility, life cycle costing analysis, cost estimating, programming, planning surveys, site evaluations, and other design services. Typical projects issued to date are described below.

Biltmore Golf Course Maintenance Facility Arsenic Investigation - URS is providing environmental services for the investigation of arsenic in the soil and groundwater in the vicinity of the maintenance building of the Biltmore Golf Course. Elevated arsenic levels above the commercial/industrial levels have been found in soils which will require remediation. Additionally, impacts to groundwater have been defined in the area of the maintenance building that will have to be addressed. URS is in the process of determining appropriate remedial methods to address the soil and groundwater.

Granada Golf Course - URS is assisting the City with the renewal of their Water Use Permit from the South Florida Water Management District for irrigation wells on the Granada Golf Course. URS installed a deep (100') monitoring well to determine the depth of the 250 mg/L chloride interface. Additionally, URS is preparing a SALT monitoring plan required by the District outlining future monthly sampling events to determine depth to water and chloride concentrations in the monitoring well.

Country Club of Coral Gables Site Assessment Report Addendum - URS is providing environmental assessment services of soil and groundwater contamination associated with the removal of an underground storage tank (UST) in 2002 at the Country Club of Coral Gables. Assessment activities have included clearance of public utilities in the area, regulatory file reviews, and soil and groundwater sampling.

Maggiore Phase I Environmental Site Assessment - URS conducted a Phase I ESA in accordance with ASTM Standard E-1527-05 for a parcel of land that the City is purchasing for the purpose of converting it into a park.

Coral Gables Storage and Maintenance Facility (2008 – 2011) – As General Environmental Engineering consultant to the City of Coral Gables, URS has provided extensive environmental services at the City of Coral Gables Storage and Maintenance Facility at 2800 SW 72nd Avenue. Tasks completed include:



Methane Gas Probe Abandonment - URS abandoned the probes and submitted an abandonment report which DERM approved.

Methane Gas Semi-Annual Monitoring - URS sampled on a quarterly basis four methane gas probes and 20 ambient air locations. URS recommended discontinuation of the monitoring program due to no detection of methane gas during the monitoring period. DERM approved URS's recommendation for no further monitoring and abandonment of the monitoring probes.

Methane Gas Quarterly Monitoring - URS sampled, on a quarterly basis, four methane gas probes and 20 ambient air locations at the maintenance facility.

Gas Probe Installation - URS installed three methane gas probes and monitored to evaluate the concentration of methane gas in the probes and ambient air. DERM approved the recommendation for monitoring for 1 year.

72nd Avenue Methane Gas Assessment - URS performed an initial methane gas investigation which included the evaluation of prior data, field sampling existing methane gas probe, and submitting recommendations to Miami-Dade Department of Environmental Resources Management (DERM).

Methane Gas Assessment Plan - URS developed a methane gas assessment plan for the maintenance facility which included identifying proposed locations, design, installation, and sampling methodology/reporting of methane gas monitoring probes. The areas of concern included remaining solid waste around the maintenance building and ambient air inside the building. The final plan was approved by DERM.

Coral Gables Country Club (2008 – 2010) - As General Environmental Engineering consultant to the City of Coral Gables, URS has provided extensive environmental services at the Coral Gables Country Club. Projects completed include:



Country Club SARA – Provided soil and groundwater sampling of a former underground storage tank location (removed by another consultant). URS installed monitoring wells and collected soil samples for analysis of petroleum constituents to provide plume delineation. A Site Assessment Report Addendum was submitted to DERM for review and approval.

Country Club Interim Source Removal – URS conducted interim source removal activities from the former underground storage tank location including the excavation and removal of contaminated soils, removal of free-floating product from the excavation, confirmatory soil sampling and analysis, and restoration of the excavated area with clean fill.

Country Club SRP – URS prepared a Source Removal Plan (SRP) to address removal of additional petroleum contaminated soils and free-floating product in the area of the former underground storage tank, which were not removed during the interim source removal.

Country Club Consulting Services – URS assisted the City with preparation of bid documents and specifications for the source removal of additional petroleum contaminated soils addressed in the Source Removal Plan. URS assisted with the pre-bid and contractor selection process and provided oversight of the source removal activities by the selected contractor. URS provided confirmation sampling of the excavations and submitted a Source Removal Report to DERM.

E08-DERM-01: Environmental Cleanup, Compliance, and Related Services

Client: Miami-Dade County
Department of Environmental Resources

Contact: Ms. Julie Balogh

Tel. (305) 372-6813

Design Services Fee: \$ 3,000,000

Constructed: N/A **Project Cost:** Varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 1998 – Ongoing



Project Description: URS has provided environmental cleanup, compliance and related services for Miami-Dade County facilities for the past 13 years. The scope of work includes conducting environmental investigations and/or rehabilitation and related tasks, in accordance with Chapters 62-770, 62-780, and 62-785 of the Florida Administrative Code (FAC), Chapter 24 of the Miami-Dade County Code, and all applicable regulations; services related to the modification, repair, removal, replacement, installation and/or abandonment of any underground or aboveground storage systems, and any related tasks, in accordance with Chapter 62-761, FAC, and Chapter 24 of the Miami-Dade County Code; providing design criteria and construction management services for environmentally necessary construction tasks; and any other additional environmental-related work for prevention of potential or known contamination, for compliance with applicable regulations, for protection of the environment and public health and for cleanup of environmental contamination. Typical projects included:

Ives Estates Park - URS is providing environmental services related to the redevelopment of the former Ojus Landfill in North Miami. The former 95-acre landfill is being redeveloped into a community park. URS provided the design and installation of a methane gas collection system, including both an active and passive system around the perimeter of an existing building connected to a header pipe and blower. URS is currently providing landfill gas monitoring and operations and maintenance services of the methane gas collection system. URS is also in the process of conducting a pilot test for the insitu treatment of ammonia in groundwater.

North Dade Landfill – URS provided repair and rehabilitation services for 15 vertical landfill gas extraction wells on the active East Cell by replacing with new wells, well-heads and laterals to be connected to the existing header. This work was completed ahead of schedule to comply with the existing Title V Air Permit. Considering the success of this project, Miami-Dade County retained URS to continue to provide maintenance services of the active landfill gas collection system for the landfill. URS is currently providing services related to extension or replacements of well heads and laterals, as and where needed.

Miami-Dade Aviation Department – URS provided site assessments at the three airports (Miami International, Opa-Locka, and Kendall-Tamiami) for the following projects:

- Opa-Locka Site 1: Investigation of free-product plume discovered during the replacement of stormdrain manhole. Opa-Locka Site 5: Investigation to delineate arsenic in soil.
- Boystown: Investigation of a surface spill of fuel as a result of a small aircraft crash.
- NWCA RAP: Providing the installation of shallow and deep cluster wells both airside and landside at MIA to delineate the chlorinated solvent plume within the northwest cargo area at MIA.
- WECA Pond: Provided source delineation and preparation of a Source Removal Plan for chlorinated solvents in groundwater. Currently overseeing the removal of hazardous and non-hazardous soils and groundwater treatment.
- Concourse F: Providing site assessment including the gauging of 55 monitoring wells for free product, sampling of 21 wells for lab analysis, installation of monitoring wells, and collection of soil samples. The purpose of the assessment is to define free-product plumes associated with an August 1, 2000 discharge along the Concourse F hydrant line extending around the concourse.

Districtwide Environmental Permitting Consultant

Client: Florida Department of Transportation District VI

Contact: Mr. John Palenchar

Tel. (305) 470-5223

Design Services Fee: \$ 750,000 (since June 2010)

Constructed: N/A **Project Cost:** Varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 2001 - Ongoing



Project Description: URS maintains two (2) \$1.5 million contracts, for the Florida Department of Transportation (FDOT), District VI, District-wide Environmental Permit Services Consultant contract to support the FDOT's Environmental staff with the preparation, coordination, and processing of environmental resource permit applications for all roadway, bridge, canals and miscellaneous (FDOT-owned boat ramps, utility crossings, etc.) large- and small-scale FDOT improvement projects within Miami-Dade and Monroe Counties.

Key services under this contract include environmental/coastal permitting, habitat assessments, wetland evaluation studies, marine benthic surveys, turbidity modeling, threatened and endangered species surveys, manatee protection guidelines, roadway plans review, mitigation planning and design, and preparation of associated National Environmental Policy Act (NEPA) documents for federally funded projects.

Notable projects under this contract have included: 5th Street bridge replacement, (City of Miami); road widening and improvements to US-1 (18-mile stretch) South (Miami-Dade and Monroe); roadway improvements and construction of new roadways for the Miami Intermodal Center (Miami-Dade), bridge replacements at N.W. 12th Avenue and Verona Avenue; boat ramp improvements at Key Haven Boulevard (Monroe) and US-1 (18-mile stretch) South (Miami-Dade and Monroe); and drawbridge cable replacements for seven bridges along the Miami River (Miami-Dade). Types of permits/approvals applied for under this contract include the following:

South Florida Water Management District

Environmental Resources Permit (ERP)
Right-of-Way Occupancy Permit
Water Use Permit

Florida Department of Environmental Protection

Environmental Resources Permit (ERP)
Class V Deep Well Permit

U.S. Army Corps of Engineers

Dredge and Fill Permit

Miami-Dade County DERM

Class I Coastal Construction Permit
Class II Stormwater Discharge Permit
Class III Right of Way Permit
Class IV Freshwater Wetlands Permit
Class V Dewatering Permit
Stormwater Management (MSSW) Permit

U.S. Coast Guard

Bridge Permit

General Environmental Engineering Services

Client: Miami-Dade County Environmental Resources Management

Contact: Ms. Cynthia Guerra

Tel. (305) 572-6687

Design Services Fee: \$ 350,000

Constructed: N/A **Project Cost:** Varies

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 2005 - 2011



Project Description: URS was awarded a contract in the fall of 2005 by the Miami-Dade County Department of Environmental Resources Management (DERM) for the Environmentally Endangered Lands (EEL) Program. The professional services conducted under this contract included the preparation of management plans for 35 to 40 EEL sites. The plans guided the future management of each site with regard to the restoration and maintenance of the site's natural areas and to the public's access to the site and awareness of it.

