SunGuide℠ Disseminator

FDOT ITS District Progress Reports

Following is a compilation of quarterly progress reports provided by FDOT Districts and the Florida Turnpike Enterprise:

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Advanced Traffic Management Systems

Manatee County Advanced Transportation Management System, Design-Build Requirements Package Development (415227 1 32 01)
This project will develop a Design-Build Requirements Package to be used by FDOT to secure a Design-Build Team, which will complete the design and construct an upgrade to the existing signal system. The ATMS upgrade will include new central hardware and software, new controllers and cabinets, an updated communications plant, and video monitoring at selected locations. The construction funding (416119 1 52 01) was moved out of the FDOT Work Program to fiscal year 2007/2008. The development of the Design Build Requirements Package is ongoing and will be completed soon.
Approx. Completion: Letting March 2008
Contact: Mark Roberts (863) 519-2591

Manatee County Regional Traffic Management Center Building, (415228 1 [38, 48, 58, 68] 01)
This project is being managed by Manatee County through a Joint Project Agreement with FDOT. This project will determine the site location, define the requirements, and construct the traffic management center building to house the regional signal systems and the future FDOT Satellite Center for I-75. The county selected a site and construction started the end of July 2006.
Approx. Completion: June 2007
Contact: Chris Birosak (863) 519-2507

The *FDOT ITS District Progress Reports* is a publication of:

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Traffic Engineering and Operations Office, ITS Section
605 Suwannee Street, MS 90
Tallahassee, Florida 32399-0450
(850) 410-5600
http://www.dot.state.fl.us/trafficoperations/default.htm

City of Punta Gorda/Charlotte County Advanced Transportation Management System, Design-Build Construction (193824 2 52 01 and 418160 1 52 01)
This is a Design-Build construction project. The Design-Build Team will complete the design and construct the system. This project is rebuilding the signal system components that were damaged by Hurricane Charley and will include additional locations to be incorporated into the project. The project will include new central hardware and software, new controllers and cabinets, updated communications, and video monitoring at selected locations. The project is ongoing. Phase I of the project, which included 54 intersections, is complete.
Approx. Completion: December 2007
Contact: Chris Birosak (863) 519-2507

Winter Haven/Polk County Advanced Transportation Management System, ITS Master Plan and Design-Build Requirements Package Development (408043 1 32 01)
This project will develop an ITS Master Plan to be used as the basis for upgrading the existing Winter Haven Signal System and it will define the requirements for a system for Polk County. This project will also complete a Design-Build Requirements Package to be used by FDOT to secure a Design-Build Team, which will complete the design and construct an upgrade to the existing Winter Haven signal system. The ATMS upgrade will include new central hardware and software, new controllers and cabinets, an updated communications plant, and video monitoring at selected locations. This project is ongoing. The construction funding for this project (408043 2 52 01) has been moved out to 2010/2011.
Approx. Completion: March 2007
Contact: Mark Roberts (863) 519-2591

Advanced Traveler Information Systems

Southwest Florida ATIS (414668-1)
This project will provide operations and marketing support for the new ATIS covering Charlotte, Lee, and Collier Counties in southwest Florida. In addition, it will deploy an automated data collection system on I-75 in Charlotte, Lee, and Collier Counties to provide additional content to the new Southwest Florida ATIS system, and in Manatee (I-75), Sarasota (I-75), and Polk (I-4) Counties to support the expansion of the existing Tampa Bay ATIS. The data fusion and Web page functions for the new Southwest Florida ATIS will be provided through a contract funded by the FDOT Central Office Traffic Engineering and Operations Office. This will be a separate project from the elements to be procured via this Invitation to Negotiate. The new system will be available in early spring 2007, and will continue until the successful launch of the new statewide 511 system, currently planned for summer/fall 2008. The Notice to Proceed for this project was July 10, 2006.
Approx. Completion: December 2008
Contact: Chris Birosak (863) 519-2507

Freeway Management Systems

I-75 Freeway Management System for Collier and Lee Counties, System Integration, and Regional Transportation Management Center Construction Project (416413 1 52 01, 416412 1 52 01, and 414733 1 52 01)
This is a Design-Build construction project. The project includes the final design and construction of a new regional transportation management center (RTMC) building, parking areas, and utility connections. The RTMC will be located at the Daniels Parkway Rest Area in Lee County. The project includes the design and installation of ITS field elements, which include closed-circuit television (CCTV) cameras, dynamic message signs (DMSs), road weather information systems (RWIS), microwave detection, and fiber optic communications cable and transmission equipment along approximately 98 miles of I-75, starting at the Broward County line mile marker 50.7 and ending at the Charlotte County line mile marker 148.4. The project also includes: modifying the existing safety barrier cable system (SBCS) along I-75 in Collier County to install and integrate an ITS detection and alarm system; integrating the ITS and SBCS with the central control equipment to be installed at the RTMC; installing and integrating the video wall and conference room display systems at the RTMC; installing and integrating the Amber Alert system at the RTMC; installing the telephone system at the RTMC; and testing all of the aforementioned systems. The Notice to Proceed was issued in January 2006. This project is ongoing. The

conduit along Alligator Alley has been installed and construction on the RTMC began at the end of February 2007.
Approx. Completion: January 2008
Contact: Chris Birosak (863) 519-2507

I-4 Portable Intelligent Transportation System (PITS) in Polk County (410020 1 62 01)
This portable ITS monitors traffic conditions along the I-4 corridor in Polk County through the use of video cameras and remote traffic monitoring devices. It provides traffic information to motorists through variable message signs, AM radio, and a public Web page (I4polk.com) that displays the current traffic conditions. It also provides a live video feed and real time traffic data for the I-4 construction office. The funding for this system was extended to provide service beyond the I-4 construction period.
Approx. Completion: June 30, 2007
Contact: Andrew Johnson (863) 519-4326

I-75 Freeway Management System for Charlotte County (414738 2 52 01)
This project includes the development of the Design Build Criteria Package for the final design and installation of ITS field elements, which include CCTV cameras, DMSs, road weather information systems (RWIS), microwave detection, and fiber optic communications cable and transmission equipment along I-75, from the Lee County line to the Sarasota County line.
Approx. Completion: Advertise Date April 2007
Contact: Mark Roberts (863) 519-2591

Districtwide RTMC ITS Operations Contract (417733 1 82 01)
This project provides the funding for the operation costs for the District One RTMC. RFP Bid Package was advertised in March. Contract to be executed by June 2007.
Approx. Completion: 2012
Contact: Katherine Duvall (863) 519-2726

Incident Management

Road Rangers Service Contact, Alligator Alley (part of asset management contract)
This is the service contract for I-75 along Alligator Alley that provides service from the US 27 tollbooth in Broward County through Collier County to Exit 116 in Lee County.
Approx. Completion: Will remain in effect for the 7-year term of the asset management contract.
Contact: Don Olson (863) 519-2274

Road Rangers Service Contract, Lee County (408998 1 72 01)
This is the service contract for I-75 in Lee County that provides service from Exit 116 to Exit 138.
Approx. Completion: Renewed
Contact: Don Olson (863) 519-2274

Road Rangers Service Contact, Charlotte County/Sarasota County (409000 1 72 01)
This is the service contract for I-75 in Charlotte and Sarasota Counties that provides service from Exit 170 to Exit 205.
Approx. Completion: Renewed
Contact: Don Olson (863) 519-2274

Road Rangers Service Contract, Polk County (408999 1 72 01)
This is the service contract for I-4 in Polk County that provides service from the Hillsborough County line to the Osceola County line.
Approx. Completion: Current contract ends June 30, 2007.
Contact: Don Olson (863) 519-2274

Districtwide Road Rangers Service Contract, (422263 1 72 01 (Polk), 422286 1 72 01 [Collier])
This is the service contract for I-4 in Polk County that provides service from the Hillsborough County line to the Osceola County line and for I-75 in Collier County from the Broward County line to the Lee County line. Additional routes may be added to this contract. RFP Bid Package was advertised in March.
Approx. Completion: New contract to begin July 1, 2007
Contact: Don Olson (863) 519-2274

ITS Planning and Project Development

District-wide Intelligent Transportation Systems Planning (412452 1 12 01)
This ITS General Planning Consultant Project provides a broad range of support to the District ITS Program. Current tasks include:

- ITS Regional Architecture Update;

- I-75 Median Crossover Study;
- Traffic Incident Management Team Formation and Support;
- Traffic Incident Management training, workshops, notification/resource guide, diversion planning, incident reviews and tracking methodology;
- Fort Myers RTMC Design-Build Criteria Development; and
- Long Range Transportation Plan Guidance for ITS.

