

MONTASSER “MONTY” SELIM

SUMMARY

Mr. Selim has over 35 years' experience in multimodal transportation planning and program management of infrastructure projects. His experience includes the development of multimodal transportation alternatives, and preliminary design projects. He has additional expertise in airport, rail and port facilities planning and design. Monty is adept at all aspects of road design from preliminary roadway geometrics to final interchange/intersection and roadway/freeway design, detailed cost estimates, development of maintenance of traffic plans and construction scheduling. Responsible for roadway engineering and design, including pavement drainage, signing and marking, maintenance of traffic and construction management. He has experience in roadway and bridge construction management with knowledge of OSHA safety requirements, review of contractor bondability and performance requirements, maintenance of all field records including contractor work efforts, scheduling and inventory of equipment and materials. Mr Selim expertise also covers port facilities, including the planning and design phases.

EDUCATION

Bachelor of Science of Cairo University - Civil Engineering

PROFESSIONAL ASSOCIATIONS

Registered by the Egyptian Engineering Syndicate, Cairo, Egypt

American Society of Civil Engineers, Member

PROFESSIONAL APPOINTMENTS

- Mayoral Appointee to the City of Jacksonville Renew Arlington CRA Board (2019 – Present)
- Mayoral Appointee to the City of Jacksonville Context Sensitive Design Committee (2013-Present)
- Mayoral Appointee to the City of Jacksonville Downtown Development Review Board (2007-2013)
- Mayor Peyton representative on JaxPort Transportation Infrastructure Needs Task Force (2007)
- Mayor Delaney representative on J. Turner Butler Corridor Improvements Task Force (2002)

CONTINUING EDUCATION

Courses and/certifications completed in the following:

- Graduate level courses in Engineering - University of Central Florida

CAREER HISTORY

FORCON International – Construction Consultant

Providing expertise on matters relating to Federal, State, City and Municipal infrastructure issues, including highway, sewer and water defaults.

Highlighted Key Projects:

- **Graham County Land Company – Surety: Great American Insurance**
 - SR 20: From US 301 to Putnam County Line - Alachua County, FL
Completed project construction from 60% complete to 100% Final Acceptance.
Project Description: Reconstruct existing two-lane roadway and widen to 4-lanes divided roadway, with curb-and-gutter and underground storm sewer, bicycle lanes and sidewalks. Project included the construction of two roadway bridge over Little Orange Creek. The roadway East of the bridge included the construction of a 10-foot-wide multi-use path. The project included the construction of 4 retention ponds and the restoration of the Little Orange Creek bed and water flow. Efforts to complete this project included the construction of the Eastbound 2-lanes including the roadway excavation, stabilization material and limerock base rolling and compaction ready for asphalt paving, curb and gutter, sidewalks, and a multi-use

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path, a wide median, turning lanes, retention ponds, seeding and grassing and Little Orange Creek-Bed Restoration, and the demolition of a large concrete box culvert where the Creek originally flowed, in addition to the excavation and removal of unsuitable materials.

- **Posen Construction – Surety: SAFECO**

- Summerlin Boulevard: From Cypress Lake Drive to Boy Scout Drive - Lee County, FL

Complete project construction from current 85% complete to 100% Final Acceptance.

Project Description: Widen existing 2.67 miles of 2-lane roadway to a 6-lanes divided roadway with underground storm sewer, bicycle lanes and sidewalks. Project included a bridge overpass over College Parkway. Efforts to complete this project included milling and resurfacing existing 2-lane roadway completed roadway paving, sidewalk construction, bridge painting, pavement marking and stripping, signage including overhead truss mounted bridge signs, adding Signals to 3 roadway intersections and roadway lighting.

- Colonial Boulevard CR 884, From: West of I-75 to SR 82 - Lee County, FL

Complete project construction from current 65% Complete to 100% Final Acceptance.

Project Description: This is a 2.6 Miles Roadway construction widening project to widen existing 2-lane roadway to a 6-lanes divided roadway with a grassed median and underground storm sewer section west of I-75 and roadway swale section to the east, bicycle lanes and sidewalks, a 500 foot new roadway bridge, project included a 4 acre wet detention pond with lateral shelf wetland preserve area. Efforts to complete this project included milling and resurfacing existing 2-lane roadway, completed roadway paving, sidewalk construction, pavement marking and stripping, signage including overhead truss mounted bridge signs, 4 signalized intersections and roadway lighting.