Further, these plans articulated the best ultimate use of each property for a 10-year time frame. The planning process incorporates opportunities for public comment, with particular regard for residents living near each site and required planning and facilitation of public meetings. In cases where sites were acquired with State matching grants through the conservation and Recreations Lands Program (CARL), the Florida Forever Program, or the Florida Communities Trust Program (FCT), the management plan was to meet the requirements of the granting agency.

The EEL Program was established in 1990 by Miami-Dade County. The program identifies and secures the acquisition, protection, and maintenance of environmentally endangered lands for preservation. Since 1990, they have acquired more than 21,000 acres of Environmentally Endangered Lands. The purchase and conservation of these lands ensure that they are shielded from development and will continue to thrive as natural habits.

Services under this project also included: land management planning; site restoration and maintenance planning; land use planning; public involvement; and granting agency plan compliance.



Environmental Engineering Services – Impact Statement for Additional Bridging

Client: Everglades National Park
National Park Service Tamiami Trail “Next Steps”

Contact: Ms. Patrick Malone

Tel. (305) 969-2415

Design Services Fee: \$ 376,264

Constructed: N/A **Project Cost:** \$376,264

Awarded Contractor: N/A **Contractor Contact:** N/A

Project Duration: 2005 - 2011



Project Description: URS was retained by the National Park Service (NPS) to prepare an Environmental Impact Statement (EIS), in accordance with NEPA and the NPS Director’s Order 12, to evaluate the feasibility of adding additional bridge length along Tamiami Trail (U.S. Highway 41). The purpose of the project was developed as part of the 2009 Omnibus Appropriations Act passed by Congress on March 10, 2009, in which Congress directed the NPS “to immediately evaluate the feasibility of additional bridge length along Tamiami Trail to restore more natural water flow to Everglades National Park (ENP) and Florida Bay”. The project is considered a critical component of the \$10.9 Billion Comprehensive Everglades Restoration Plan (CERP) to restore ecological connectivity and natural habitats between the ENP and the Water Conservation Areas.

The Tamiami Trail, which was completed in 1928 as a major east and west corridor across Florida, is an impediment to surface water flow and is blocking the natural water flow south into the southern Everglades and ENP. Additional blocking of direct flow occurred with the 1962 construction of the L-28 and L-29 levees enclosing Water Conservation Areas (WCAs) 3A and 3B and enlargement of the road borrow canal (now called L-29 Canal), as part of the C&SF Project. The cumulative result of construction of Tamiami Trail and the C&SF Project was significant reduction in the volume, timing and duration of water flow to Northeast Shark River Slough.

As part of the project, URS facilitated 1) a one-day internal scoping meeting at the park to develop the NEPA purpose and need for action, objectives, issues and impact topics and to develop preliminary alternatives, 2) a public scoping workshop to communicate the EIS process and solicit input from the affected public and 3) a public meeting to solicit agency and public comments on the Draft EIS document. The public meeting was well attended and over 14,000 comments were received on the Draft EIS with the majority (98% of the respondents) in favor of the project.

URS also worked closely with various Federal, State, Indian Tribe and local resource agencies whose environmental review of the proposed project was closely coordinated with the NEPA review. Development of the EIS required that URS assess the environmental impacts of the proposed project, identify and analyze alternatives to avoid and/or minimize those impacts, and evaluate mitigation measures to offset unavoidable impacts.

Six alternatives were evaluated in the EIS including a no action alternative. Alternative 6e was selected as the preferred alternative which is the maximum bridging option, consisting of 5.5 miles of bridges and elevating the remaining roadway. The estimated construction cost for Alternative 6e is over \$330 million.

Other Relevant Experience

Florida Keys Carrying Capacity Study



Location

Monroe County, FL

Services

Environmental Engineering

Client

U.S. Army Corps of Engineers –
Jacksonville District

Project Duration

1998 - 2002

Client Contact Name(s) and Telephone Number(s)

Ms. Deborah Peterson
400 W. Bay Street
Jacksonville, FL 32202
(904) 614-5064

Project Cost: \$2,800,000

Project Description

The US Army Corps of Engineers and the Florida Department of Community Affairs selected URS to study conditions and develop this spatially explicit, computer-based analysis model to determine the ability of the Florida Keys ecosystems and infrastructure to withstand impacts of additional development.

Modeling was developed to show existing conditions and to evaluate and show the effects of land use changes on the natural environment, socioeconomic conditions, and human infrastructure of the study area. The project goal was to provide USACE, DCA, Monroe County and local planning agencies with a database and regional planning tool.

Project highlights include:

- Extensive user needs assessment.
- Extensive data management including identifying, collecting, assessing, organizing and assimilating datasets regarding ecosystems and species, ecological processes, water circulation modeling, and biophysical parameters.
- State-of-the-art GIS modeling using Arc 8.1, Visual Basic for Application, and MS Access (to develop a personal geodatabase).
- Development of Comprehensive Water Module which included Potable Water, Wastewater and Stormwater Elements.
- Development of a one-of-a-kind simulation model with graphic interface capability. The model calculates the effect of the proposed development or restoration activity on terrestrial habitat and species, stormwater, wastewater, socioeconomics and fiscal elements.
- Extensive public involvement (multiple series of public meetings throughout the Keys).
- Formal report preparation and presentation in the technical, public, and political arenas.
- URS was the recipient of the **ACEC 2003 National Grand Award**.





Key West International Airport General Engineering Services

Project Description

Studies spanning over 30 years concluded that necessary improvements to the Runway Safety Area (RSA) at Key West International Airport (KWIA) could not be implemented due to site limitations including space, environmental impacts, opposition by local environmental groups, and projected mitigation costs.

Runway 9/27 at KWIA is located within an environmentally-sensitive salt pond system that contains productive sea grass beds, clear open water, and mature mangrove wetlands. Of particular note, the airport contains the last large stand of mangroves on the island; the waters in the salt pond are classified by the State of Florida as Outstanding Florida Waters; and, the salt ponds are located within the Florida Keys National Marine Sanctuary. In addition, the site contains a nationally-eligible historic site, essential fisheries habitat, and habitat for several endangers species. An FAA-funded runway rehabilitation project required Monroe County to build an updated RSA that met FAA guidelines.

In 2010, the URS Team developed an innovative solution which addressed the environmental impacts and incorporated the use of a non-standard footprint and innovative Engineered Materials Arresting System (EMAS) to improve safety to the greatest extent possible, while satisfying state and federal environmental resource permit requirements. After evaluating several alternatives, the URS Team determined that a non-standard footprint for the RSA would be the only option in order to minimize the environmental impacts to the sensitive surrounding area. On the east end of the runway, the non-standard RSA only extended approximately 375 feet beyond the end due to sensitive mangroves located 400 feet beyond the runway. On the west end of the runway, the RSA was designed to extend 600 feet, which required the filling of an existing pond. FAA design standards require that Monroe County provide an RSA that extends 1,000 feet beyond each end of the runway. In order to stop the aircraft within a smaller area, the RSA included the installation of an Engineered Material Arrestor System (EMAS). The EMAS is a bed of lightweight, crushable concrete, constructed at the end of the runway with the purpose to stop an aircraft overrun with no human injury and minimal aircraft damage.

Led by the Miami office, the URS Team was comprised of experts from throughout the company including environmental experts from the Tampa - Florida and Morrisville - North Carolina offices, which played an important role in obtaining required environmental approvals from federal and state agencies. Their contributions were instrumental in developing the unique “mitigation” solution to the environmentally sensitive work site. The Miami office provided project management and design services for the RSA improvements, including use of the innovative EMAS to accommodate the limited RSA extension.

In order to garner support and generate buy-in for the project, the URS Team led intense and focused collaboration efforts with the FAA, environmental agencies, and local environmental groups. Concurrently the design Team collaborated with the EMAS manufacturer to determine a best-practices system for KWIA. Understanding the project was performed within an international airport, URS

Location

Key West, Florida

Services

General Engineering

Client

Monroe County

Project Duration

Professional Services: 2010

Construction Services: 2011

Client Contact Name(s) and Telephone Number(s)

Mr. Peter Horton
(305) 296 - 7223

Project Cost

\$2,374,019





required all teams to conducted their assessment and construction activities in conformance with all routine, emergency requirements, and guidelines included in the FAA circular "Safety on Airports during construction," as well as URS' internal safety requirements. URS and the construction contractor developed a quality control program in accordance with the contract documents which included regular environmental inspections, laboratory testing, RPR, EMAS inspection, and regular site visits by the project manager to verify quality work. In the end, the expertise of the URS Team assisted in making KWIA a safer facility for everyone

Comprehensive Planning, Town of Davie



Location

Davie, Florida

Services

Planning

Client

Town of Davie

Project Duration

2003 - 2005

Client Contact Name(s) and Telephone Number(s)

Mr. David Quigley, AICP
(954) 797-1075

Project Description

The Town of Davie is a semi-rural pleasant town of approximately 34 square miles and centrally located in Broward County. Key Town assets are the rustic-themed downtown, over 150 miles of interconnected equestrian and pedestrian trails, quiet rural residential neighborhoods, the location of Nova Southeastern University and the South Florida Education Complex, as well as a strong-knit community fabric. These attributes make the Town of Davie one of the most desirable places to live, work, and play in South Florida.

One of the most critical issues for the Town, as well as other communities in South Florida, is its transportation network. The Town identified three issues to be addressed by the Evaluation and Appraisal Report of the Transportation Element:

- Right-of-way base map and inventory of local roadways in the Town
- Providing a network continuity for north-south and east-west circulation
- Continued coordination with government transportation agencies

The URS project team of transportation planners, traffic engineers, and transit specialists prepared the Evaluation and Appraisal Report for the Transportation Element. URS worked closely with Town staff as well as governmental transportation agencies to acquire planning information and data. The goal of the project was to evaluate the Transportation Element for compliance with the 9-J-5, amendments to the State Growth Management Plan, and Broward County's Long Range Transportation Plan.

