

Michael L. Irwin, PE

Senior Project Engineer, Project Manager

Mr. Irwin has over 23 years of professional experience, 12 of which were spent with Florida's Department of Transportation as a construction Project, Resident, and District Construction Engineer. He offers extensive experience in construction management and techniques related to public roadway and bridge construction programs. Mr. Irwin has extensive experience in partnering, leading FDOT District 7 in its first partnering efforts. In addition to his experience in program management, he has comprehensive bridge construction experience.

Mr. Irwin has served in the role of Senior Project Engineer and Resident Engineer on major DOT complex category bridge construction projects including I-95/PBIA Segmental Bridges, US 19/Countryside Limited Access Conversion Segmental Bridge and I-275/4th Street Segmental Bridge Fly-over structure. In addition, he performed Resident duties for major complex conventional concrete and steel box girder bridges including Howard Frankland Bridge over Tampa Bay/Florida Bulb-T Post Tensioned Structure and I-95 at Okeechobee Boulevard/Fly-Over Steel Box Girder Structure. In total, Mr. Irwin has over 14 years of relevant field engineering experience in construction of Florida's complex category bridge structures which includes 9 years of experience on complex post tensioned concrete structures with 6 years of segmental and 5 years of complex steel bridge construction.

Registration:

Professional Engineer

- ***Florida # 38671***
- ***Alabama # 18078***
- ***Georgia # 23888***

Education:

- ***BS, 1983, Civil Engineering, Auburn University***

Certifications

- ***CTQP Construction QC Manager Course***
- ***CTQP Grouting Technician – Level I***
- ***Grouting Training/ American Segmental Bridge Institute***
- ***ATSSA Florida Advanced MOT***
- ***Superpave Training/ FDOT/Asphalt Contractors Association of Florida***
- ***OSHA 29 CFR Construction Standards***

23 Years Experience

- **07/03 – Present, Senior Project Engineer / Regional Director in South Florida for TBE Group, Inc.'s Construction Management Division.** Service includes Senior Project Engineer for the management of the Department's SR 80 Corridor Projects grouped in the Mobility 2000 Initiative. These projects span a length of 20 miles on the SR 80 corridor at a construction cost of approximately 150 million dollars. The Corridor projects include major multilane reconstruction from 4 to 8 lane-divided with the conversion of SR 80 to a limited access facility with construction of interchange structures and ramps at each major intersection. Structures include 4, eight lane, complex steel bridges and 4 minor concrete and steel girder bridges. FDOT Reference: Scott Burrie (561) 432-4966
- **08/99 – 07/03, I-95/PBIA Interchange, West Palm Beach, FL.** Project Manager and Senior Project Engineer for construction of the \$110M Interstate expansion project which connects I-95 to the Palm Beach International Airport. This project included: approximately 2 miles of Interstate reconstruction and resurfacing; complex concrete segmental bridge construction (balanced cantilever erection and pre-cast) including 1564 segments; 14 bridges (both segmental and steel plate girder); MSE walls (50 ea, 33,264m²); sound walls; drainage; earthwork; electrical/lighting; signalization, landscaping; utility relocations.

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The PBIA Connector project required a tremendous amount of MOT Coordination; public information involvement; coordination with the airport and local municipalities, and technical supervision. The project was the recipient of the 2005 ASBI "Segmental Bridge of the Year" Award. FDOT Reference: Thomas Driscoll, PE (561) 432-4966.

- **06/97 – 12/02, I-95 Expansion Projects; West Palm Beach, FL.** CEI Senior Project Engineer for a \$65 million interstate rehabilitation and expansion program. Specific duties included management of the construction engineering and inspection services for a 13-kilometer-long segment of Interstate reconstruction in West Palm Beach from Okeechobee Blvd. to North Lake Blvd. Unique project features included: construction of a complex category, high level, steel box flyover structure at I-95 and Okeechobee Boulevard; implementation of complex multi-phase maintenance of traffic (MOT) plans; construction of high-level MSE Walls for bridge approaches; phased construction for a major conventional concrete bridge structure over the Interstate; and reconstruction of over 60 lane-miles of interstate facilities in Palm Beach County. Significant residents and businesses in close proximity to the project necessitated proactive public involvement. FDOT Reference: Jacques Beaubrun (561) 432-4966.