- SR 739 Metro, From: US 41 to CR 865 Six Mile Cypress Parkway - Lee County, FL

Complete project construction for current 20% complete to 100% Final Acceptance.

Project Description: This is a new 2.8 Mile Roadway construction connecting US 41 to Six Mile Cypress parkway to serve as a bypass of US 41 corridor the most congested area in south Lee County. The project was to construct a new 4-lanes divided roadway with a grassed median and a Bridge over Alico Road and Gulf Railroad Tracks the total roadway was 2.6 Miles with the Bridge 900-foot-long post tensioned bridge structure. Efforts to complete this project included complete roadway construction including paving, sidewalk construction, bridge construction and painting, pavement marking and stripping, signage including overhead truss mounted bridge signs, 3 signalized intersections were constructed as well as roadway lighting.

- **Empower Construction – Surety: Hanover**

- SR 500 from Mile Post 18.995 to Mile Post 22.865 (3.87 Miles) - Orange County, FL

Complete project construction for current 10% complete to 100% Final Acceptance.

Project Description: This is a Milling and Resurfacing project and adding paved shoulders for this 3.87 miles of existing 4-lanes divided roadway. Efforts to complete this project included complete milling and paving of existing roadway the construction of new paved shoulders, sidewalk, pavement marking and stripping, signage. The construction of transit Bus Stops including Bus bays and Bus Shelters concrete pads and associated signage.

- **Southern Development Corporation – Surety: Zurich**

- SR 9 A (I-295) at Commonwealth Avenue – Jacksonville, FL

Complete project construction for current 80% complete to 100% Final Acceptance.

Project Description: This is a Milling and Resurfacing of existing Interstate lanes, ramp widening, adding double left turning lanes and shoulder rehabilitation, also milling and resurfacing of Commonwealth Avenue from Pickettville Road to Suemac Road. Efforts to complete this project included complete milling and paving of existing roadway the construction of new paved shoulders, sidewalks, pavement marking and stripping, signage.

- SR 109 University Boulevard Drainage – Jacksonville, FL

Complete project construction for current 70% complete to 100% Final Acceptance.

Project Description: This is the construction of a large paved-lined ditch from University Boulevard to Parental Home Road. Effort to complete this project included major dewatering, excavation of existing ditch and the addition of ditch-liner seeding and grassing, fencing and signage.

- JEA (Jacksonville Utilities) Segment 4 Miscellaneous Roadways in Arlington Neighborhood – Jacksonville, FL

Complete project construction for current 70% complete to 100% Final Acceptance.

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Project Description: Install water and sewer lines, pump stations, and re-pave roadway. Effort to complete this project included complete the water and sewer lines installation, test pump station equipment, roadway re-paving, driveways restoration pavement marking, seeding, grassing and fencing.

- JEA (Jacksonville Utilities) Segment 6 Miscellaneous Roadway in Southside Neighborhood – Jacksonville, FL

Complete project construction for current 80% complete to 100% Final Acceptance.

Project Description: Install water and sewer lines, pump stations, and re-pave roadway. Effort to complete this project included complete the water and sewer lines installation, test pump station equipment, roadway re-paving, driveways restoration, pavement marking, seeding, grassing and fencing.

- **Douglass Asphalt Corporation – Surety:**

- US 1 From CR 108 in Hilliard to Florida/Georgia State Line - Nassau County, FL

Complete project construction for current 60% complete to 100% Final Acceptance.

Project Description: This is a Milling and Resurfacing project of 7.5 miles of existing 4-lane divided roadway. Efforts to complete this project included milling and paving of existing roadway the construction of new paved shoulders, sidewalks, pavement marking and stripping, signage.

- CR 121 From Baldwin to CR 108 - Nassau County, FL

Complete project construction for current 50% complete to 100% Final Acceptance.