Approx. Completion: May 2008
Contact: Lawrence Massey (239) 461-4318

District-wide Intelligent Transportation Systems General Consultant Traffic Operations (417470 1 32 01)
This ITS General Consultant Project will provide District 1 with a broad-range general consultant supporting the District on an as-needed basis. The contract was executed in January 2006, and is expected to last for five years.
Approx. Completion: June 2010
Contact: Chris Birosak (863) 519-2507

Advanced Public Transportation Systems

Lakeland Area Mass Transit District (LAMTD)–Automatic Vehicle Locator (AVL) System (418356 1 94 01)
The AVL system specification has been reviewed and approved by the FDOT. The project is going out for RFP's. Proposals have been reviewed and award is anticipated in 2007.
Approx. Completion: 2007
Contact: Jan Parham (863) 519-2390

Lakeland Area Mass Transit District (LAMTD)–Customer Service, Information, and Enhancement Package (418357 1 84 01 and 418357 1 94 01)
Specifications have been reviewed and approved by the FDOT for the Information and Enhancement Packages. LAMTD has moved forward with purchases. Training and fleet software will be installed in the existing computer equipment system wide for the agency. This approach will be a streamline process.
Approx. Completion: 2007
Contact: Jan Parham (863) 519-2390

Sarasota County Transportation Authority (SCAT)–Automated Public Transportation System Study and Procurement (410109 1 94 01)
Specifications and RFP's have been reviewed and approved by the FDOT for this project. This project has moved forward with the bid process. PBS&J with CUTR are working with SCAT to handle the purchases of the new equipment with training for the system in 2007.
Approx. Completion: 2007
Contact: Jan Parham (863) 519-2390

Sarasota County Transportation Authority (SCAT) (205803 1 94 01)
Specifications are being developed for this project. FDOT will review and approve the specifications prior to SCAT moving forward the purchases. PBS&J with CUTR are working with SCAT to handle the purchases of the new equipment with training for the system in 2007.
Approx. Completion: 2007
Contact: Jan Parham (863) 519-2390

Manatee County Area Transit (MCAT) (205219 1 94 01)
This project is upgrading the dispatching system including capital cost for an AVL system.
Approx. Completion: To be determined
Contact: Jan Parham (863) 519-2390

Lee County Transit (LeeTran) (418015 1 84 01 and 418015 1 94 01)
This project upgrades the scheduling and dispatching system in accordance with the Americans With Disabilities Act (ADA) using Route Match hardware/software. It includes capital costs and on-going operating costs for 2 years. Also, federal formula funding from FM# 404591 1 94 01 is augmenting this project to include AVL on all paratransit vehicles. The project scope was expanded to include the on-board camera project on fixed-route and paratransit vehicles. LeeTran is working with County Purchasing to secure a bid and plans to forward to the FDOT for third-party contracting approval prior to awarding a contract.
Approx. Completion: Project is underway utilizing RouteMatch Software
Contact: Julia Davis (239) 461-4327

Lee County Transit (LeeTran)–Automated Fare Collection System (407328 1 94 01)
This project uses GFI TRiM Ticket Reader/Issue Machine along with additional hardware/ software for a scheduling and dispatching system using federal formula funding. The Automated Fare Collection System project was completed in 1999 under a USC 5307 federal grant FL-90-X354, not a state grant.
Approx. Completion: Automated Fair Collection project implementation complete.
Contact: Julia Davis (239) 461-4327

Lee County Transit (LeeTran)–Customer Information and Trip Planning Program (417991 1 94 01)
This project provides capital costs for call-in and/or Web-based customer trip planning software/hardware. This system will help customers arrange car or van pools, plan bus trip, etc., from home. Nextbus technology is being implemented on the Ft. Myers trolley bus system. The project uses local, state, and some federal funding for 5 years on eight trolleys and includes four electronic passenger signs at stops. LeeTran is researching the various technological options at this time.
Approx. Completion: 2010
Contact: Julia Davis (239) 461-4327

• • District Two • •

Advanced Traffic Management Systems

Road Rangers Service Patrol (21481727201)
The Road Rangers Service Patrol contract is up for renewal in March of 2007. Selection for the new contract was made. The firm selected for a minimum of the next three years was First Coast Road Rangers. All interested parties should contact the Service Patrol Project Manager, Ms. Donna Danson.
Advertising Date: November 2006
Execution Date: March 2007
Contact: Donna Danson (904) 360-5635

Traffic and Travel Management Jacksonville Interstate Surveillance and Control System, Phase 5 (4147261)
This design-build project, on I-295 north from I-10 to I-295, involves construction/installation of two master communication hubs, fiber optic cable, communication equipment, closed-circuit television (CCTV) cameras, traffic detection units, dynamic message signs (DMSs), connection to the Jacksonville Fiber Optic Network, and software integration/ enhancements. A Systems Manager approach was chosen for this project due to the maturation of the Jacksonville system and undesirable conflicts encountered within the Design-Build construction process. Likewise, a limited amount of discretionary funding was available for this 20 mile project, therefore economies of scale led to the support of this Systems Manager approach. The Central Office Statewide ITS General Consultant, PBS&J, was given the task of designing the project and procurement documentation. 100% plans completed, project let in April to World Fiber and the Statewide Procurement Contract was executed in September. Procurement of the devices will occur in November.

World Fiber was the low bidder contractor and was selected to perform the work. Three firms were short-listed for the CEI contract and the selection went to Metric Engineering.
Approx. Completion: August 2007
Contact: Peter Vega (904) 360-5463

Replacement of District Two Legacy Equipment (4177352)
Florida's ITS offices recently received funding for the replacement of legacy ITS equipment. District 2 has 21 CCTV cameras, 8 DMSs, and 41 vehicle detectors that will need to be replaced in fiscal year 2006. These projects will require our maintenance contractor to deploy devices that meet current ITS standards developed by FDOT. District consultants will be used for this work. Devices will be purchased using the Statewide ITS Equipment Procurement Contract and will be installed by the ITS Maintenance Contractor.
Approx. Completion: October 2007
Contact: Peter Vega (904) 360-5463

Northeast Florida Regional ITS Master Plan
The City of Jacksonville received a grant from FHWA to develop a Regional ITS Master Plan. The Jacksonville Transportation Authority will provide the Project Manager; however numerous government agencies within the

region will participate in Scope of Work development and selection of the consultant. Advertising was done in June and consultant selection winner was Telvent Faradyne. Work has begun and the Master Plan should be completed by May 2007.
Approx. Completion: May 2007
Contact: Peter Vega (904) 360-5463

Traffic and Travel Management Jacksonville Interstate Surveillance and Control System, Phase 5a
This design-bid-build, on I-95 south from I-295 to the St. Johns County line, involves construction/installation of master communication hubs, fiber optic cable, communications equipment, CCTV cameras, traffic detection units, DMSs, connection to the Jacksonville Fiber Optic Network, and software integration/enhancements. A low bidder contractor will be selected to perform the work.
Approx. Advertisement: October 2008
Contact: Peter Vega (904) 360-5463

ITS Planning and Project Development

District Two TMC Consultant
There was a need for a District 2 TMC Consultant to handle networking duties, software integration/management, TMC performance tracking, Traffic Incident Management and assistance with segmental ITS projects. Assistance with the overall ITS program development will also be a requirement. The consultant selected for the contract was Metric Engineering.
Contact: Peter Vega (904) 360-5463

District Two Va Phase Design
The District received SIS/Growth Management funds to hire an ITS consultant design firm to generate ITS construction plans for I-95, from I-295 to the St. Johns County line. Letters of Interest were due on March 16 and short-listing will occur in April. This is a 6.7 mile project that will incorporate tie-into the existing Phase III and Phase V deployments.
Contact: Peter Vega (904) 360-5463

• • District Three • •

Advanced Traffic Management Systems

Bay County ITS Integration Project / Congressional Earmark (408412-1)
This project includes: ATMS implementation/ Panama City Area; real-time monitoring of signal equipment; provision for flexibility to respond to emergency evacuations, traffic incidents, and special events; integration of the Hathaway Bridge incident management system (IMS) with ATMS; and integration of various emergency management systems (EMS) and other agencies within the county. (This includes integration of the Bay District Schools with emergency services for improved emergency management communication during emergency shelter operations. The Bay District Schools will also be utilizing their fiber optic backbone for their Distance Learning Program). Phase I of the project provides for the installation of a fiber optic backbone through the design/build procurement process. The successful Phase I Design-Build Firm bidder (World Fiber Technologies) began construction on the first of four geographical components in June 2006. Phase I was originally projected to be completed in March 2007. However, the addition of a segment of U.S. 98 (Tyndall Parkway) to Phase I has shifted the anticipated completion date to May 2007.