The Town desires to maintain a high quality of life for its residents and recognizes that an increase in growth and development has caused an increase in traffic volumes. URS identified roadways within the Town that do not meet the existing Level of Service and provides recommendations for improvements. Additionally, the project identified where proposed improvements to the roadways within the Town and expanded transit service will have an influence on the transportation network.



City of Doral Stormwater Improvements



Location

Miami, FL

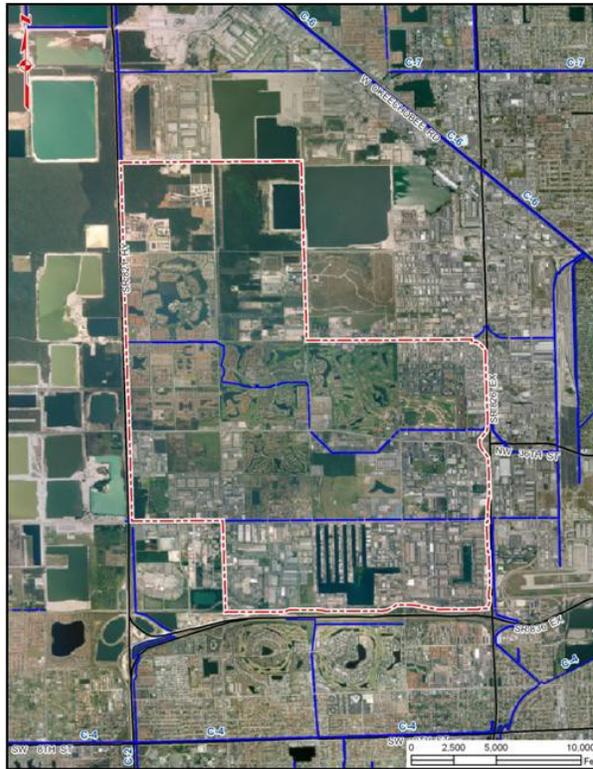
Services

Stormwater Engineering Design
Permitting
Construction Inspection &
Administration

Client

City of Doral

Mr. Eric Carpenter City of
Doral Miami, FL 33128
Tel. (305) 593-6740



Project Value

Construction: \$2,900,000

Project Duration

2006 – 2008

Project Description

URS was selected by the City of Doral to prepare engineering services for the \$2.9 million capital improvement plan outlined in the 2005 Stormwater Management Master Plan. The scope of services included stormwater design, geotechnical testing, and surveying, followed by bid assistance and construction management of the projects.

URS prepared approximately 12 roadway designs within a 3-month period and permitted these projects in another month to meet the client's construction and grant funding schedule. URS attended several public meetings on some of the controversial projects in support to the City.

URS assisted in preparation of the bid package to select one contractor who would then construct the projects on a work order basis following a bid sheet price list. This provided the City additional cost and construction control on the project. URS performed inspection services, design modifications, and payment requests by the contractor.



City of Miami Transportation Program Management Support Services

Project Description

The general purpose of this contract is to provide professional traffic engineering and transportation planning services through planning assistance. The project scope included, but is not limited to, reviews of site plans, providing traffic impact report review, to assisting with the EAR, developing corridor traffic impact studies, pedestrian / bike facilities studies, and providing technical staff as an extension to the City staff.

URS has a strong understanding of the City of Miami's Capital Improvement Program (CIP) and Transportation Program having worked closely with the City since 2003. Under this contract, URS has assisted the City with reviewing numerous large scale development applications, many of which have resulted in meeting the City's Comprehensive Plan goals and objectives. We have also assisted with the EAR of the Transportation Element of the Comprehensive Plan and identified several areas of the transportation plan that could be improved. Our services have extended in recent years to develop enhancement improvements to several roadways within the city, and to assist with the development of a Baywalk Plan. Additionally, URS has provided on-site support staff as required to assist with the everyday tracking and monitoring of development conditions.

Location

Miami, FL

Services

Program Management

Client

City of Miami

Project Duration

Ongoing

Client Contact Name(s) and Telephone Number(s)

Mr. Carlos Cruz-Casas
(305) 415-1092



FDOT District IV Districtwide Traffic Operations



Project Description

URS has been retained by the FDOT VI Traffic Operations Office to provide traffic engineering services ranging from collecting speed and traffic data to prepare concept plans to improve roadway intersections and corridors. Tasks include traffic analysis, crash analysis, performing a myriad of traffic engineering studies, including signal warrant analysis, cost estimation, and benefit/cost analysis.

Location

Broward, Palm Beach, St. Lucie
Counties, FL

Services

Traffic Operations Engineering
Services

Client

FDOT District IV

Project Duration

2009 – Ongoing

Project Value

\$200,000

Contact

Ms. Teresa O’Conner
Phone: (954) 777-4356



FDOT District VI General Engineering Consultant

Project Description

URS was been selected by the Florida Department of Transportation (FDOT) District VI to provide General Engineering Consultant Services for a wide range of engineering, survey, architectural, landscaping, technical, management, and administrative services as needed to assist in executing projects in the Distinct VI Work Program. In this role, URS primarily supports the Transportation Development Departments including Consultant Management, Right of Way Administration, Right of Way Engineering, Design, Survey & Mapping and Planning & Environmental Management. Furthermore, URS may also provide Professional Services Contractual support as needed by Transportation Development as well as Traffic Operations, Maintenance, and Construction activities of the state highway system as necessary to support Transportation Development. As part of this task order contract, URS has provided professional services in support of the Port Miami Access Tunnel project, and general on-call project support. Details of these work orders are provided below.

Port of Miami Tunnel & Access Improvements Owner's Representative -

URS is providing Owner's Representative services to the Port of Miami for the Port of Miami Tunnel project. As Program Managers, URS is providing coordination, management and technical expertise to Miami-Dade County (MDC) on this \$1 billion PPP project. The FDOT entered into a 35-year concession agreement for the design, construction, financing, operations and maintenance of the Port of Miami Tunnel. The project will significantly improve access to the Port from the Interstate Highway System via submerged twin 40-foot diameter bored tunnels, first of their kind in the United States, connecting Dodge Island to Interstate 395. The scope of work includes providing Project coordination between MDC and FDOT, management, technical expertise, and design reviews for all work designed and constructed on Dodge Island, including the relocation of the FEC railroad.

Drainage Design for SR997 / Krome Avenue - Project will include the total reconstruction of SR 997 from two lanes to four lanes. URS will provide drainage design for the corridor which included French drains and swales.

Drainage Design for SR-5 / Overseas Highway - Project is to solve the flooding problems along the ocean side of SR 5 in front of the businesses and parking areas. Drainage improvements will include new inlets and new storm sewer that will collect and convey runoff to a proposed pond facility which will also provide treatment for overflow.

Drainage Design for SR-7 / NW 7th Avenue - Project will include flexible pavement reconstruction of the road. Typical section consists of 4-10' through lanes plus a 10' two way left turn lane. There are curb and gutter type F on the outside with a 6' to 8' sidewalk.

Location

Miami, FL

Services

General Engineering

Client

Florida Department of
Transportation – District VI

Project Duration

2010 - Ongoing

Client Contact Name(s) and Telephone Number(s)

Ms. Judy Solaun, PE
(305) 470-5207



Coral Gables Incinerator Stack Environmental Services

Project Description

As General Environmental Engineering consultant to the City of Coral Gables, URS has provided extensive environmental services at the Incinerator Stack in Coral Gables. Projects completed include:

Incinerator SAR (2008 – 2010) – Provided soil and groundwater sampling of the former incinerator stack location. URS installed monitoring wells and collected soil sampling for analysis of dioxins, metals and PAHs (EPA Method 8270). Soil contamination above Residential Soil Cleanup Target Levels was found. An engineering control for the site was proposed to DERM to address the soils. DERM concurs that once the contamination is defined, that an engineering control would be an appropriate method for addressing the contaminated soils. This could result in potential savings to the City in the hundreds of thousands of dollars as compared to hauling the soils off-site for disposal.

Refuse Pit Soil Management (2008 – 2009) – URS provided monthly inspection and soil pile covering of contaminated soil resulting from the incinerator stack demolition project. Rather than paying to dispose of the soil, URS recommended providing a temporary engineering control (fencing around the piles to provide limited access) until the soils could be incorporated into whatever future plan of action was deemed appropriate for the overall incinerator site.

Oil/Water Separator Closure (2008 – 2009) – URS performed assessment of groundwater and soil related to the removal of an oil/water separator (by another consultant) located on the incinerator stack parcel. URS sampled monitoring wells, collected soil samples for analysis and performed source removal of petroleum contaminants in groundwater from one monitoring well by over-pumping. Field activities and the source removal were documented in an Oil/Water Separator Closure Addendum Report, which was approved by DERM for “no further action.”

Location

Coral Gables, FL

Services

Environmental Engineering

Client

City of Coral Gables

Project Duration

2008 - 2010

Client Contact Name(s) and Telephone Number(s)

Mr. Ken Ingersoll
(305) 460-5054



Park Trail Improvements



Location

Miami, FL

Services

Architectural and Engineering
 Planning
 Design
 Permitting
 Construction Administration

Client Contact

Miami-Dade County Park and Recreation Department
 Mr. Manuel Cruz, Construction Manager
 Tel: (305) 755-7913

Project Value

\$1,294,000

Project Duration

2007 – 2015



Project Description

URS was selected to assist the Park and Recreation Department with improvements to Miami-Dade County’s greenways and trails network. The scope of services consists of architectural and engineering services, which include but is not limited to, planning, design, permitting, and construction administration services, for the implementation of various greenway network and support amenities at trailheads for the North Miami-Dade and South Miami-Dade areas.