Project Description: This is a Milling and Resurfacing project of 13.5 miles of existing 2-lane roadway. Efforts to complete this project included milling and paving of existing roadway the restoration of existing driveways, signage, pavement marking and stripping.

- Provided construction inspection and field investigations, for the new \$800,000 Daytona Beach Community College parking lot designed to accommodate 800 vehicles.
- Provided construction inspection and field investigations for Vernon County Elementary School, Vernon, New Jersey.
- Provided construction inspection and field investigations for U.S. 50 and Baltimore/Washington Parkway Interchange, bridge widening and deck replacement, of existing bridges and safety improvements, project involved steel stringer replacement. Maryland State Road Department.

Reynolds, Smith and Hills - February 1982 to September 2010; Various roles and responsibilities with RS&H (Top 100 AE ENR Rank) detailed below:

Jacksonville Program Management Leader RS&H 2007- September 2010

Responsible for Managing RS&H General Consultant Contracts with JEA (Jacksonville Public Utility), Jacksonville Port Authority, and the City of Jacksonville Better Jacksonville Plan. Responsibilities including managing office staff as well as field inspection staff. Negotiating work assignments scope and fees, preparing monthly staff utilization and monthly financial reports and backlog man-hour forecasts, ensuring timely monthly invoicing, as well as managing the field inspection truck fleet and maintaining client relationships

North Florida Office Business Development Leader RS&H 2005-2007

Responsible for identifying project pursuits for Transportation/Infrastructure Program, developing Teaming strategies, preparing proposals and statement of qualifications and Oral Presentations. Responsible for Winning projects with the City of Winston Salem North Carolina, South Carolina DOT, Georgia DOT and Chatham County, Liberty County MPO in Georgia. Project successes resulted in RS&H establishing a regional office in Atlanta, and a project office in Savannah Georgia.

Transportation Planning Discipline Leader RS&H 1998-2005

Responsible for developing the Transportation Planning services within the Florida offices. Also the expansion of the practice area to North Carolina, and Georgia. Including identifying project pursuits develop Team organization structures and winning strategies, hiring and recruiting planning staff, developing project management plans and quality assurance plans. Projects include Districtwide General Planning Consultant contracts with FDOT Districts, One, Three, Four, Six, as well as Central Office Systems Planning Consultant and North Florida Transportation Planning Organization

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Project Manager/Senior Project Manager RS&H 1982-1998

Responsible; for managing transportation planning projects throughout Florida. Including Districtwide General Planning Consultant contracts, highway corridor studies, multimodal interstate master plans, port and airport access studies.

Reynolds, Smith and Hills International - Cairo, Egypt - Liaison Manager

Responsible for project coordination between the Egyptian Free Zones Authority and RS&H. The project included a prefeasibility study for the free zones of Adabiya and Suez and the evaluation of existing free zones at Alexandria, Port Said and Cairo in the area of construction consultation for long-term infrastructure and development.

Egyptian Free Zone Authority - Field Engineer

Responsible for field construction inspection of industrial free zones, including road surveying and grading and the infrastructure construction; cost estimates; and monthly evaluation of contractors' billings.

Wimpey Construction - London, Great Britain - Assistant Field Engineer

Responsible for construction inspection of Victoria Office Building in downtown London.

Arab Contractors - Cairo, Egypt - Assistant Field Engineer

Responsible for construction of nine 20-story buildings in Heliopolis, Cairo. Lift slab and slip form systems were used in the construction.

OTHER PROJECT SUMMARIES

Program Management Better Jacksonville Plan, City of Jacksonville/Jacksonville Electric Authority, Jacksonville, Florida – Program Director

Project includes the delivery of road and bridge projects in Northwest Jacksonville. Services include the management of the design and construction of more than 40 roadway and bridge projects with a total budget of approximately \$500 million for the City of Jacksonville and the Jacksonville Electric Authority.

Administrative Engineering Support Services (AES) Jacksonville Port Authority (JAXPORT) – Project Director

Services are provided through task work orders; including a broad range of multidiscipline port and intermodal services ranging from transportation engineering and planning to facility design and program management. On-going tasks include developing a site assessment plan for the Blount Island terminal to expand the container handling capacity and develop parking structures to handle their automobile handling, and to provide transportation plan coordination and community outreach/public involvement services, toward developing a holistic transportation plan embodying all the best of the many plans under development. JAXPORT is estimated to handle 2.2 million container loads and generate 8,500 weekday trucks by year 2020.