Currently, a PS&E package is under development for the subsequent phase, which includes renovation of the existing Bay County Public Works facility to serve as an interim transportation management center (TMC), integration of the Hathaway Bridge ITS components, selection of TMC software, and support for the local school board. The consultant has conducted site visits and inventoried the existing equipment in preparation for developing the design plans for the ATMS, which is being coined the Phase II effort.
Bay County received another $2,000,000 Earmark for Federal Fiscal Year 2005 ($1.434M after rescission/takedown).

- **Phase II – Integration of communication backbone with ITS field devices (Conventional design/bid/build contract)**

- Integration of existing Hathaway Bridge Incident Management System (IMS)
- Establishment of interim Transportation Management Center (TMC)
- TMC software selection
- PBS&J (Central Office ITS General Consultant) has completed 90% design
- Design Anticipated to be Complete – April 2007
- Anticipated Start of Construction – January 2008

- **Phase III**
  - Upon completion of phases I & II, the ITS project will expand to include the remainder of major roadways/traffic signals (e.g., west side of Hathaway Bridge)

Contact: Chad Williams (850) 415-9504 or Cliff Johnson (850) 415-9694

I-10 / I-110 Freeway Management System for Escambia & Santa Rosa Counties and Regional Transportation Management Center (414706-1)

This project includes the delivery of ITS services within a long term regional Asset Maintenance contract for Escambia County. The selected Contractor will be required to provide services for the design, deployment, testing, and operation and maintenance of a regional transportation management center (RTMC) and freeway management system (FMS) in Escambia and Santa Rosa Counties, Florida. The scope of work includes preparing deployment plans and specifications, system hardware and software procurement, hardware compatibility testing, system communications testing, coordinating system deployment, performing system integration, providing system documentation and training, performing system evaluation, data management, and providing on-going operation and maintenance in support of a comprehensive FMS. This system will be deployed along approximately 32 miles of Interstate-10 starting at Escambia County Mile Post 0.000 and ending at Santa Rosa County Mile Post 15.716 and all of Interstate-110. This project will require the Contractor to deploy ITS field devices that meet current ITS standards developed by FDOT and include, but are not limited to, closed-circuit television (CCTV) cameras, dynamic message signs (DMSs), road weather information systems (RWIS), and traffic detection units. Road Rangers service patrols will be included within the Asset Maintenance portion of the contract. The term of the ITS / Asset Maintenance contract will be 10-years with a 10-year renewal period.

Team selection has been proceeding according to the following timeline:

- Request for Proposal (RFP) advertisement was distributed September 5, 2006
- Pre-Proposal Meeting was held with prospective teams on September 27, 2006
- Technical Proposals & Price Proposals were submitted on February 14, 2007
- Oral Presentations from teams were held on February 27, 2007
- Question and Answer Sessions with teams were held on March 13, 2007
- Price Opening – March 21, 2007
- Posting Period – April 3, 2007 to April 6, 2007
- Contract Execution – May 2, 2007

Approx. Completion: July 2009
Contact: Chad Williams (850) 415-9504 or Cliff Johnson (850) 415-9694

I-10 Freeway Management System for Tallahassee Area and Regional Transportation Management Center (414716-1, 414718-1 & 414720-1)

The FDOT and City of Tallahassee have agreed to pursue alternatives that may exist for the City to administer the design, construction, operation, and maintenance of the Tallahassee I-10 Freeway Management System (FMS) and associated regional transportation management center (RTMC), and to pursue opportunities for collocation of services among the City, the FDOT, and other agencies such as the Florida Highway Patrol.

This project will include the design and installation of ITS field elements, which include dynamic message signs (DMS), closed-circuit television (CCTV) cameras, microwave detection, and fiber optic communications cable and transmission equipment along I-10. The FMS will also include the dispatching of Road Ranger service patrols. The RTMC will include

designated office space for personnel and will house monitoring and control capabilities for the I-10 FMS and the Tallahassee Advanced Traffic Management System (TATMS); other ITS to be installed in the future; and the staff necessary to operate these systems.

A future binding Joint Project Agreement(s) (JPA) will be executed specifically for addressing project administration and funding obligations of the parties, associated with the design, construction, operations and maintenance of the FMS and RTMC. The parties recognize the potential cost and time savings resulting from their joint participation, and believe a partnership in all aspects of the FMS and RTMC development, deployment, operation and maintenance will ultimately result in more cost effective management of traffic within Leon County.

A Memorandum of Understanding was approved by the City of Tallahassee Commission on January 25, 2006.
Approx. Completion: To be determined
Contact: Chad Williams (850) 415-9504 or Cliff Johnson (850) 415-9694

• • District Four • •

Advanced Traffic Management Systems

Interim Traffic Management System (ITMS) (411067 1 32 01)
This project provides for development of a temporary ITMS for Palm Beach County including 8 years of operations and maintenance for the system. The facility officially opened on July 8, 2003, and, as of August 2004, operates on a 24-hour/7-day a week schedule. Some operational responsibilities include: dispatching of the Palm Beach Road Rangers, and coordination on operational issues with the District 6, Broward County Transportation Management Center (TMC), Florida's Turnpike Enterprise, and SmarTraveler®.
Approx. Completion: November 2009
Contact: Steven Corbin (954) 847-2791

Districtwide ITS Operations Support Services Contract (231654-3-82-01 231654-3-82-02)
This project is for the management and operations of the Broward County TMC constructed as part of the Broward County ITS Operations Facility project (231654-1-52-01). The project includes operation of the I-95/595 Broward County Dynamic Message Sign System on a 24-hour/7-day a week schedule, the dispatching of the Broward Road Rangers, and coordination on operational issues with District 6, the Turnpike, the ITMS project, and Smart Traveler. This contract initially is for the operation of the SMART SunGuide TMC and will also encompass the operations of the new Palm Beach County TMC that is currently under construction.
Approx. Completion: November 2009
Contact: Steven Corbin (954) 847-2791

Districtwide ITS Systems Software Support Services (416259-1-32-01)
This project is for providing software support services for the District 4 Intelligent Transportation Systems. This project includes a dedicated full-time Database Administrator/ Programmer to support ITS projects throughout the District including Broward, Palm Beach, Martin, St. Lucie, and Indian River Counties. Currently the DBA/Programmer is based at the Broward SMART SunGuide TMC and responds 24-hour/7-days a week to all software/database concerns.
Approx. Completion: June 2008
Contact: Steven Corbin (954) 857-2792

I-95/I-595 Broward County Dynamic Message Sign System Maintenance (406795-1-8B-01)
This project is for the maintenance of the dynamic message signs (DMSs) constructed under the I-95/I-595 Broward County Dynamic Message Sign System Projects (231659-1-52-01, 231705-1-52-01). The project includes maintenance services necessary to maintain complete functionality and operational status of the I-595/I-95 DMSs. The maintenance services include preventive/routine maintenance, diagnostic work, and major/minor repairs/ replacements. As I-95/I-595 Video Monitoring System Phase I (231739-1-52-01) completes, these devices will be encompassed by the maintenance contract.