On this general services contract, URS has received five (5) ongoing work authorizations for the design of three pedestrian bridges, one trail enhancement, one trail design, and one feasibility study. Design authorizations begin with schematic design through full construction administration. These projects total approximately \$700,000 of the \$1.294 million capacity and are the following:

Design of Bridges A and B located on the South Dade Black Creek Trail. Each bridge will be designed to accommodate pedestrians, bicyclists, and equestrians.

Design of the South Dade Cultural Center Pedestrian Bridge. This bridge will provide access from the south bank of the Black Creek Canal to the newly constructed South Dade Cultural Center. This bridge is anticipated to incorporate some additional architectural design to compliment the unique design of the cultural center.

Design enhancements to the Biscayne Trail in South Dade from Old Cutler Road approximately three miles to the Black Point Marina. Major items here include additional amenities such as parking, pavilions, benches, and a fishing pier; additional landscaping; enhanced intersection crossings; and additional facilities to meet ADA compliance.

Design of 3.1 miles of shared-use path for the Snake Creek Canal. This is the central portion of the Everglades to the Bay trail (US 27 to Oleta State Park) from Dolfín / Land Shark Stadium to east of US 95 connecting to the City of North Miami Beach Trail. Following the 1994 master plan, this will be a meandering shared use path with about one million dollars in landscaping, several mini parks, exercise stations, and parking facilities.

The Feasibility Study is for a bridge crossing over US 95 and the Tri-Rail for the Snake Creek Trail. Currently the trail travels under US I-95 and Tri-Rail, but does not meet ADA compliance or present a positive trail experience. One solution to this is to construct a 500 ft span steel, concrete, or cable-stay bridge over US I-95.

D. Approach



Overall Management Approach

Project Execution Plan

It is a standard URS practice to develop an “Overall Management Approach” at the beginning of a contract and share this with the client. At the start of the project, a Project Execution Plan (PXP) will be prepared by Mr. Rajendran “Raj” Shanmugam, PE, our Project Director/Manager, following the standard URS policies and procedures. The purpose of a PXP is to plan the execution of a project thoroughly, to document that plan, and to communicate that plan to all project team members. The PXP will include client contact, scope of services, staffing plan, project schedule, budget data, quality control program, and other pertinent information necessary to effectively develop a cost-effective project that meets the needs of the City of Key West (City). The intent of the PXP is to facilitate project planning before project execution. The PXP is distributed to key personnel at the notice-to-proceed meeting.

Project Communications/Interface with the City of Key West

We recognize that there is a need for a variety of diversified professional services to be provided to the City through this contract. **Mr. Carlos Garcia, PE and Vice President, our proposed Principal-in-Charge,** will be responsible for allocating all of the appropriate resources. He will also provide overall Quality Control oversight for all deliverables to the City.



To provide consistent communication between the City and URS, we recommend implementation of a communication protocol that will utilize single point of contact within the City and URS for each assignment. **Mr. Rajendran “Raj” Shanmugam, PE, our Project Manager,** has the key role of coordinating all aspects of the contract with the City. He will be the point of contact to make the City Project Manager aware of the progress being made and all issues requiring the City’s attention are discussed in a timely manner and brought to a quick resolution so as not to affect the overall project schedule. For each work order, depending on the scope of the assignment, Raj will work closely with our task managers - Mr. Joaquin Barnes, PE for General Engineering and Ms. Paula Sessions, PG for General Environmental to develop the schedule and identify the appropriate resources for the assignment. Our Team will use email correspondence extensively and technical memoranda and monthly (or bi-monthly) progress reports, when necessary, to assist in the communication of technical, cost, and schedule issues. Additionally, project status briefings and formal presentations to the City staff can be scheduled at the discretion of the City. Status briefings, formal presentations, and workshops are encouraged as additional mechanisms to facilitate communicating significant technical issues, potential schedule delays or other issues which appear significant. Our proposed protocol is flexible and can be easily modified to best suit the needs of the projects and the City.



Workload/Staff Availability

URS has examined the current and projected workloads of all proposed team members and have determined that they have no obligations, either present or future, that would prevent them from performing with excellence on any task assigned to URS under these contracts. One of the advantages of being a large firm with significant depth of manpower is that we can handle new projects without compromising our existing commitments. URS' current and projected backlog office-wide is moderate, and our project team has ample capacity for the additional work that will be generated by this contract. Each person shown on our organization chart will be available for assignment whenever their particular skills are required. In short -- we are available to begin work immediately upon receipt of Notice-to-Proceed for each project and to complete all work in a timely, cost-efficient manner.

TIME AND BUDGET REQUIREMENTS

Project Scheduling

To facilitate timely completion of all work, a dynamic schedule is established and deliverables are identified at the beginning of each project. The identification of schedule activities and significant milestones for each task are provided by the individual discipline leaders based on their understanding of the project scope and their prior experience on similar projects. All major project activities as well as the deliverables are shown on the schedule. Deliverable submittal dates and major project events are classified as project milestones. The activities required to meet these milestone dates are identified and are logically scheduled to support their achievement. Items such as report/specification outlines and drawing lists as well as drawing mockups also are developed. These items, along with action lists, are monitored and updated in conjunction with the schedule as tangible means of tracking the progress of individual tasks/phases and identifying/reacting to problem areas.



Schedule tracking is accomplished by comparing project status to planned milestones for the City. Various scheduling tools are available, but we find that simple bar charts are adequate for schedule control of most projects. Project team understanding of what is required is the best resource for keeping a project on schedule. Monthly project schedule reviews by the project manager and his task managers will be a key to keeping the team and the City informed of progress and identifying any deviations from plan.



Cost Control

Controlling costs is one of the top priorities on all URS projects. Simply stated, we make money and stay in business by becoming the client's "budget watchdog." Only if we budget properly and control your costs can the projects be mutually beneficial. We continually update our opinion of probable construction costs and compare it to your construction budget. We have found that continual monitoring of the anticipated construction costs allows both the City and URS to make informed decisions on design aspects of the project.

URS maintains rigorous internal administrative procedures and systems to monitor the labor utilization and financial expenditures of each project. The internal systems enable the project manager to evaluate the timeliness and cost-effectiveness of technical progress at any time on any assignment.

Addressing Unexpected Issues

Unexpected issues can and do happen. How the project manager and other team members respond to unexpected issues can easily determine the success or failure of a project. The most important aspect of preventing unexpected issues is timely and effective communication. Should an unexpected issue arise during the course of a project, timely and effective communication is still key to keeping the project under control, on schedule, and within budget. Our project manager will swiftly act to gather the facts of the situation and will report and discuss them with the City project manager as quickly as practicable. Together, the URS project manager and the City will analyze available alternatives to resolve the issue and will decide upon and implement the most appropriate course of action.

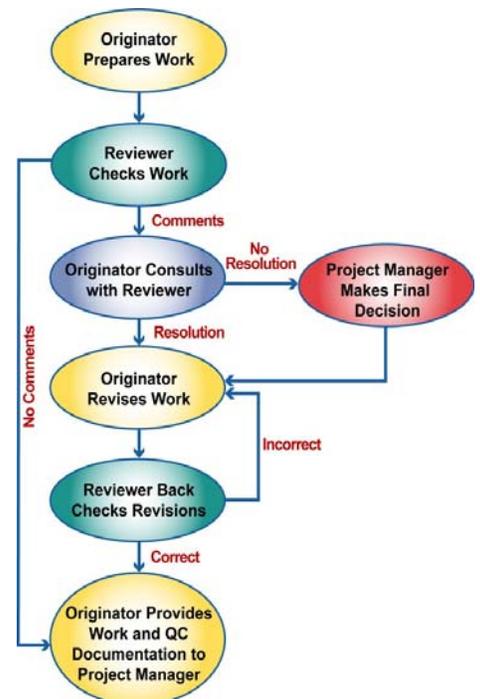
Subconsultant Participation

URS has always held a philosophy and strong commitment to placing a fair proportion of subcontracting awards to small, women and minority business enterprise firms, and to participate in the development and growth of small disadvantaged business enterprises (SBE/DBE/MBE/WBE). This commitment often results in “above and beyond” efforts to provide maximum opportunities to such firms by means of subcontractor relationships, Mentor-Protégé programs, and active participation in small business trade associations. Not only is URS an Equal Opportunity Employer, but we also strive to utilize the most highly qualified subconsultants for every assignment.

QUALITY CONTROL

Quality Control and Technical Procedures

URS understands the importance of Quality Control (QC) in all its professional endeavors. The attention given to this process achieves several objectives; notably, that our work products comply with the quality requirements of the City, all work meets a high standard of technical quality for project deliverables, and the occurrence of potential errors and/or omissions is minimized. A major component of QC is the performance of reviews at appropriate times throughout a project to evaluate the adequacy of materials, documentation, processes, procedures, training, guidance, and staff required in the execution of the task. Internal procedures require the Project Manager to prepare a Quality Control Plan for each assignment. The Plan addresses the following three key areas:



Project Team Responsibilities - Each member of the project team is required to comply with the QC procedures. At specific milestones identified at the beginning of each assignment, QC reviewers will be required to document the review comments, sign-off on completion of the deliverable(s), and place a record of the review in the project's quality review records file. Each member of the project team is encouraged and expected to inquire of the Project Manager regarding any tasks that may be unclear or require additional clarification. The Contract Manager, in turn, is to keep the designated QC reviewers for the project apprised of the project progress and is to make sure that all deliverables and work products receive timely reviews by the QC reviewer.

Project Reviews - Prior to submittal of major deliverables, the QC reviewer will conduct an independent review of the deliverable. This is in addition to routine QC reviews that are conducted throughout the design process. Work that does not meet internal quality standards will be noted and changed accordingly. Subsequent to the reviews, the Project Manager will prepare documentation recording the basis of the reviews, the specific items that were reviewed, the findings of the review, and any follow-up required.