Utility Groundworks Program - JEA General Engineering Contract – Project Director

Task work order contract; where RS&H has been responsible for designing and implementing over 289,000 linear feet of transmission main, including water, waste water and reclaimed water main and overseeing a \$253 million utility capital improvement program.

I-75 Multimodal Master Plan Study, Florida Department of Transportation, District 2 – Project Director

Involves evaluation of the I-75 corridor from the Marion/Alachua County line to the Florida/Georgia state line, a distance of 100 miles. The purpose of the study is to evaluate future travel demands to identify a preferred alternative. Using the FHWA 3 Tier process, alternatives being evaluated include general purpose lanes and HOV/HOT lanes. The study will also focus on freight needs along the corridor, including truck lanes and express lanes, to meet the 2035 horizon year.

Jacksonville Transportation Center, Florida Department of Transportation, District 2 - Final Design, Jacksonville, Florida – Project Director

Preparation of final design plans for FDOT's \$52 million complex that will house the Regional Traffic Management Center, JTA and North Florida TPO Transport Offices, Skyway parking structure, a public plaza and retail space.

Efforts include all building engineering aspects of the project, as well as the site civil and drainage. Prime Consultant is AECOM serving as Project Architect.

Jacksonville Port Authority Administrative Engineering Consultant – Project Director

Under this Task Work Order Contract numerous studies have been completed including participating on task force to address the Port's transportation infrastructure needs at Port's Dames Point Terminal to meet the future container traffic. Participants included representatives from the Jacksonville Mayor's office the Jacksonville Transportation Authority, North Florida TPO and the Florida Department of Transportation as well as elected officials approximately \$50 Million in short term improvements were identified that needs to be completed by 2015.

North Florida Rail Strategic Plan - Jacksonville Transportation Authority – Project Director

This plan was to develop a multimodal regional rail strategy for addressing freight, commuter, intercity passenger rail service as well as the future high speed passenger rail for the north Florida region, the study will also identify freight rail and user stakeholders and begin a dialogue to develop a framework for a future integrated passenger and freight rail network. Stakeholders include the Jacksonville Port Authority, North Florida TPO, and major freight rail providers; CSX, Norfolk Southern and FEC (Rail America).

North Jacksonville Marine Terminals Multimodal Impact Study Phase II – Project Director

This study was to address JAXPORT regional freight rail access needs to its North Terminals at Blount Island and Dames Point marine terminals. This study includes coordination with Class I freight rail carriers such as CSX and Norfolk Southern. Coordination with regional stakeholders includes North Florida TPO, Florida Department of Transportation, the City of Jacksonville, as well as adjacent North Florida Counties.

Master Plan Consultant, Florida Space Authority, Merritt Island, Florida – Project Director

Under this Task Work Order contract, several studies have been completed to date including:

- Evaluating the current Facilities Master Plan. The Master Planning evaluation effort integrated existing and future facilities needs, as well as identifying statewide transportation highway/rail choke points for large cargo movements to the Cape. In addition the Master Plan scope was expanded to accommodate a comprehensive approach to the Space industry in general. One goal of the study was to facilitate the ability to attract large space-related industries and/or research and development firms to Florida. This expanded scope required on-going coordination with other state agencies such as the Florida Department of Transportation, Department of Education and Enterprise Florida.
- Identify a list of transportation improvement projects throughout Florida and recommend the inclusions of those projects in the Metropolitan Planning Organization's and Florida Department of Transportation's five-year work program funding process.