Approx. Completion: September, 2007
Contact: Steven Corbin (954) 847-2791

Broward County ITS Maintenance (406795-3-8B-01, 406795-3-72-01)
This project is for the maintenance of the ITS devices in Broward County, including: DMSs, closed-circuit television cameras (CCTV), vehicle detection systems (VDSs), Fiber Optic Cable and all other ITS devices deployed. The project will include the maintenance services necessary to maintain complete functionality and operational status, preventive/routine maintenance, diagnostic work, and major/minor repairs/replacements. The RFP for the project is currently under development and will be advertised in early 2007.
Approx. Completion: September 2010
Contact: Steven Corbin (954) 847-2791

Districtwide ITS General Consultant (4155291-32-01)
This project provides District 4 with a broad-range general consultant services allowing support to the District on an as needed basis. The project also provides a full-time person on-site at the SMART SunGuide TMC. The new contract was let in October 2006, to VANUS, Inc. with funding of $250,000 per year for two years.
Approx. Completion: October, 2008
Contact: Dong Chen (954) 847-2796

Incident Management

Traffic Incident Management (TIM) Team (230357 1 32 03)
This project is for an Incident Management Team Facilitator. The current contract is with DMJM + Harris and began in June 2003. A one-year extension was executed in August 2006. A Task Work Order has been issued to DMJM + Harris to develop a 5 Year Regional TIM Strategic Plan to guide the team's activities and help the team achieve it's goals and objectives by creating performance measures and milestones. The plan will be based on, and incorporate, the Statewide TIM Strategic Plan. Another Task Work Order will be issued to create a Memorandum of Understanding (MOU) which states that all agencies participating in the Regional TIM Team meetings agree to work in coordination and cooperation to share resources and information and to agree to use the TIM Team as a forum to establish a regional approach to incident management planning, implementation, and operations. The MOU also states that each agency agrees to commit staff to participate in each meeting. Other agreements, including a Joint Operations Policy, will follow as byproducts of this initial agreement.

The Severe Incident Response Vehicle (SIRV) completed its one-year evaluation period in January 2006. A final report was released in March 2006 on the findings of the independent evaluation performed by Transportation Solutions, Inc. Funding has been programmed in FY 2008 for a permanent SIRV project. $638K in District funds has been programmed for two vehicles to provide SIRV coverage for Broward County. This project was advertised in March 2007. Funding for providing SIRV in Palm Beach County will be programmed beginning in 2012. A Statewide Task Team has been created to evaluate the SIRV program for statewide deployment. A presentation was made to the Executive Committee in March. The Systems Management for Advanced Roadway Technologies (SMART) system developed by DMJM Harris as a TIM initiative has been integrated into SunGuide with Release 2.2.
Approx. Completion: August 2007
Contact: Gaetano Francese (954) 777-4366

Broward County I-95/595/75 Road Rangers Service Patrol (231723 1 72 02)
This project provides Road Rangers to patrol the Interstates and help stranded motorists and assist highway patrols with incident management. The current contract was executed by Sunshine Towing in November, 2004. DMS-equipped pickup trucks have been added to the fleet. A contract was awarded to DBK Concepts Inc to procure PC Tablets for data entry of Road Rangers activities, which will then be transmitted back to the TMC. The PC Tablets were installed and tested in the Road Ranger vehicles in March 2007. Testing of the PC Tablet software and data transfer rates has been completed and integration into SunGuide 2.2 is underway. An automatic vehicle locator (AVL) component is under development. A two-way radio system has been installed in all Road Rangers vehicles.

Approx. Completion: Current contract ends September 2007
Contact: Gaetano Francese (954) 777-4366

Palm Beach County I-95 Road Rangers Service Patrol (2319241-72-02)
This project provides Road Rangers to patrol the Interstates and help stranded motorists and assist highway patrols with incident management. A new contract was executed by Sunshine Towing in August 2005. DMS-equipped pickup trucks have been added to the fleet. A contract was awarded to DBK Concepts Inc to procure PC Tablets for data entry of Road Rangers activities, which will then be transmitted back to the TMC. The PC Tablets were installed and tested in the Road Ranger vehicles in March 2007. Testing of the PC Tablet software and data transfer rates has been completed and integration into SunGuide 2.2 is underway. An AVL component is under development. A two-way radio system has been installed in all Road Rangers vehicles.
Approx. Completion: Current contract ends July 2008
Contact: Gaetano Francese (954) 777-4366

Advanced Traveler Information Systems

I-75/I-595 Video Monitoring System Phase II (231739-3-52-01)
This is a design-build project in Broward County, including engineering, designing, furnishing, installing, integrating, testing, training, and documenting a fully operational fiber optical/wireless communications network (wireless can only be used on I-595 east of I-95) subsystem on approximately 53 miles of roadway; a CCTV camera surveillance subsystem with approximately 55 cameras; a DMS subsystem with approximately 12 DMSs; a traffic detection subsystem along the I-595 and I-75 corridors in Broward County with approximately 200 detectors; and upgrading of a video wall (approximately 24 X 67" video cubes) subsystem in the Broward TMC. These subsystems will be provided along the entire I-75 corridor in Broward and the portions of the I-595 corridor between I-75 and 1000 feet east of the Pine Island Road Interchange and between the interchange with I-95 to the terminus (eastward) of the I-595, along with nine existing DMSs currently using dial-up connections. Notice to Proceed was issued on May 12, 2005. The video wall upgrade was completed in June 2006. Contractor is currently deploying conduits along I-75.
Approx. Completion: March 2008
Contact: Dong Chen (954) 847-2796

Palm Beach County ITS Deployment (404827-1-32-01)
This design-build project includes deployment of CCTV, DMS, traffic detectors, fiber communication network along I-95 within Palm Beach County. The RFP for the project is currently under development and will be advertised in late 2007.
Approx. Completion: December 2012
Contact: Dong Chen (954) 847-2791

Northern Counties ITS Deployment (414703-1, 414704-1, 414705-1)
This design-build project will continue ITS deployment into the District's three northern counties (St. Lucie, Martin, and Indian River Counties). This project includes deployment of conduit, fiber optical cables, telecommunication network, CCTV, DMS, detector, power supply (power run and UPS), etc. FDOT is currently completing the RFP which will be advertised mid of 2007.
Approx Completion: December 2011
Contact: Dong Chen (954) 847-2796

Northern Counties Incident Management Support Project (4174281-1-32)
This project will provide FDOT with Incident Management support capabilities for the District's three northern counties. Under this contract FDOT will select and outfit an existing facility (owned by the state or a local agency) with the necessary equipment to effectively support incident management operations.
Facility selection and systems design is expected to be completed by February 2007. Outfitting of the chosen facility will vary depending on facility selected.
Contact: Dong Chen (954) 847-2796

Broward County Advanced ITS Deployment (421702-1)
This is a design-build project to deploy a lane control system (LCS), weather system, and highway advisory radio along I-95 and I-75

within Broward County as well as some DMSs at arterials in the county.
Approx Completion: December 2011
Contact: Dong Chen (954) 847-2796

• • District Five • •

Advanced Traffic Management Systems

Orange County Computerized Signal System (404675-1-54-01)
This is a Local Agency Program Agreement with Orange County to upgrade the signal system.
Approx. Completion: Completed
Contact: Michael Smith (386) 943-5360

ITS Fiber Optic Leesburg and Ocala Maintenance
This project provides fiber connection from I-75 to maintenance facility.
Approx. Completion: Unfunded
Contact: Michael Smith (386) 943-5360

***i*Florida**
This is a statewide project awarded by the FHWA. The following are the bundled project descriptions and status:

Conditions System

Project Description: This project, a key component of the *i*Florida model deployment program, will be designed and implemented at the FDOT District 5's regional transportation management center (RTMC). The Conditions System is an Internet-based information system designed to collect, fuse, and disseminate transportation system conditions on the Florida Intrastate Highway System (FIHS) throughout the state as well as more detailed and multi-modal conditions in the Central Florida region. The Conditions System shall initially incorporate automated data from FDOT's Surveillance Systems, the Orlando-Orange County Expressway Authority's Travel Time Data Server, and segment weather conditions, alerts, and forecasts to be provided as part of the *i*Florida model deployment program. The Conditions System shall include an operator interface to enable appropriate personnel from FDOT, its partner agencies, and approved private contractors and consultants, to enter incident and event reports directly into the information system, both from the RTMC and remotely via a password protected, standard Internet browser.

Project Status: Operational, but still working with Castle Rock on issues; not accepted yet.

Statewide Telemetered Traffic Monitoring System Upgrade (Statewide Corridor Monitoring)

Project Description: The purpose of this initial project was originally to expand FDOT's ability to provide traffic and video images at 54 key locations throughout the state (specifically at telemetered traffic monitoring system (TTMS) sites. The project's goal was to improve communications with each of the sites in order to support real-time data collection and CCTV image collection.

This project has been formally split into two projects: (1) TTMS Video Upgrades and (2) Statewide Corridor Monitoring.

TTMS Video Upgrades – Trans Stats is researching technologies and proceeding with the project development.

Statewide Corridor Monitoring – 30 locations of the microwave tower network have been selected. A contract was issued to conduct field survey for final selection and design. A CCTV has been selected to be encoded in MPEG-4 due to bandwidth constraint and a microwave detector (Smartsensor) has been chosen for Volume, Occupancy and Speed data collection. The location will be evaluated for implementing a road weather information system (RWIS). The data and video will be transported via existing FDOT 10 Mbps network (Microwave Network).