Checking Procedure - Throughout the quality review process, all reviews will be documented with either the reviewer's signature or initials to indicate that the quality review was completed. If no changes are required, then it will be so noted. If changes are needed to meet technical standards, then a punch list of the changes will be created. After the revisions are made, a final check will be conducted to confirm that all of the requested changes were implemented. This procedure is documented and placed in the quality review records file.



E. Attachments

1. City of Key West Forms
 - Certificate of Authority – Carlos Garcia, PE, Vice President
 - Anti-Kickback Affidavit
 - Equal Benefits for Domestic Partners Affidavit
 - Public Entity Crimes
2. Professional Team Licenses
3. Corporate Team Licenses
4. Proof of Insurance
5. Acknowledgement of Addenda

CERTIFICATE OF AUTHORITY

I, Kristin L. Jones, the undersigned, do hereby certify that I am the Secretary of URS Corporation Southern, a California corporation (the "Corporation"), and that, as of January 1, 2012, the Board of Directors of the Corporation, by unanimous written consent, duly adopted a resolution authorizing Carlos Garcia, Vice President of the Corporation, to sign any and all contracts or amendments to contracts on behalf of the Corporation.

I do further certify that the above resolution has not been amended or revoked and is now in full force and effect.

Dated this 30th day of July, 2012



Kristin L. Jones, Secretary



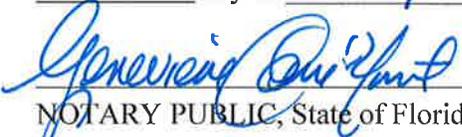
ANTI-KICKBACK AFFIDAVIT

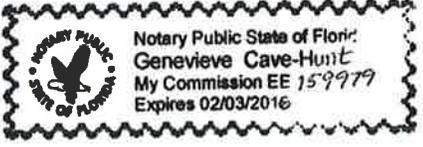
STATE OF FLORIDA)
 : SS
COUNTY OF Miami Dade)

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

By: 
Carlos Garcia PE
Vice President Office Mgr

Sworn and subscribed before me this
30 day of July, 2012


NOTARY PUBLIC, State of Florida at Large

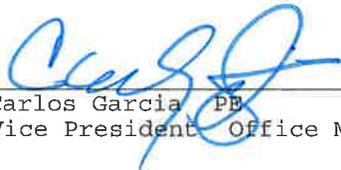


My Commission Expires: February 3, 2016

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

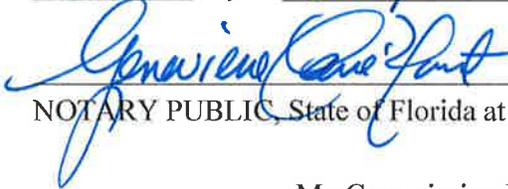
STATE OF FLORIDA)
 : SS
COUNTY OF Miami Dade)

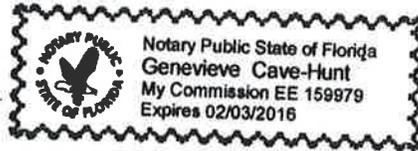
I, the undersigned hereby duly sworn, depose and say that the firm of URS Corporation Southern provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: 
Carlos Garcia PE
Vice President Office Mgr

Sworn and subscribed before me this

30 day of July, 2012


NOTARY PUBLIC, State of Florida at Large



My Commission Expires: February 3, 2016

City Ordinance Sec. 2-799
Requirements for City Contractors to Provide Equal Benefits for Domestic Partners

- (a) Definitions. For purposes of this section only, the following definitions shall apply:
- (1) **Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package: sick leave, bereavement leave, family medical leave, and health benefits.
 - (2) **Bid** shall mean a competitive bid procedure established by the city through the issuance of an invitation to bid, request for proposals, request for qualifications, or request for letters of interest.
 - (3) **Cash equivalent** means the amount of money paid to an employee with a domestic partner in lieu of providing benefits to the employee's domestic partner. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse.

The cash equivalents of the following benefits apply:

- a. For bereavement leave, cash payment for the number of days that would be allowed as paid time off for the death of a spouse. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
 - b. For health benefits, the cost to the contractor of the contractor's share of the single monthly premiums that are being paid for the domestic partner employee, to be paid on a regular basis while the domestic partner employee maintains such insurance in force for himself or herself.
 - c. For family medical leave, cash payment for the number of days that would be allowed as time off for an employee to care for a spouse who has a serious health condition. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- (4) **Contract** means any written agreement, purchase order, standing order or similar instrument entered into pursuant to the award of a bid whereby the city is committed to expend or does expend funds in return for work, labor, professional services, consulting services, supplies, equipment, materials, construction, construction related services or any combination of the foregoing.
 - (5) **Contractor** means any person or persons, sole proprietorship, partnership, joint venture, corporation, or other form of doing business, that is awarded a bid and enters into a covered contract with the city, and which maintains five (5) or more full-time employees.
 - (6) **Covered contract** means a contract between the city and a contractor awarded subsequent to the date when this section becomes effective valued at over twenty thousand dollars (\$20,000).
 - (7) **Domestic partner** shall mean any two adults of the same or different sex, who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained

by the employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partner who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Key West pursuant to Chapter 38, Article V of the Key West Code of Ordinances.

- (8) ***Equal benefits*** mean the equality of benefits between employees with spouses and employees with domestic partners, and/or between spouses of employees and domestic partners of employees.
- (b) Equal benefits requirements.
- (1) Except where otherwise exempt or prohibited by law, a Contractor awarded a covered contract pursuant to a bid process shall provide benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses.
 - (2) All bid requests for covered contracts which are issued on or after the effective date of this section shall include the requirement to provide equal benefits in the procurement specifications in accordance with this section.
 - (3) The city shall not enter into any covered contract unless the contractor certifies that such contractor does not discriminate in the provision of benefits between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees.
 - (4) Such certification shall be in writing and shall be signed by an authorized officer of the contractor and delivered, along with a description of the contractor's employee benefits plan, to the city's procurement director prior to entering into such covered contract.
 - (5) The city manager or his/her designee shall reject a contractor's certification of compliance if he/she determines that such contractor discriminates in the provision of benefits or if the city manager or designee determines that the certification was created, or is being used for the purpose of evading the requirements of this section.
 - (6) The contractor shall provide the city manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the city manager has received a complaint or has reason to believe the contractor may not be in compliance with the provisions of this section. This shall include but not be limited to providing the city manager or his/her designee with certified copies of all of the contractor's records pertaining to its benefits policies and its employment policies and practices.

- (7) The contractor may not set up or use its contracting entity for the purpose of evading the requirements imposed by this section.
- (c) Mandatory contract provisions pertaining to equal benefits. Unless otherwise exempt, every covered contract shall contain language that obligates the contractor to comply with the applicable provisions of this section. The language shall include provisions for the following:
- (1) During the performance of the covered contract, the contractor certifies and represents that it will comply with this section.
 - (2) The failure of the contractor to comply with this section will be deemed to be a material breach of the covered contract.
 - (3) If the contractor fails to comply with this section, the city may terminate the covered contract and all monies due or to become due under the covered contract may be retained by the city. The city may also pursue any and all other remedies at law or in equity for any breach.
 - (4) If the city manager or his designee determines that a contractor has set up or used its contracting entity for the purpose of evading the requirements of this section, the city may terminate the covered contract.
- (d) Enforcement. If the contractor fails to comply with the provisions of this section:
- (1) The failure to comply may be deemed to be a material breach of the covered contract; or
 - (2) The city may terminate the covered contract; or
 - (3) Monies due or to become due under the covered contract may be retained by the city until compliance is achieved; or
 - (4) The city may also pursue any and all other remedies at law or in equity for any breach;
 - (5) Failure to comply with this section may also subject contractor to the procedures set forth in Division 5 of this article, entitled "Debarment of contractors from city work."
- (e) Exceptions and waivers.

The provisions of this section shall not apply where:

- (1) The contractor does not provide benefits to employees' spouses.
- (2) The contractor is a religious organization, association, society or any non-profit charitable or educational institution or organization operated, supervised or controlled by or in conjunction with a religious organization, association or society.
- (3) The contractor is a governmental entity.
- (4) The sale or lease of city property.
- (5) The provision of this section would violate grant requirement, the laws, rules or regulations of federal or state law (for example, The acquisition services

procured pursuant to Chapter 287.055, Florida Statutes known as the "Consultants' Competitive Negotiation Act").

(6) Provided that the contractor does not discriminate in the provision of benefits, a contractor may also comply with this section by providing an employee with the cash equivalent of such benefits, if the city manager or his/her designee determines that either:

a. The contractor has made a reasonable yet unsuccessful effort to provide equal benefits. The contractor shall provide the city manager or his/her designee with sufficient proof of such inability to provide such benefit or benefits which shall include the measures taken to provide such benefits or benefits and the cash equivalent proposed, along with its certificate of compliance, as is required under this section.

(7) The city commission waives compliance of this section in the best interest of the city, including but not limited to the following circumstances:

- a. The covered contract is necessary to respond to an emergency.
- b. Where only one bid response is received.
- c. Where more than one bid response is received, but the bids demonstrate that none of the bidders can comply with the requirements of this section.

(f) City's authority to cancel contract. Nothing in this section shall be construed to limit the city's authority to cancel or terminate a contract, deny or withdraw approval to perform a subcontract or provide supplies, issue a non-responsibility finding, issue a non-responsiveness finding, deny a person or entity prequalification, or otherwise deny a person or entity city business.

(g) Timing of application. This section shall be applicable only to covered contracts awarded pursuant to bids which are after the date when this section becomes effective.

**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. 12-005 for
General Engineering Services

2. This sworn statement is submitted by URS Corporation Southern
(Name of entity submitting sworn statement)

whose business address is 7650 Corporate Center Drive, Suite 400
Miami, FL 33126 and (if applicable) its Federal
Employer Identification Number (FEIN) is 59-2087895 (If the entity has no FEIN,
include the Social Security Number of the individual signing this sworn statement.)