North Florida Transportation Planning Organization, General Consultant, Jacksonville, Florida – Project Director

Under this Task Work Order, numerous studies have been completed to date including:

- North Jacksonville Marine Terminals Multimodal Impact Study Phase I. This study evaluated the impact of JAXPORT container growth on the Strategic Intermodal System (SIS) highway and freight rail facilities and assessed the need for an on-dock or near dock intermodal rail terminal.
- I-95 Reliever Feasibility Study. This study evaluated the development of new 40-mile multilane north/south corridor alignments parallel to I-95 in Nassau and Duval Counties to accommodate future travel demand along the I-95 corridor and provide a direct connection to I-295 around Jacksonville.
- First Coast ITS Master Plan. This study evaluated development of a regional ITS for the Northeast Florida region. The study would integrate the needs of several state and local agencies from cities, municipalities and emergency management from the five-county area to develop a regional vision for the regional transportation management center.
- Baymeadows Road (SR 152) Mobility Study. This study evaluated multimodal options to increase this congested corridor throughput capacity. Alternatives included signal coordination at signalized intersections, transit stops, access management and bicycle and pedestrian enhancements. A public/private partnership created a Transportation Management Organization (TMO) responsible to implement the proposed improvements.

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- Mayport Road (SR 105) Mobility Study. This study evaluated multimodal options to increase safety along this congested corridor and improve access to Naval Station Mayport. Alternatives included the addition of a raised median, access management, signal coordination at signalized intersections, transit options and bicycle and pedestrian enhancements.
- Regional Freight Mobility Study. The study included creating a freight stakeholder group, developing regional GIS database of freight warehouse, distribution, rail yards and port facilities and regional freight movement patterns and characteristics.
- ITS Arterial Study for Atlantic Boulevard (SR 90). Evaluate options to improve corridor throughput including signal coordination at signalized intersections, incident management, transit priority, dynamic message signs and highway advisory radio.
- Clay County Florida Intrastate Highway System (FIHS) Corridor Study. This study evaluated several transportation corridors throughout the county to identify corridors that meet the FIHS criteria.

I-Drive Circulator Alternative Technology Study, Florida Department of Transportation, District 5, Orlando, Florida – Project Director

RS&H's portion of this study was to evaluate corridor alternatives and develop feasible technology to serve the Orlando tourist and shopping destinations in the vicinity of Orlando Convention Center along International Drive. Alternatives included BRT, trolley and a fixed Guideway system.

I-74 (US 52) Land Use and Transportation Plan, Winston Salem, North Carolina – Project Director

The project involved an integrated approach to the transportation system, land use with a main focus on economic redevelopment. This study followed FHWA 3 Tier process and included several alternatives to evaluate upgrading the existing corridor to interstate or expressway standards while minimizing the impacts on the physical, social and natural environment. Preferred alternative was the consolidation of interchange locations, closing several substandard interchanges and adding general purpose lanes.

General Planning Consultant FDOT District 1 – Project Director

This Task Work Order contract is for five years to provide general planning services to the department including:

- IJR/IMR reviews conducted numerous reviews of interchange justification report application submitted to the department for review.
- Growth Managements reviews conducted numerous reviews submitted by local and municipal government on behalf of the department.
- DRI Reviews conducted numerous reviews of Development of Regional Impact applications on behalf of the department.

Chattanooga Airport Master Plan - Chattanooga, Tennessee

Responsible for the roadway transportation element of the airport master plan including new interchange to the airport, improved access road for travelers and employees as well as new parking structure.

Jacksonville Transportation Authority Transit Development Plan, Jacksonville, Florida – Project Director

Prepared a transit development plan for the LaVilla District in downtown Jacksonville adjacent to the convention center. The plan responds to the city's master plan for the area, which calls for a dynamic mix of residential, commercial and entertainment uses. Of chief importance is maintaining excellent Intermodal characteristics within the plan. The LaVilla District boasts a wide assortment of transit modes, including a skyway, Amtrak, planned BRT/LRT corridors and a large volume of parking. Successfully integrating these transit features into a commercially viable plan to provide the best mix for a bright future.

Jacksonville Transportation Center, Final Design, Jacksonville, Florida – Project Director

Preparation of final design plans to relocate the Amtrak operation to the Downtown Union Station historic building. The plans include passenger ticketing and handling, new rail tracks to access the terminal, baggage handling tunnels and vehicular parking for staff and Amtrak passengers.