Project Status: Operational

National Evaluation

Project Description: The *i*Florida Program Management Support task was developed to assist the FDOT in completing Phase I of *i*Florida.

Project Status: This is an ongoing effort by FHWA to monitor the processes used to complete iFlorida.

Data Warehouse Expansion

Project Description: This project will expand the existing Central Florida Data Warehouse (CFDW) in several areas. New data sources will be accommodated, including Meteorlogix weather data, FHP CAD data, operator-entered incident and event reports, statewide and Orlando area segment reports from the Conditions System, and LYNX static and CAD/Automatic Vehicle Location (AVL) data, such as routes, stops, schedules, fares, schedule adherence, and automatic passenger count data.

Project Status: Continue to work with Castle Rock on operational issues.

Network Reliability / Traffic Modeling

Project Description: This project will use traffic modeling to assess and develop contingency plans should damage to a major bridge make it unusable. This project will also apply either the Florida Reliability Method or a nationally accepted alternative (should one exist) to all road segments in the Central Florida area for which travel time data will be available through *i*Florida.

Project Status: Finalizing contract execution; also waiting on CFDW so consultant can retrieve data.

Metropolitan Data Mining

Project Description: This project will enable the region's metropolitan planning organization, METROPLAN, to identify, experiment with, and evaluate how comprehensive multi-modal data can be used to improve regional planning and decision-making.

Project Status: Contract is on hold until CFDW is accessible.

Probe Vehicle Test

Project Description: This project will serve as a test bed for the application of innovative private sector probe vehicle technologies based upon active cooperation with automobile original equipment manufacturers, should FHWA cultivate such a test. This project contains funding originally allocated for "Expanded Arterial Data Collection" and would provide initial support needed to develop and execute a probe vehicle test.

Project Status: At the request of FHWA, this project has been put on hold. However, periodic communications will occur with FHWA to maintain an understanding of progress to develop a probe vehicle test within *i*Florida.

Freeway Management Systems

I-4 SMIS (7 Miles) Phase 4 / I-4 6-Lane Reconstruction Project (242523-1-52-01)
This project provides for the extension of existing I-4 SMIS from World Drive to US 27 in Polk County. It includes conduit only.
Approx. Completion: Completed
Contact: Michael Smith (386) 943-5360

I-4 SMIS (7 Miles) Phase 4 / I-4 6-Lane Reconstruction Project (420653-1-32-01)
This project provides for the extension of existing I-4 SMIS from World Drive to US 27 in Polk County. It includes DMS, fiber and CCTV cameras.
Approx. Completion: Developing RFP
Contact: Michael Smith (386) 943-5360

I-95 Phase 3 (414715-1) (DASH I)
This project is for the expansion of DASH in Volusia County north to SR 40, south to tie into existing DASH and I-4 SMIS. Project also expands onto arterial network.
Approx. Completion: Conditionally Accepted
Contact: Michael Smith (386) 943-5360

I-95 Phase 4 (414723-1) (DASH II)
This project is for the expansion of DASH in north to US 1 in Volusia County.
Approx. Completion: Conditionally Accepted
Contact: Michael Smith (386) 943-5360

I-95 Phase 5 (414719-1) (DASH III)
This project is for the expansion of DASH south to SR 44 in Volusia County.
Approx. Completion: Under construction.
Contact: Michael Smith (386) 943-5360

I-95 Phase 6 (414721-1) (Project has been combined with DASH III)
This project builds out the ITS on I-95 in Brevard and Volusia Counties. The project limits are from

SR 514 north to SR 44, tying into the existing system.
Approx. Completion: Under construction.
Contact: Michael Smith (386) 943-5360

I-95 Phase 7
This project completes the ITS expansion in District 5 by constructing the remaining devices in Flagler County.
Approx. Completion: Firms have been short-listed
Contact: Mike Smith (386-943-5360

RTMC Video Wall and Console (416393-1-52-01)
This project provides a new video wall and 1st row console for the Regional Traffic Management Center (RTMC).
Approximate Completion: Completed
Contact: Mike Smith (386) 943-5360
Jennifer Heller (386) 943-5322

I-4 Road Rangers—Motorist Assistance Program (410957-1-72-04)
The limits of service are from the Osceola/Polk County Line to I-95 in Volusia County. There are a total of 24 Road Ranger personnel and 12 Road Ranger vehicles. District 5 has purchased FHP radios for the Road Rangers. After the radios are programmed the Road Rangers will be trained to use them. These radios are for point-to-point communication with FHP troopers.
Status: Ongoing
Contact: Jennifer Heller (386) 943-5322

• • District Six • •

Advanced Traffic Management Systems

I-95 Intelligent Corridor System Package B from SR 5 (US 1) to Miami-Dade/Broward County Line (2516821-52-01)
This design-bid-build project consisted of the installation of 7 freeway Dynamic Message Signs (DMS), 8 arterial DMSs, 85 microwave vehicle detection system (MVDS) units, 22 ramp signaling sites, 259 detector loops (121 detector loops are for the ramp signaling sites), 22 dynamic and 5 blank out trailblazers, and 13 emergency stopping sites (ESSs) The project obtained final acceptance on January 17, 2007. The construction amount was $9.8 million.
Completion Date: January 17, 2007
Contact: Rory Santana (305) 470-6934

SR 5 (US 1 Monroe County) ITS Deployment from Key West to Key Largo (4101742)
This design-build project was constructed concurrently with the I-195 and I-75 ITS deployments. The project consisted of the installation of 41 closed-circuit television (CCTV) cameras and 7 arterial DMSs. The CCTV cameras are located in Monroe County (4 on Card Sound Road, 1 on CR-905, and the remaining cameras on US 1 from MM 4 to MM 103). Final acceptance was granted on November 29, 2006. The construction start date was June 2004. Construction cost was $9.4 million.
Completion Date: November 29, 2006
Contact: Rory Santana (305) 470-6934

I-75 (SR 93) ITS Deployment from SR 826/Palmetto Expressway to Miami-Dade/Broward County Line (251685)
This design-build project was constructed concurrently with the I-195 and SR 5 (US 1 Monroe County) ITS projects. The project consisted of the installation of 7 CCTV cameras, 3 freeway DMSs, a fiber optic backbone, and 30 MVDS units. Final acceptance was granted on November 29, 2006. The project construction start date was June 2004 at a cost of $2.4 million.
Completion Date: November 29, 2006
Contact: Rory Santana (305) 470-6934

I-195 (SR 112/Julia Tuttle Causeway) ITS Deployment from I-95 to Alton Road (251683)
This design-build project was constructed concurrently with the SR 5 (US 1 Monroe County) and the I-75 ITS Deployments. The project consisted of the installation of 6 CCTV cameras, 1 freeway DMS, 3 arterial DMSs, a fiber optic backbone, and 21 MVDS units. Final acceptance was granted on November 29, 2006. The project construction start date was June 2004. Construction cost of $2.8 million.
Completion: November 29, 2006
Contact: Rory Santana (305) 470-6934

I-395 ITS Deployment from NW 7 Avenue East to Alton Road (251686)
This is a design-build project that will be constructed concurrent with the Palmetto ITS Deployment Project (414760). The project will consist of the installation of 10 CCTV cameras, 1arterial DMS, a fiber optic backbone, and 10 MVDS units. Project letting date is June 2007. Notice to Proceed will be issued in September 2007. The estimated construction project cost is $3.7 million.
Approx. Completion: Fall 2008
Contact: Sergio Bravo (305) 499-2482

Palmetto ITS Deployment from NW 25 Street to NW 122 Street (414760)
This is a design-build project that will be constructed concurrent with the I-395 ITS Deployment Project.(251686) The project will consist of the installation of 6 CCTV cameras, 3 freeway DMSs, a fiber optic backbone and 37 MVDS units. Project letting date is June 2007. Notice to Proceed will be issued in September 2007. The estimated construction project cost is $4.0 million.
Approx. completion: Fall 2008
Contact: Sergio Bravo (305) 499-2482

SR 5 (US 1) Corridor from SW 17 Avenue to SW 112 Avenue (414754-1-52-01)
This is a design-build project that will consist of the installation of 17 CCTV cameras, 4 arterial DMSs, fiber optic cable, and 6 mid-block MVDS units. The project design phase is under way and construction activities; such as, directional boring have already started. The project construction start date was September 2006 at an estimated construction cost of $ 6 million.
Approximate completion: November 2007
Contact: Sergio Bravo (305) 499-2482