3. My name is Carlos Garcia and my relationship to
(Please print name of individual signing)

the entity named above is Vice President, Office Manager.

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)
August 1, 2012
(Date)

STATE OF Florida

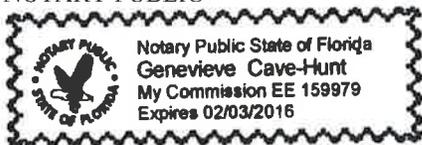
COUNTY OF Miami Dade

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

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

space provided above on this 30 day of July, 20 12

My commission expires:
NOTARY PUBLIC



[Signature]

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Licensee Details

Licensee Information

Name: **SHANMUGAM, RAJENDRAN (Primary Name)**
(DBA Name)
Main Address: **62 Gables Blvd**
WESTON Florida 333260000
County: **BROWARD**
License Mailing:
LicenseLocation:

License Information

License Type: **Professional Engineer**
Rank: **Prof Engineer**
License Number: **39626**
Status: **Current,Active**
Licensure Date: **03/18/1988**
Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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1940 North Monroe Street, Tallahassee FL 32399 :: Email: [Customer Contact Center](#) :: Customer Contact Center:
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Licensee Details

Licensee Information

Name: **GARCIA, CARLOS (Primary Name)**
 (DBA Name)

Main Address: **17920 N W 10th St**
PEMBROKE PINES Florida 330290000

County: **BROWARD**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Engineer**

Rank: **Prof Engineer**

License Number: **41908**

Status: **Current,Active**

Licensure Date: **08/28/1989**

Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **BARNES, JOAQUIN RICARDO (Primary Name)**
(DBA Name)

Main Address: **11313 NW 47 Lane**
MIAMI Florida 331780000

County: **DADE**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Engineer**

Rank: **Prof Engineer**

License Number: **57388**

Status: **Current,Active**

Licensure Date: **07/19/2001**

Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **SESSIONS, PAULA DIANE (Primary Name)**
(DBA Name)

Main Address: **URS CORPORATION**
7650 CORPORATE CENTER DRIVE
SUITE 401
MIAMI Florida 33126

County: **DADE**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Geologist**

Rank: **PG**

License Number: **PG1416**

Status: **Current,Active**

Licensure Date: **09/17/1992**

Expires: **07/31/2012**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **GARCIA, JUAN CARLOS (Primary Name)**
 (DBA Name)

Main Address: **14941 SW 150 Street**
MIAMI Florida 331960000

County: **DADE**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Engineer**

Rank: **Prof Engineer**

License Number: **46597**

Status: **Current,Active**

Licensure Date: **04/06/1993**

Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **RICHTERKESSING, JESSE A (Primary Name)**
(DBA Name)
Main Address: **20400 SW 84 AVE.**
MIAMI Florida 331890000
County: **DADE**
License Mailing:
LicenseLocation:

License Information

License Type: **Professional Engineer**
Rank: **Prof Engineer**
License Number: **60230**
Status: **Current,Active**
Licensure Date: **06/23/2003**
Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **KING, JENN L (Primary Name)**
 (DBA Name)

Main Address: **2133 N. 19TH AVE**
HOLLYWOOD Florida 33020

County: **BROWARD**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Engineer**

Rank: **Prof Engineer**

License Number: **56874**

Status: **Current,Active**

Licensure Date: **02/15/2001**

Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **SANDOVAL, ANA M (Primary Name)**
(DBA Name)
Main Address: **18130 SW 82 AVENUE**
PALMETTO BAY Florida 33157
County: **DADE**
License Mailing:
LicenseLocation:

License Information

License Type: **Professional Engineer**
Rank: **Prof Engineer**
License Number: **60247**
Status: **Current,Active**
Licensure Date: **06/23/2003**
Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name:	ARRIETA, JOHN FREDERIC (Primary Name) (DBA Name)
Main Address:	1525 VIA DE PEPI BOYNTON BEACH Florida 33426
License Mailing:	1525 VIA DE PEPI BOYNTON BEACH FL 33426
LicenseLocation:	

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	61370
Status:	Current,Active
Licensure Date:	05/24/2004
Expires:	02/28/2013

Special Qualifications	Qualification Effective
Civil	05/24/2004

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Licensee Details

Licensee Information

Name: **SANTIAGO, JAMES (Primary Name)**
(DBA Name)

Main Address: **612 NE 14TH AVE.
APT. A
FT LAUDERDALE Florida 33304**

County: **BROWARD**

License Mailing:

LicenseLocation:

License Information

License Type: **Registered Landscape Architect**

Rank: **Landscape Arc**

License Number: **LA0000795**

Status: **Current,Active**

Licensure Date: **04/15/1982**

Expires: **11/30/2013**

Special Qualifications **Qualification Effective**
Mangrove Trimmer

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Licensee Details

Licensee Information

Name: **KAMATH, VIVEK SANJIV (Primary Name)**
 (DBA Name)

Main Address: **9554 Newport Road**
BOCA RATON Florida 334342849

County: **PALM BEACH**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Engineer**

Rank: **Prof Engineer**

License Number: **42618**

Status: **Current,Active**

Licensure Date: **02/22/1990**

Expires: **02/28/2013**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **GARCIA, CARLOS F (Primary Name)**
 (DBA Name)

Main Address: **443 BLUE RD**
CORAL GABLES Florida 331462103

County: **DADE**

License Mailing:

LicenseLocation:

License Information

License Type: **Professional Geologist**

Rank: **PG**

License Number: **PG853**

Status: **Current,Active**

Licensure Date: **01/04/1989**

Expires: **07/31/2014**

Special Qualifications **Qualification Effective**

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Licensee Details

Licensee Information

Name: **SMITH, LUIS EDUARDO (Primary Name)**
 (DBA Name)

Main Address: **7800 CONGRESS AVENUE SUITE 200**
BOCA RATON Florida 33487

County: **PALM BEACH**

License Mailing:

LicenseLocation:

License Information

License Type: **Mold Assessor**

Rank: **Mold Assr**

License Number: **MRSA2144**

Status: **Current,Active**

Licensure Date: **10/19/2011**

Expires: **07/31/2014**

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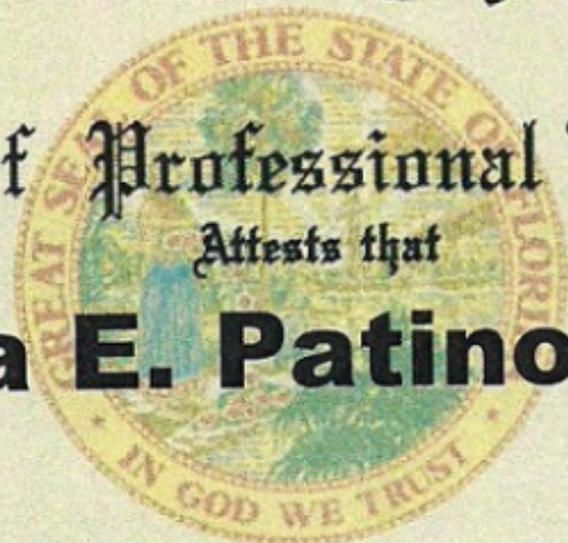
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State of Florida

Board of Professional Engineers

Attests that

Myra E. Patino, P.E.



IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013

P.E. LIC. NO:

AUDIT NO: 228201327717

56804

State of Florida

Board of Professional Engineers

Attests that

Juan S. Calderon, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES

EXPIRATION: 2/28/2013

P.E. LIC. NO:

AUDIT NO: 228201304281

58569

State of Florida
Board of Professional Engineers



Frederick Herman Hildebrandt, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES

EXPIRATION: 2/28/2013

AUDIT NO: 228201318720

P.E. LIC. NO:

36810

The American Institute of Certified Planners

The Professional Institute of the American Planning Association

hereby qualifies

Jerry Hamilton Bell

as a member
with all the benefits
of a Certified Planner and
responsibility to the
AICP Code of Ethics
and Professional Conduct.

Certified Planner Number: 013685

July 1, 1998

Daniel Lauber

PRESIDENT

Paul Fan

EXECUTIVE DIRECTOR



THE AMERICAN INSTITUTE OF
CERTIFIED PLANNERS

ALEX A. DAVID

Has qualified as a

Member

with all benefits of a Certified Planner and responsibility to the
AICP Code of Ethics and Professional Conduct.

Membership Certificate Number 015953

July 1, 2000

Oliver Kunkel

President

Paul Fan

Executive Director

State of Florida

Department of State

I certify from the records of this office that URS CORPORATION SOUTHERN is a corporation organized under the laws of California, authorized to transact business in the State of Florida, qualified on April 9, 1981.

The document number of this corporation is 848780.

I further certify that said corporation has paid all fees due this office through December 31, 2012, that its most recent annual report was filed on January 3, 2012, and its status is active.