SR 202 J. Turner Butler Corridor Multimodal Master Plan Study, Jacksonville, Florida – Project Director

Thirteen-mile, heavily congested, limited-access corridor serving the Jacksonville urbanized area with the

residential areas at the beaches. This study followed FHWA 3 Tier process. Alternatives included express lanes, HOV, busway, light rail system and ITS applications along the corridor. Preferred alternative was barrier-separated express lanes.

FIHS System Planning Consultant, Upgrading Selected FIHS Corridors, Various Locations throughout Florida – Task Manager

Responsible for upgrading US 301, US 19, US 27 and SR 60 from controlled access to expressway standards, preparing cost estimates for the improvements.

FIHS System Planning Consultant, 2020 Needs Plan, Florida – Task Manager, District 2

FIHS Needs Plan coordinated projects in work program, the Needs Plan and developed the cost feasible plan, including Intelligent Transportation System projects. Task required extensive coordination with FDOT's District 2 staff.

General Planning Consultant, Special Projects, Florida Department of Transportation (FDOT), District 4 – Project Manager

Provide multitask planning support to FDOT staff, specifically, as it pertains to I-95/I-595 Multimodal Master Plan project in Broward and Palm Beach Counties and the Port-to-Port People Mover project in Broward County. Alternatives included reversible lanes, light-rail system and ITS Deployment Master Plan.

Historic Downtown Transit Greenway Plan, City of St. Augustine, Florida – Project Director

Responsible for the budget, staffing and schedule management, technical transportation, land-use and parking analysis, client and stakeholder coordination and public involvement program. Plan created a walkable, transit-friendly downtown concept, including the development of parking strategies to manage a visitor population of about three million people annually and the convergence of three major state-owned highways located at the edge of the historic downtown.

SR 7/US 441 Extension PD&E Study, Palm Beach County, Florida – Project Manager

Responsibilities include development of a new ten-mile corridor extension to provide for a four-lane rural, arterial high-speed access controlled facility from SR 704 (Okeechobee Road) to SR 710 (Beeline Highway) in Palm Beach County. Several alternative alignments were developed. The project included a major public involvement component.

FIHS Systems Planning Consultant, ITS Planning Guidelines – Task Manager

Responsible for the development of all updated ITS Planning Guideline Manual for application on FIHS systems and non-FIHS systems.

SR 710 FIHS Action Plan, 59-Mile Corridor Master Plan, Palm Beach, Martin and Okeechobee Counties, Florida – Project Manager

Project included short-term improvements such as signalized intersection improvements and long-term improvements such as access management and lane addition for the project.

Dynamic Message Signs, Two Locations at SR 858 and SR A1A and 17th Street and SR A1A – Project Manager

Responsible for the preparation of plans and specifications for six LED Dynamic Message Signs for arterial applications at both Intracoastal Waterway crossings in South Florida, including communications to the Traffic Management Center and to the bridge control house.

Jacksonville Multimodal Center PD&E, Jacksonville, Florida – Project Manager

Responsible for RS&H elements of the project, which include the data collection and GIS mapping, investigate alternatives impacts and prepare the environmental documents for the project. The project will collocate AMTRAK, Greyhound bus service, the Jacksonville People Mover, the I-95 HOV ramps and the future commuter rail service to the suburbs and at the existing Union Terminal, a National Historic Building.

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US 1 Transportation Systems Management Study, Jacksonville, Florida – Project Manager

The study identifies the most cost-feasible means of improving capacity along a major urban arterial corridor, by increasing the throughput capacity of the corridor to function as an alternate corridor while I-95 is under construction. The study includes closed loop system for coordinating 18 signalized intersections and the investigation of hardware systems to allow for transit pre-emption.

SR 7/US 441 Corridor Planning Study from Okeechobee Road to I-95, Palm Beach and Martin Counties, Florida – Project Manager

Responsibilities included development of a new 20-mile alternate corridor to provide for a four-lane rural arterial to serve as an urban by-pass for the city of West Palm Beach.

Serving on the City of Jacksonville Mayor's Task Force for the SR 202 (J. Turner Butler Boulevard) Corridor Preservation

Providing technical support to an appointed group of business leaders recommending plans and solutions to preserve the corridor as a limited-access facility and attempt to develop a plan to accommodate the growth occurring along the 13-mile corridor connecting the beaches to the city of Jacksonville.