Advanced Traveler Information System

Traveler Information (405663-1)
This project provides uniform, multi-modal, real-time traveler and traffic information in South Florida (Palm Beach, Broward, Miami-Dade, and Monroe Counties) under the *SunGuide*^{SM} *Program*. The *SunGuide Program* staff is presently operating (since May 21, 2004) in the Transportation Management Center (TMC) located just off the Florida Turnpike and SR 836 (Dolphin Expressway) junction. Law enforcement agencies; such as, Florida Highway Patrol, and the 511 system and staff provided through a partnership with SRS/Westwood One (FDOT's ATIS Private Partner) collocated in June 2006 to the SunGuide TMC. The 511 system features a Web site (www.511southflorida.com) that provides snapshots of real-time traffic conditions and an interactive voice response telephone system.
Contract ends on November 12, 2008.
Contact: Rory Santana (305) 470-6934

• • District Seven • •

Advanced Traffic Management Systems

US 19 Advanced Traffic Management Systems for Pasco County, Stages II and III (405165-2 and 3)
This project will complete the entire US 19 advanced traffic management systems (ATMS) project in Pasco County. It runs from Main Street to County Line Road. The adaptive signal system, SCATS, will be installed to control traffic on an area basis on 16 additional intersections. On an area basis, SCATS selects combinations of cycle time, splits, and offsets from pre-determined sets of parameters and on-line calculations. SCATS, then, directly optimizes traffic parameters for each sub-system based on measured activity, and then applies offsets to achieve coordination as appropriate across the network in the corridor to optimize traffic flow. This project includes the installation of 22 closed-circuit television (CCTV) cameras and two dynamic message signs (DMSs). A dedicated fiber optic communications network will be installed along US 19 in Pasco County and routed to the transportation management center (TMC). The project leverages the system manager contracting strategy. FDOT, with the aid of the system manager, has completed the process of procuring all field devices. This ITS project is valued at $7.5 million.
The project is currently under construction.
Approx. Completion: December 2007
Contact: Bijan Behzadi (813) 975-6733

Pinellas Countywide ATMS, Stage II (406255-2)
This project is to complete the remaining portion of the US 19 ATMS project in Pinellas County

from Haines/Bayshore to 54 Avenue North. An additional 15 intersections will be under the MIST/OPAC adaptive traffic control. The project also includes the installation of thirteen CCTV cameras and four DMSs. A dedicated fiber optic cable will be installed on US 19. The construction project was let to contract on February 2006. The project leverages the system manager contracting strategy. FDOT, with the aid of the system manager, has completed the process of procuring all field devices. This ITS project is valued at $4.0 million. This project is currently under construction.
Approx. Completion: December 2007
Contact: Bijan Behzadi (813) 975-6733

Freeway Management Systems

Tampa Bay SunGuide[SM] (TBSG) Center (407232-1 and 407232-2)
This project, 407232-1, is for the development of a regional transportation management center (RTMC) to operate freeway management systems in the Tampa Bay area. The SunGuide Center will include FHP dispatching and the District Emergency Operations. There will also be Florida Fish & Wildlife and FDOT MCCO collocating in the TBSG. The prime system manager for the Tampa Bay SunGuide Phase I projects, HNTB, was selected in June 2002. The building is located at the District 7 Headquarters on McKinley Drive in north Tampa. Low bidder, American Bridge Company, has completed the construction of the building. Final Acceptance for the building has been granted.

For 407232-2, FDOT District 7 selected the AVI / TransCore team. The TBSG Interior Systems work will include the installation of a video wall, furniture, operator consoles, testing, and systems integration. Work has started on this contract and the District 7 ITS team has begun to move into the TBSG. Conditional testing will begin during the first part of March 2007. The contract work should be complete April 2007.

FDOT District 7 ITS is operating an interim TMC inside the Traffic Operations Department in the Headquarters building during peak hours for the I-275 segment in north Tampa and the Skyway Bridge. The ITMC will add the monitoring of other completed projects as they come online. The permanent TMC operations will begin during March 2007 at the TBSG, pending an approved security plan.
Approx. Operational Date: March 2007
Contact: Bill Wilshire (813) 975-6612

Tampa Bay SunGuide Freeway Management System, Phase I (407233-1, 407233-2, 409366-1, 258643-2, and 258401-2)
These projects are for construction and installation of ITS field devices and communications for the freeway management system (FMS) on various roadway segments in the Tampa Bay region along I-275 and I-4 (31 miles of ITS-managed highways). These field devices (vehicle detectors, video cameras, and DMSs) will connect to and be managed from the TBSG Center.

The first project (407233-1) is I-275 in north Tampa from Dr. Martin Luther King Blvd. to Bearss Avenue with a fiber communications link from I-275 to the TBSG Center located at the District 7 Headquarters. The system is currently being operated during peak travel times, 5 days per week, until transitioned to the TBSG Center. By the end of March, the Interim Transportation Management Center should be relocated to its permanent home in the TBSG. Operations will shift to 16 hours per day, five days per week at this time.

The second project (407233-2), I-275 from 54 Ave. N. to Kennedy Blvd., was awarded to Traffic Control Devices and work began in August 2005. Some delays in schedule have occurred due to issues with sign structures and power services. These issues are being modified as necessary and time will be added back to the contract. Construction has an anticipated completion date of April 2007, with an operational date of June 2007.

I-4 from 50 St. to CR 579 (409366-1) is the third Phase I project which was awarded to Highway Safety Devices on May 25, 2005. Construction is complete and testing and integration has begun. This segment should be operational by April 2007.

The fourth roadway segment, I-275/I-4 from N. Hillsborough to the Downtown Interchange (258643-2), was let on June 22, 2005, and

awarded to Highway Safety Devices. Project construction is estimated to be complete in March 2007, and then integration services will occur. This segment should be operational by April 2007.

For the fifth and final Phase I project (258401-2), I-4 from W. of 14 St. to E. of 50 St., a decision has been made to include this in a roadway project (258401-1). Construction has begun and is expected to be completed in late July 2007. After integration services, this segment should be operational in the September/October 2007 timeframe.
Approximate Operational Date: December 2006 – October 2007
Contact: Bill Wilshire (813) 975-6612

Tampa Bay SunGuide Freeway Management System, Phase II (255844-2, 407233-4, 409366-2, and 410909-1)
This is the second phase for the deployment of the FMS on the Tampa Bay Interstate highways. It consists of four projects on segments of I-75, I-275, I-4, and SR 60 (37 miles of ITS-managed highways). TBE Group, Inc. is the prime system manager for Phase II projects.

The first segment is SR 60 from Courtney Campbell Causeway to Cypress Street in Tampa (255844-2). Florida Industrial Electric (FIE) was the successful bidder and construction is scheduled to begin in May 2007. This project is expected to be operational in the November/December 2007 timeframe.

The second segment is I-4 from CR 579 to Park Road (409366-2). The successful bidder was Highway Safety Devices. Construction began in July 2006 and should be complete in October 2007. Integration services will begin immediately following construction and this segment is expected to be operational in December 2007.

The third segment, I-75 from US 301 south of Brandon to Fowler Ave (410909-1), includes a telecom link along Fowler Ave. from I-75 to the TBSG Center. TransTech started construction and is scheduled to be completed with construction in late December 2007. Integration services will begin immediately following construction and this segment is expected to be operational in the first calendar quarter of 2008.

The final project, I-275 from 54 Ave. South to 54 Ave. North in St. Petersburg (407233-4), has final plans as of June 2006. However, the letting has been delayed until July 2008, due to funding issues.
Approximate Operational Date: January 2010
Contact: Bill Wilshire (813) 975-6612

Tampa Bay SunGuide Freeway Management System, Phase III (407233-5, 407233-7, 409366-3, and 409366-4)
This is the third phase of projects along the Tampa Bay SunGuide Interstate highways. It consists of segments on I-275 and I-4. URS is the system manager for Phase III. Notice to Proceed for design was issued, but the schedules have been moved out from the original dates due to funding constraints. The first letting is expected in March 2007 for I-4 from Plant City in Hillsborough County to US 27 in Polk County (32 miles).