- **08/91 – 05/97, Florida Department of Transportation District Construction Engineer, District Seven.** District Construction Engineer for the 5 County area of FDOT District Seven that includes Tampa, Clearwater and St. Petersburg. Duties included management of all construction projects and an in-house and consultant staff of over 200 employees performing the duties of project planning and review, construction cost estimating and scheduling, construction QA inspection, project management and Public Information. Specific responsibilities included leading and developing the construction staff to accomplish Departmental objectives including minimizing contract time extensions and cost overruns. Methods utilized for success included the hiring, development and direction of qualified staff and maintaining an effective reporting system for project costs and tracking.

In addition, a significant requirement of service was to establish working relationships with representatives of local municipalities throughout the District. Annual letting schedules exceeded \$100 million per year with peak volumes of over \$300 million. Therefore, the success of the program required effective working relationships with local representatives to ensure all local agreements were followed and construction progress was not impaired. In addition, through an effective community awareness program, construction issues and impacts were responded to and resolved before getting media attention.

- **09/87 – 08/91, Florida Department of Transportation Construction Resident Engineer and Construction Program Manager, District Seven.** Engineer in Responsible Charge for all construction projects in a geographical area of FDOT District 7 that included Clearwater, St. Petersburg and Tampa Bay. Responsibilities included selection and supervision of QA inspection staff assigned to the FDOT Resident office. Resident Engineer duties included problem resolution and management of CEI operations for in-house and consultant inspected projects. Program Manager duties included the development of the CEI work program, coordinating construction bids to establish the consultant acquisition schedules, and development of the consultant contract scope of services.

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FDOT Resident Engineer service included performing as Engineer in Responsible Charge of the following major projects:

Howard Frankland Bridge Replacement (89-91): Construction of a complex, 3 mile multi-lane Interstate Bridge Structure. The structure utilized the “then new” Florida Bulb-T Beams in 4- span, post-tensioned units connecting Tampa to Clearwater across the Tampa Bay. This major structure included detailed coordination with FDOT designers, Larry Sessions and William Nickas.

US-19 Limited Access Conversion and Segmental Bridge (87-90): Construction of a highly urbanized multi-lane facility, converting at-grade intersections to limited access interchanges with frontage roads. The major project feature was construction of a complex concrete, post-tensioned segmental bridge for the US-19 crossing over Countryside Boulevard and several complex steel girder and concrete post-tensioned girder type bridges.

I-275/4th Street Segmental Bridge (90-91): Construction of a complex segmental post-tensioned bridge on 4th Street in St. Petersburg crossing Interstate 275.

Sunshine Skyway Bridge Demolition and Artificial Reef Program (88-91): Removal of the old Skyway Bridges (approximately 6 miles) across the mouth and waters of Tampa Bay. The project required the utilization of both mechanical and chemical methods for removal. All material was surveyed, lifted onto barges, transported and deposited for the creation and expansion of several off-shore reefs in the Gulf of Mexico.

- **09/85 – 09/87, Roadway and Development Design Project Manager.** While with a former consultant, Mr. Irwin was responsible for design, scheduling, permitting and construction of roadway projects. Duties included supervision of a design team and project inspectors. Responsible for client contact and support and acquisition of all environmental and development permits for construction and preparation of specifications and bid packages.
- **06/83 – 09-85, Construction Project Engineer, Florida Department of Transportation, District Three and District Seven.** Graduate of the FDOT Engineering Training Program specializing in construction of Florida’s public transportation projects. Included in the duties were the management and supervision of contractor and construction QA inspection teams, and review, approval and tracking of the construction schedules and project cost. Significant duties were also reviewing contractor cost proposals for additional work and performing the construction engineer’s cost estimates for the basis of negotiations.