Palm Beach International Airport New Intermodal Access Study, Palm Beach, Florida – Project Manager

Responsible for developing new interchange and access to the airport between SR 80 and Belvedere Road Interchanges in Palm Beach County. All alternatives included fully directional interchanges with I-95 and a new, elevated-roadway access to the airport. Several alternatives were evaluated. The top ranked alternatives were further evaluated following the NEPA process.

Palm Beach Grade Separation Study, Palm Beach County, Florida

Responsible for development of conceptual interchange designs and cost estimates for 14 urbanized intersections that will exceed their future capacities.

Two-Lane, 7.5-Mile Rural Highway in Hamilton County, Florida – Lead Project Engineering

Rehabilitation and safety improvements including maintenance of traffic, signing and marking and quantity take off.

Conceptual Highway Design for Palmetto Expressway Rehabilitation from Kendall Drive Interchange to Tamiami Interchange, Florida Department of Transportation, Dade County, Florida – Project Engineering

Work included design of a three-mile elevated freeway section of the expressway with shoulder placed noise walls. Also developed a maintenance-of-traffic scheme, which enabled through traffic to stay at-grade during construction of the elevated section.

I-95/HOV/Rail Corridor Study, Florida Department of Transportation, Palm Beach and Broward Counties, Florida

Responsible for preliminary design of various alternative interchange concepts, development of cost estimates and maintenance of traffic associated with each concept and assisting in preparation of final report.

I-95/HOV Master Plan Study, Florida Department of Transportation, Broward County, Florida

Widening of I-95 from 6-lanes with a grassed median to 10-lanes barrier separated typical section with HOV lanes project included drainage improvements and noise walls installation throughout the Broward County. Responsible for preliminary design of various interchange concepts to accommodate the widening of Including the development of cost estimates and maintenance of traffic plans associated with each concept.

I-95/HOV Noise Wall Study, Florida Department of Transportation, Palm Beach County, Florida.

In an effort to minimize the construction impacts of I-95 Widening from 6 lanes to 10-lanes with HOV Lanes. The FDOT elected to accelerate the construction of Noise Walls along noise sensitive areas along the right of way lines of I-95 Corridor in Palm Beach County. Noise wall location and height were determined prepared construction estimates and prepared bid documents for the project. To expedite construction the project was divided to 4 separate contracts.

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Conceptual Design and Alternative Alignment for the Outer Beltway, Florida Department of Transportation, District 2, Clay and St. Johns Counties, Florida

Prepared alternative corridor alignment for this 16-mile project. Minimized impacts on the residential community in Fleming Island and avoided potential impacts on a closed landfill, prepared typical sections and construction cost estimates.

CSX Rail Corridor, Broward County, Florida

Responsible for preliminary design for various alternative alignments to eliminate rail crossing. Developed elevated-rail typical sections, horizontal and vertical geometry and cost estimates. Prepared alternative evaluation matrix and recommendations.

Intermodal Port Facility, Jacksonville Port Authority (JPA), Jacksonville, Florida

Prepared a study and performed conceptual design as a part of the overall JPA master plan for year 2000. Study addressed integration of rail, port and roadway modes of container handling.

Leonardo da Vinci Airport, Rome, Italy

Performed conceptual highway design for new access roads to meet the future demands of the conceptual (1995 to 2005) master plans for the airport. Project included interface with transit bus service and a light-rail service serving the airport from the city of Rome.

Mathews Bridge, Jacksonville Transportation Authority, Jacksonville, Florida

Supervised construction inspection of the \$2.2 million painting and rehabilitation projects.

Victoria Office Building, Downtown London, Great Britain – Assistant Field Engineering

Construction inspection.

Heliopolis, Cairo, Construction of Nine, 20-Story Buildings – Assistant Field Engineering

Lift slab and slip form systems were used in the construction.

PUBLICATIONS

Philips Highway TSM Study: *A Case Study in the Analysis of Transportation System Strategies to Accommodate Traffic Diversion During Interstate Construction*, ASCE, Traffic Congestion and Traffic Safety in the 21st Century: Challenges, Innovation and Opportunities, 1997.