Project 407233-5 (I-275 Sunshine Skyway) has a scheduled letting in 2011. Project 407233-7 (I-275 from Bearss Ave. to I-75) has a scheduled letting date in 2012.
Approx. Completion: Fiscal Year 2010
Contact: Bill Wilshire (813) 975-6612

Advanced Traveler Information Systems

Tampa Intelligent Transportation Infrastructure Program (ITIP) (414645-1)
A project agreement between Mobility Technologies, the pre-selected private partner per a Federal Task Order, and FDOT was completed in August 2003. It resulted in approximately 100 vehicle detection sensors being installed on Tampa Bay Interstates. These sensors are remote traffic monitoring sensors (RTMS) and provide volume and speed data by lane on the Interstates. This data is used for various purposes, such as traffic monitoring information to FHWA/FDOT and traffic reports to the public on real-time traffic conditions of travel time, speed, and congestion levels. These sensors are now providing valuable information to the 511 Tampa Bay Traveler Information service, such as travel time and speed data.

FDOT District 7 will be relocating these sensors through the requirements of their existing contract with Mobility Technologies as the

permanent ITS deployments come online. The sensors included in this contract will be moved to cover areas that will be later in receiving their permanent deployments to provide optimum coverage and data.
Approx. Completion:
Contact: Bill Wilshire (813) 975-6612

Tampa Bay Advanced Traveler Information System (ATIS) (412543-1)
After completion of an Invitation to Negotiate, an ATIS Information Service Provider (ISP) for the Tampa Bay region, Mobility Technologies, was selected and awarded the contract in June 2003. Mobility Technologies' Program Management Plan was approved by FDOT in October 2003, marking the beginning of a five-year contract providing 511 telephone service and an Internet-based traveler information service to the Tampa Bay traveling public. Launched on September 2, 2004, 511 Tampa Bay is now available via the web at www.511tampabay.com or by dialing 511 in the Tampa Bay region.

The system's marketing campaign, consisting of public service announcements, public outreach, radio advertisements, and other marketing means, started the first part of February 2005. Presentations have been made to elected officials, Florida Emergency Preparedness Association, several area Rotary clubs, and many other entities. Mobility Technologies and FDOT participated in the Governor's Hurricane Conference, Florida Emergency Preparedness Association Annual Meeting, and other local hurricane preparedness workshops in the Bay area. Mobility Technologies recently delivered 511 Tampa Bay presentations to the Sarasota/Manatee MPO Board and their respective committees to educate them on our service. As a result of these presentations, FDOT and Mobility Technologies have received more offers to speak to other organizations in the area, such as Kiwanis clubs. The final radio campaign started at the end of July to raise awareness of 511 Tampa Bay during the hurricane season. FDOT continues to seek out ways to disseminate information on 511.

Districts 7 and 1 have been working together on marketing outreach in Polk, Sarasota, and Manatee Counties since the 511 Tampa Bay service crosses District boundaries. Coverage has been expanded to cover approximately 300 additional roadway miles in Polk, Sarasota, and Manatee Counties.

Some system enhancements were made to 511 Tampa Bay based on feedback from the system users. These system enhancements should make using the service easier. A voice comment line has also been added for phone users to leave comments regarding the system. The comments received are being reviewed and, when necessary, responded to by the District 7 Public Information Office.
Contract End Date: July 2008
Contact: Bill Wilshire (813) 975-6612

Road Rangers Service Patrol (408206-1-8B-01)
Road Rangers Service Patrol in Hillsborough and Pinellas Counties was initially established in October 2000, to provide "free" highway assistance to motorists and assist in clearing freeway incidents. The District 7 patrols operate 24/7/365 and average 2,700 assists per month. Their duties include traffic control during incidents, assisting law enforcement personnel in the quick clearance of traffic incidents/accidents in order to restore smooth and efficient operation of our roadway system, and roadway debris removal. They also provide essential assistance during storm events and other emergencies.

The Directors of the Tampa Hillsborough Expressway Authority recently approved the addition of Road Ranger patrols, through the District 7 Road Ranger contract, to patrol the Lee Roy Selmon Crosstown Expressway 12-hours per day, 5-days per week. District 7 is working with the Road Ranger contractor to get the new patrols running as quickly as possible

Now that the I-4 Polk County construction phase is complete, District 1 coordinated with District 7 to make sure the needs are met for Road Ranger patrols on I-4. District 1 should be advertising their contract soon. The Road Rangers on I-4 in Polk will be dispatched and coordinated by the District 7 RTMC.
Approx. Completion: Ongoing
Contact: Terry Hensley (813) 975-6259

• • Florida's Turnpike • • • •Enterprise • •

Advanced Traffic Management Systems

Traffic Management Centers (190717-1-52-03/04/05/08)

The Pompano and Turkey Lake Traffic Management Center (TMC) facilities are staffed 24 hours a day, 7 days a week. Incident management is accomplished utilizing approximately 203 closed-circuit televisions (CCTVs), 10 highway advisory radios (HARs), 24 dynamic message signs (DMSs) along the Turnpike's mainline, 2 DMSs on the Sawgrass Expressway, and 2 DMS on the Beachline Expressway (Toll 528). TMC Team Members work closely with FHP Troop K and other agencies to detect, verify, and mitigate incidents. Advanced traveler information system (ATIS) team leaders at each facility work in close coordination with State Farm Safety Patrol operators by dispatching them on the Turnpike Mainline, Homestead Extension of Florida's Turnpike, Sawgrass Expressway (Toll 869), and Veterans Expressway (Toll 589) through a 450 MHz radio system, an automatic vehicle locator (AVL) system and Nextel radio communications. The TMC's Traffic Operations Incident Coordinator works closely with Roadway Maintenance and Construction. The Florida's Turnpike Enterprise is also part of the Florida Statewide/Central Florida 511 service and the South Florida SunGuide^{SM} 511 ATIS partnership in Miami-Dade, Broward, Palm Beach, Monroe, Martin, St. Lucie, and Indian River Counties.

The TMC, in its role as the 24-hour communications center for the Turnpike, performs essential duties to support the Florida's Turnpike Enterprise Rapid Incident Scene Clearance (RISC) program. The TMC is the official timekeeper of RISC milestones and as the hub of traffic/incident management communications. The RISC program is an innovative program that assists the Florida's Turnpike Enterprise to achieve the Open Roads Policy goals by significantly reducing the time it takes to clear major incidents through providing an incentive for the use of specialized vehicle recovery equipment and procedures. Selected recovery contractors are assigned specific sections of the Turnpike and are required to respond to and open the travel lanes within a pre-determined period, making the contractor eligible for an incentive bonus. If the travel lanes are not cleared within a period of three hours from notice-to-proceed, the contractor will be assessed liquidated damages. The Turnpike TMC is FHP's primary contact for Emergency Roadway Maintenance response.
Approx. Completion: Operations Ongoing
Contact: John Easterling (954) 934-1292

SunNav^{SM} Software Development and Integration (190766-1-32)

SunNav^{SM} Release 2.0 development began in October 2004. Subset releases began installation in March 2005. SunNav^{SM} Release 2.0 began the migration from window GUIs to incorporate a XMS/Web page client interface, maintaining many of the same features as the previous GUI. SunNav^{SM} Release 2.0 will begin to expand functionality and completely replace SunNav^{SM} Release 1.2, which was completed in November 2004, and added a NTCIP driver for DMSs and some additional diagnostic utilities for the DMSs to the features that existed in Release 1.1. Additional feature sets included enhancements for DMS, CCTV, GIS Map integration, incident management, incident response plans and reporting. Road Ranger dispatch management has already been delivered with a sub release of 2.0. Additional functions of 2.0 recently delivered include multiple simultaneous TMC control and management within the Turnpike to create load balancing for performance and also to protect the Turnpike from single TMC system failures.
SunNav^{SM} Release 2.0 also includes center-to-center control utilizing SunGuide^{SM} protocols for sharing information with other District TMCs. The SunNav^{SM} center-to-center module has been developed and further testing is scheduled when network connectivity and security issues are resolved between TMCs. Estimated time for testing is April 2007.