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

Given under my hand and the Great Seal of Florida, at Tallahassee, the Capital, this the Fifth day of January, 2012



Secretary of State



Authentication ID: 500216546085-010512-848780

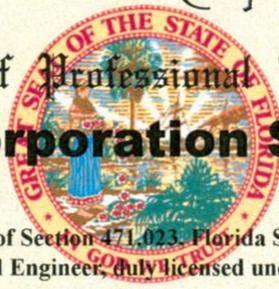
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State of Florida

Board of Professional Engineers

URS Corporation Southern



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: 228201300801

CA. LIC. No:

2

AC# 5372083

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN

SEQ# L10120801051

DATE	BATCH NUMBER	LICENSE NBR
12/08/2010	100257155	AAC000901

The ARCHITECT CORPORATION
Named below IS CERTIFIED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2013

URS CORPORATION SOUTHERN
600 MONTGOMERY ST
25TH FLOOR
SAN FRANCISCO CA 94111

CHARLIE CRIST
GOVERNOR

CHARLIE LIEM
SECRETARY

DISPLAY AS REQUIRED BY LAW

AC# 5712462

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

SEQ# L11083001932

DATE	BATCH NUMBER	LICENSE NBR
08/30/2011	118029348	LCC000234

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

URS CORPORATION SOUTHERN
600 MONTGOMERY ST
25TH FLOOR
SAN FRANCISCO CA 94111

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

AC# 6112076

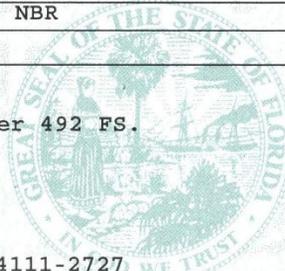
STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

SEQ# L12042700838

DATE	BATCH NUMBER	LICENSE NBR
04/27/2012	118178949	GB327

The GEOLOGY BUSINESS
Named below IS CERTIFIED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2014



URS CORPORATION SOUTHERN
600 MONTGOMERY ST
25TH FLOOR
SAN FRANCISCO

CA 94111-2727

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

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

2011 LOCAL BUSINESS TAX RECEIPT 2012
MIAMI-DADE COUNTY - STATE OF FLORIDA
EXPIRES SEPT. 30, 2012
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. 2

THIS IS NOT A BILL - DO NOT PAY

107165-3
BUSINESS NAME / LOCATION
URS CORPORATION SOUTHERN
7650 NW 19 ST
33126 UNIN DADE COUNTY

RENEWAL
RECEIPT NO. 107165-3
STATE# EB000002
400

OWNER
URS CORPORATION SOUTHERN
Sec. Type of Business
212 P.A./CORP/PARTNERSHIP/FIRM

EMPLOYEE/S
1

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

URS CORPORATION SOUTHERN
IRWIN ROSENSTEIN PRES
7650 CORPORATE CENTER DR #400
MIAMI FL 33126

PAYMENT RECEIVED
MIAMI-DADE COUNTY TAX
COLLECTOR:

09/08/2011
60020000017
000075.00

1818

SEE OTHER SIDE

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

2011 LOCAL BUSINESS TAX RECEIPT 2012
MIAMI-DADE COUNTY - STATE OF FLORIDA
EXPIRES SEPT. 30, 2012
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PURSUANT TO COUNTY CODE CHAPTER 8A - ART. 9 & 10

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U.S. POSTAGE
PAID
MIAMI, FL
PERMIT NO. 231

687652-9

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NEW

BUSINESS NAME / LOCATION
CALTRAN ENGINEERING GROUP INC
1400 NW 107 AVE
33172 SWEETWATER

RECEIPT NO. 715153-3
STATE# CA29379
209

OWNER
CALTRAN ENGINEERING GROUP INC

Sec. Type of Business
212 P.A./CORP/PARTNERSHIP/FIRM

EMPLOYEE/S
7

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TIONS.

DO NOT FORWARD

CALTRAN ENGINEERING GROUP INC
CRISTINA CALDERON PRES
1400 NW 107 AVE 209
SWEETWATER FL 33172

PAYMENT RECEIVED
MIAMI-DADE COUNTY TAX
COLLECTOR:

09/27/2011
02260018001
000045.00

569

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

2011 LOCAL BUSINESS TAX RECEIPT 2012
MIAMI-DADE COUNTY - STATE OF FLORIDA
EXPIRES SEPT. 30, 2012
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

687653-7

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NEW

BUSINESS NAME / LOCATION
CALDERON JUAN PE
1400 NW 107 AVE
33172 SWEETWATER

RECEIPT NO. 715154-1
STATE# PE58569
209

OWNER
CALDERON JUAN PE

Sec. Type of Business
212 PROFESSIONAL

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COUNTY OR CITIES. NOR
DOES IT EXEMPT THE
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PERMIT OR LICENSE
REQUIRED BY LAW. THIS IS
NOT A CERTIFICATION OF
THE HOLDER'S QUALIFICA-
TIONS.

DO NOT FORWARD

CALDERON JUAN PE
CALTRAN ENGINEERING GROUP INC
1400 NW 107 AVE 209
SWEETWATER FL 33172

PAYMENT RECEIVED
MIAMI-DADE COUNTY TAX
COLLECTOR:

09/27/2011
02260018002
000060.00

562

SEE OTHER SIDE

CITY OF SWEETWATER
500 SW 109TH AVE
SWEETWATER FL 33174
BUSINESS TAX DEPARTMENT

PENALTY IS IMPOSED FOR FAILURE TO KEEP
THIS RECEIPT DISPLAYED CONSPICUOUSLY

BT003553

Business Tax Receipt

BEGINNING: 10/01/2011 AND ENDING: 09/30/2012

JUAN S. CALDERON
1400 NW 107 AVE. #209
Sweetwater FL 33172

LICENSE NO: 000063651110

JUAN S. CALDERON
(786) 456-7700

ITEM	DESCRIPTION
00052	ENGINEER
00998	ZONING INSPECTOR APPROVAL

JUAN S. CALDERON
CALTRAN ENGINEERING GROUP, INC.
1400 NW 107 AVE. #209
Sweetwater FL 33172

CITY OF SWEETWATER
500 SW 109TH AVE
SWEETWATER FL 33174
BUSINESS TAX DEPARTMENT

PENALTY IS IMPOSED FOR FAILURE TO KEEP
THIS RECEIPT DISPLAYED CONSPICUOUSLY

BT003552

Business Tax Receipt

BEGINNING: 10/01/2011 AND ENDING: 09/30/2012

CALTRAN ENGINEERING GROUP, INC.
1400 NW 107 AVE. #209
Sweetwater FL 33172

LICENSE NO: 000063641110

JUAN S. CALDERON
(786) 499-5093

ITEM	DESCRIPTION
00072	ADMINISTRATIVE OFFICE
00998	ZONING INSPECTOR APPROVAL

CALTRAN ENGINEERING GROUP, INC.
ADMINISTRATIVE OFFICE
1400 NW 107 AVE. #209
Sweetwater FL 33172



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

May 24, 2012

JUAN S CALDERON
CALTRAN ENGINEERING GROUP INC
1400 NW 107TH AVE STE 209
MIAMI FL 33172

ANNIVERSARY DATE - Annually on May 24

Dear Ms. Calderon:

The Florida Department of Transportation (FDOT) is pleased to announce that your firm has been certified under Florida's Unified Certification Program (UCP) as a Disadvantaged Business Enterprise (DBE) **in accordance with 49 Code of Federal Regulation Part 26.**

DBE Certification is continuing, but it is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the Anniversary Date. You must submit the annual AFFIDAVIT FOR CONTINUING ELIGIBILITY **no later than the Anniversary Date.**

Only firms listed in the UCP DBE Directory are certified by Florida UCP Members. Prime contractors and consultants should verify your firm's DBE certification status, **and identify the work area(s) for which the firm is DBE eligible, through this Directory.**

Your firm will be listed in Florida's UCP DBE Directory which can be accessed through the Department's website: www.dot.state.fl.us/equalopportunityoffice and then selecting "DBE Directory".

DBE certification is **NOT** a guarantee of work. It allows your firm to compete for and perform contract work on ALL USDOT Federal Aid (FAA, FTA, and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

If, at any time there is a material change you must advise this office, by sworn affidavit and supporting documents, within thirty (30) days. Changes include, but are not limited to, ownership, officers, directors, management, key personnel, scope of work performed, daily operations, ongoing business relationships with other firms or individuals, or the physical location of your firm. After our review, you will receive instructions as to how you should proceed, if necessary. Failure to do so will

be deemed a failure, on your part, to cooperate, and will result in immediate action to remove DBE certification.

Your firm is eligible to compete for and perform work on all USDOT Federal Aid projects throughout Florida and may earn DBE credit for work performed in the following areas:

NAICS

54133 -Engineering Services
54134 -Drafting Services
54169 -Other Scientific and Technical Consulting Services
54199 -All Other Professional, Scientific, and Technical Services

FDOT Specialty Codes

300 -Consultants
941 -Civil Engineering Services
947 -Cadd Services
949 -Traffic Data Services

Questions and concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our fax number is (850) 414-4879.

Sincerely,



Victoria Smith
DBE Certification Manager

CITY OF KEY WEST, FLORIDA

Business Tax Receipt

This Document is a business tax receipt
Holder must meet all City zoning and use provisions.
P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name HILDEBRANDT, F.H. (ENGINEER) CtlNbr:0004844
Location Addr 3152 NORTHSIDE DR
Lic NBR/Class 11-00021976 SERVICE - PROFESSIONAL
Issue Date: January 26, 2011 Expiration Date: September 30, 2011
License Fee \$387.18
Add. Charges \$0.00
Penalty \$77.43
Total \$387.18
Comments: ENGINEER

This document must be prominently displayed.

HILDEBRANDT, F.H.

HILDEBRANDT, F.H. (ENGINEER)
3152 NORTHSIDE DR

KEY WEST FL 33040

Oper: CRAWLER Type: OC Drawer: 1
Date: 1/26/11 51 Receipt no: 35163
2011 21976
DR LIC OCCUPATIO 1 \$387.18
Trans number: 2585873
DR CHECK 2803 \$387.18

Trans date: 1/26/11

CITY OF KEY WEST, FLORIDA

Business Tax Receipt

This Document is a business tax receipt
Holder must meet all City zoning and use provisions.
P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name HILDEBRANDT, F.H. (SURVEYOR) CtlNbr:0004840
Location Addr 3152 NORTHSIDE DR
Lic NBR/Class 10-00021975 SERVICE - PROFESSIONAL
Issue Date: November 24, 2009 Expiration Date: September 30, 2010
License Fee \$356.21
Add. Charges \$0.00
Penalty \$46.46
Total \$356.21
Comments: SURVEYOR

This document must be prominently displayed.

HILDEBRANDT, F.H.

HILDEBRANDT, F.H. (SURVEYOR)
3152 NORTHSIDE DR

KEY WEST FL 33040

Oper: CRAWLER Type: OC Drawer: 1
Date: 11/24/09 Receipt no: 10-00021975
2009 21975
DR LIC OCCUPATIO 1 \$356.21
Trans number: 2585873
DR CHECK 2803 \$356.21

Trans date: 11/24/09



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

License No.: **LB7700**

Expiration Date: February 28, 2013

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

**ISLAND SURVEYING INC
3152 NORTHSIDE DRIVE
KEY WEST, FL 33040**

A handwritten signature in cursive script, reading "Adam H. Putnam".

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

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

State of Florida

Department of State

I certify from the records of this office that BELL DAVID PLANNING GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on February 5, 2003.

The document number of this corporation is P03000014051.

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 April 29, 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 May, 2011*



Secretary of State



Authentication ID: 900207313469-050611-P03000014051

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

<https://efile.sunbiz.org/certauthver.html>



City of North Miami

776 N.E. 125 Street ♦ North Miami, FL 33161 ♦ 305-893-6511

Business Tax Receipts

Issued Date: 5/5/2011

Expiration Date: 9/30/2011

Business Tax Receipt #: BT-003665

PLANNING AND ZONING CONSULTING FIRM

BELL DAVID PLANNING GROUP, INC.
BELL DAVID PLANNING GROUP
774 NE 126 ST
1
NORTH MIAMI, FL 33161

Business Name / Address:

BELL DAVID PLANNING GROUP
774 NE 126 ST, 1
NORTH MIAMI, FL 33161

Jacqui Vieira, CMC
City Clerk

**NOTICE: BUSINESS TAX RECEIPT MUST BE
TRANSFERED WHEN BUSINESS IS MOVED
OR SOLD.**

NON-TRANSFERABLE ♦ POST IN A CONSPICUOUS PLACE ♦ NON-TRANSFERABLE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
06/06/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER MARSH RISK & INSURANCE SERVICES 345 CALIFORNIA STREET, SUITE 1300 CALIFORNIA LICENSE NO. 0437153 SAN FRANCISCO, CA 94104	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL: ADDRESS:		FAX (A/C, No):																				
	<table border="1"> <thead> <tr> <th colspan="2">INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : National Union Fire Ins Co Pittsburgh PA</td> <td></td> <td>19445100</td> </tr> <tr> <td>INSURER B : Zurich American Insurance Company</td> <td></td> <td>16535100</td> </tr> <tr> <td>INSURER C : Illinois National Ins Co</td> <td></td> <td>23817001</td> </tr> <tr> <td>INSURER D : Insurance Company Of The State Of PA</td> <td></td> <td>19429100</td> </tr> <tr> <td>INSURER E : N/A</td> <td></td> <td>N/A</td> </tr> <tr> <td>INSURER F : N/A</td> <td></td> <td>N/A</td> </tr> </tbody> </table>			INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A : National Union Fire Ins Co Pittsburgh PA		19445100	INSURER B : Zurich American Insurance Company		16535100	INSURER C : Illinois National Ins Co		23817001	INSURER D : Insurance Company Of The State Of PA		19429100	INSURER E : N/A		N/A	INSURER F : N/A	
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INSURER E : N/A		N/A																					
INSURER F : N/A		N/A																					
URSCOR-ALL-PROF-12-13 Fra CA Eviden Added																							
INSURED URS Corporation 600 Montgomery Street, 26th Floor San Francisco, CA 94111																							

COVERAGES **CERTIFICATE NUMBER:** SEA-002253661-39 **REVISION NUMBER:** 81

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> XCU, BFPD <input checked="" type="checkbox"/> Contractual Liability GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC			GL4870829	05/01/2011	09/01/2012	EACH OCCURRENCE	\$ 2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 2,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			BAP938521502	05/01/2011	09/01/2012	COMBINED SINGLE LIMIT (Ea accident)	\$ 2,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB DED RETENTION \$						EACH OCCURRENCE	\$
							AGGREGATE	\$
								\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			SEE ATTACHED - ACORD 101	01/01/2012	01/01/2013	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	
D				SEE ATTACHED - ACORD 101	01/01/2012	01/01/2013	E.L. EACH ACCIDENT	\$ 2,000,000
C				SEE ATTACHED - ACORD 101	01/01/2012	01/01/2013	E.L. DISEASE - EA EMPLOYEE	\$ 2,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 Evidence of Insurance

CERTIFICATE HOLDER Specimen	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE of Marsh Risk & Insurance Services Lynne Harrington <i>Lynne Harrington</i>

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AGENCY CUSTOMER ID: URSCOR
LOC #: San Francisco



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY MARSH RISK & INSURANCE SERVICES		NAMED INSURED URS Corporation 600 Montgomery Street, 26th Floor San Francisco, CA 94111	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

The Workers' Compensation coverage shown does not apply in monopolistic states. In the States of ND, OH, WA and WY Workers' Compensation coverage is provided by the State Fund. In those States, the above-referenced policies provide Stop-Gap Employers' Liability only. Workers Compensation policies apply as indicated below:

Insurer A: National Union Fire Ins Co Pittsburgh, PA NAIC# 19445100
WC 021417576 - CA

Insurer D: Insurance Company Of The State Of PA NAIC# 19429100
WC 021417580 - MA, WI (Stop Gap - ND, OH, WA, WY)
WC 021417581 - AK, AL, AR, AZ, CO, DE, GA, ID, KS, KY, MD, ME, MO, MS, MT, NC, NH, NM, NV, OK, OR, PA, RI, SC, SD, TN, UT, VA, VT, WV
WC 021417585 - MN
WC 021417578 - NY

Insurer C: Illinois National Ins Co NAIC# 23817001
WC 021417577 - FL
WC 021417582 - CT, DC, HI, IA, IL, IN, LA, MI, NE, NJ
WC 021417579 - TX



Marsh Risk & Insurance Services
345 California Street, Suite 1300
San Francisco, CA 94104-2679
California Insurance License #0437153
888-769-3873
urs.renewalcerts@marsh.com
www.marsh.com

May 30, 2012

To Whom It May Concern:

Attached is a Certificate of Insurance which provides evidence of the current insurance policies for the URS Corporation insurance program extension from 6/1/2012 to 9/1/2012. Marsh will issue another Certificate of Insurance evidencing insurance coverage for the 9/1/2012 to 9/1/2013 renewal period in the near future.

If you have any questions, please do not hesitate to contact us between 7AM – 6PM (PST) at the following:

Telephone: 1-888-769-3873

E-Mail: urs.renewalcerts@marsh.com

Sincerely:

Marsh Certificate Team



THE CITY OF KEY WEST

3140 Flagler Ave
Key West, FL 33040

ADDENDUM NO. 1 RFQ NO. 12-005: GENERAL ENGINEERING SERVICES July 19, 2012

This addendum is issued as supplemental information to the RFQ package for clarification of certain matters of both a general and a technical nature. The referenced RFQ package is hereby addended in accordance with the following items:

1. Page 4 lists that a firm may submit for 1 or more of 5 the categories. Please confirm that we can submit for all 5 categories in one submittal package (2 copies + cds, etc), and we do not need to submit one package for each category (ie 5 sets of packages).

Only one proposal package is to be submitted which identifies any one of, or all of the various disciplines listed in the RFQ that the Proposer is proposing services for.

2. Is submittal of an SF330 sufficient?

Use of SF330 form is not required. Proposer shall submit a complete qualifications package in a format that contains all required elements.

3. Does the city have an MBE goal?

No.

4. Are we to include subcontractors in our RFQ or can we add them based on the particular task order?

Proposers shall identify each subconsultant that they are proposing using as part of this contract. City approval would be required if Proposer wishes to make changes or adds to the list of subconsultants once contract is issued. The qualifications of all members of a Proposer's team will be considered in the selection process.

5. On page 6 of the RFQ, License Requirements, it states that the winning respondent will also be required to obtain and maintain a City of Key West Business Tax Receipt. Could you please clarify if this means that the winning firm must have an office location in Key West?

Firms selected as part of this contract are not required to maintain an office in Key West.

6. Public Entity Crimes Certification was identified as being three (3) pages in length.

Public Entity Crimes Certification is two (2) pages in length

7. Under the Submission Details section on page 5 reference is made to “Architect firms should submit a complete qualifications package that includes:”

This should read “Engineering firms should submit a complete qualifications package that includes:”

8. Is a page limit for the submission information listed on page 5?

No. However firms should limit their proposals to a reasonable number of pages.

9. Who are the current contract holders?

The City does not track this information. Proposer can contact DemandStar by Onvia at www.demandstar.com/supplier or call toll-free 1-800-711-1712.

10. How much was spent under the current contract, and on what kind of projects?

This information is unavailable. Proposers are reminded that no minimum amount of service or compensation will be assured to the retained firm(s).

11. The existing language under Qualifications Criteria:

“Other certifications including LEED and LAP (Federal DOT) certified staff professionals”

Shall be modified to read:

“Other certifications including LEED and FDOT certified staff professionals”

12. Please clarify the submittal requirements for “Past five (5) years of specific relevant experience” under the Submission Detail section.

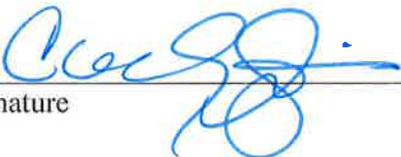
The existing language

Past five (5) years of specific relevant experience. The examples should include the name of client, client’s representative, client’s address and telephone number, key personnel involved in design phase services, design services fee, estimate of construction cost, name of contractor awarded project contract award amount, contractor’s representative, contractor’s address and telephone number.

Shall be modified to read:

Past five (5) years of specific relevant experience. The examples should include the project description, name of client, client's contact and telephone number, design services fee, identify if project was constructed or not and project cost, name of contractor awarded project, and contractor's representative and telephone number.

All Proposers shall acknowledge receipt and acceptance of this Addendum No. 1 by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.



Signature



Name of Business