SunNav^{SM} Release 2.D is currently being developed to support SunNav^{SM} Release 2.0 and will provide for incident detection using non-

intrusive roadway devices capable of monitoring speed, volume, and occupancy. The SunNav[SM] software team has developed a software interface that enables the user to view the information being produced by the vehicle detectors. The current process changes the representation of the Turnpike colors to reflect current traffic conditions. Further efforts to define the rules and requirements to integrate the detectors into the Incident Management software modules are underway. The goal is to use the data generated by the VDS to suggest areas of CCTV surveillance, In addition to the aforementioned features, the flexible design of the SunNav[SM] software has provided for the development of the following software modules:

- Road Ranger / AVL (Fleet Control)
- Emergency Operations Management System
- Trouble Ticketing
- Inventory and Fleet Control
- Vehicle Detection
- Call Box Integration

The fleet control software module integrates global positioning system (GPS) locations for fleet vehicles into the SunNav[SM] spatial segment. This interface will be used to track Turnpike owned and operated equipment. The SunNav[SM] software was changed to interface with Crystal Reports. Reporting of all SunNav[SM] features is being delegated to a Crystal Reports server. Efforts are underway to develop database queries and views to enable the aforementioned capability.

The Emergency Operations Management module has been tailored to the unique needs of the Turnpike's Emergency Operations Center to enable the organization to integrate incident management information and CCTV feeds into its operations. In addition, the SunNav[SM] map will be used in support of EOC operations for tracking of resources, locations of needs and events.

The trouble ticketing software module will provide the incident management operators with the ability to create a trouble ticket as soon as a system failure is identified. The inventory control segment will enable operators to associate equipment with a specific ITS equipment location using a geographic information system (GIS) map.
Approx. Completion: SunNav[SM] Releases: 2.0 – Substantial delivery February 2006; 2.3 (AVL/Road Rangers Upgrade) – End of March 2007; 2.4 (Trouble Ticket and Inventory) – End of April 2007; 2.5 (LDAP) – May 2007; 2.6 (Call Box Interface) – November 2007; 2.7 (EMS) – End of March 2007
Contact: John Easterling (954) 934-1292 or Wilfredo Corchado (407) 264-3489

Automated Vehicle Location (AVL) System
The existing Turnpike Road Rangers' AVL system is integrated with both TMC facilities. The current AVL system provides the Turnpike TMC with Road Rangers' location information enabling more efficient response to incidents on the Turnpike by dispatching the closest available mobile asset(s). The AVL system also provides the TMC with accurate vehicle speed of Turnpike monitored vehicles to help determine traffic flow. The AVL system collects vital information and delivers this information to the TMC in "real time." AVL has been installed and implemented at both the Turkey Lake and Pompano TMC facilities. The Turnpike TMC and ITS group is currently reviewing AVL software upgrades to provide AVL information integration into the SunNav[SM] System to make the system more efficient, and provide additional information fields to the TMC with minimal effort on the part of the service patrol. Reporting enhancement efforts are on-going.
Approx. Completion: On-going
Contact: John Easterling (954) 934-1292

SunNav[SM] ITS Phase III Sawgrass Expressway Fiber Project (406119-1-52-01, 406119-3-52-01 and 406119-4-52-01)
This project will provide a fiber optic communications system along with a video monitoring system, a vehicle detection system, and a DMS system along the entire Sawgrass Expressway from MP 0 to MP 21.8. The project will also require the construction of a communications hub and will provide communications connectivity to the Florida's Turnpike Enterprise microwave towers and toll plazas within the project limits. The ITS

communications infrastructure for the segments will consist of installing a conduit along both sides of the roadway with a 96-fiber cable for communications backbone/distribution and three additional conduits for future uses. The fiber optic communication system will be installed along both sides of the Sawgrass Expressway to provide redundancy for the Office of Toll Operations. The project has been broken into three parts for bidding purposes. Two of the three sections will be let as a part of design build roadway widening projects. Using the Adjusted-Score Design Build procurement method the Turnpike has hired Miller Electric Inc. as the Design-Build Team for the ITS only section of the project and APAC, with Miller Electric Inc. as the ITS sub-contractor, as the Design-Build Team on the Coral Ridge to the Mainline Widening Project. The third part of the project was awarded to Community Asphalt, with TransCore as the ITS sub-contractor. The project has been supplemented to include a wireless communications connection between the southern section of the Sawgrass Expressway and the Turnpike mainline. All work associated with the ITS only section has been completed; all testing has been verified; and all required project documentation has been submitted. The project was accepted on February 21, 2007.
Completed: February 2007
Contact: John Easterling (954) 975-4855 ext. 1292 or Ernest Sackey (407) 264-3459

SunNav[SM] ITS Phase IV Turnpike Mainline from MP 155-227 and MP 227-309 (406120-1-52-01 and 406120-3-52-01)
This project has been broken into two segments and will provide a fiber optic communications system with video monitoring cameras along the Florida's Turnpike Enterprise mainline from MP 155 to MP 227 and MP 227 to MP 309. The goals for this project are to complete the Turnpike mainline communications deployment and to provide 100 percent video coverage of the roadway by installing CCTV cameras at approximately one-mile intervals.

The communications infrastructure for this project will consist of installing conduit along one side of the roadway with a 96-fiber cable for communications backbone/distribution and three additional conduits for future uses. The project will integrate eight DMSs with the Pompano and Turkey Lake TMC facilities, the toll plazas, and the microwave towers within the project limits. Miller Electric Inc. with FR Aleman has been selected as the Design Build Contractor for both projects. Notice to Proceed was issued in late October 2005. All major construction work has been completed. Testing of fiber backbone and CCTV cameras is on going.
Approx. Completion: April 2007
Contact: John Easterling (954) 975-4855 ext. 1292 or Ernest Sackey (407) 264-3459

SunNav[SM] ITS South Florida Part A ITS Improvements (406119-2-32-01)
This project will include fiber optic cable, DMS, CCTV, vehicle detection, and HAR deployment on the southern portion of the HEFT from Milepost (MP) 0 to MP 7 and on a section of the Golden Glades Spur. The project will also deploy vehicle detection technologies in Miami-Dade, Broward, and Palm Beach Counties and will complete the CCTV installation in the Phase I project limits within Palm Beach and Miami-Dade Counties. The Turnpike's design consultant has completed and submitted final plans. Project selection occurred in December 2006 using the Low Bid procurement method and the project was awarded to Miller Electric Inc.. A Notice to Proceed of March 4, 2007, has been issued and construction should begin soon.
Approx. Completion: April 2008
Contact: John Easterling (954) 975-4855 ext. 1292 or Juan Kuthy (954) 934-1295

SunNav[SM] ITS Central and West Florida ITS Improvements (406120-2-32-01)
This project has been broken into two sections. The off mainline facilities in the Orlando area have been grouped into one project and the facilities in Lakeland and Tampa have been grouped into a second project. The projects will install a fiber optic communications system along one side of each roadway along with a full implementation of CCTV cameras, DMSs, and vehicle detection devices on all of the facilities. The projects will also incorporate the needs of other Turnpike groups, such as Office of Tolls. The Turnpike awarded these projects to: TransTech Electric for the Central Florida ITS Project and Miller Electric for the West Florida ITS Project. Construction work is on going.

Approx. Completion: January 2008
Contact: John Easterling (954) 975-4855 ext. 1292 or Juan Kuthy (954) 934-1295

Vehicle Detector Station (VDS) System (406123-1-52-01)
The goal of this project is to install a vehicle detection technology on the Florida's Turnpike mainline from MP 117 to MP 309 to determine vehicle speed, density, and volumes. This information will assist the TMC facilities in identifying congested areas and allowing them to take appropriate actions such as posting DMS or HAR messages. The project also includes the installation of equipment to calculate travel times between DMSs and the major interchanges and other important points on the Turnpike mainline. The Turnpike's design consultant has completed and submitted final plans. Project selection occurred in December 2006, using the Low Bid procurement method and the project was awarded to Miller Electric Inc. A Notice to Proceed of February 18, 2007, has been issued and construction should begin soon.
Approx. Completion: June 2008
Contact: John Easterling (954) 975-4855 ext. 1292 or Juan Kuthy (954) 934-1295

Dynamic Message Sign Project (406124-1-52-01)
The objective of this project is to design and install additional DMSs in those areas along the Turnpike Mainline that do not already have DMS coverage. In addition, the project will include some arterial DMSs approaching the Turnpike Mainline as well as information displays at the Turnpike's Service Plazas. The Turnpike's design consultant has completed and submitted final plans. Project selection occurred in November 2006, using the Low Bid procurement method and the project was awarded to Traffic Control Devices Inc.. A Notice to Proceed of February 4, 2007, has been issued and construction should begin soon.
Approx. Completion: September 2008
Contact: John Easterling (954) 975-4855 ext. 1292 or Juan Kuthy (954) 934-1295

Broward County Camera Project (417121-1-52-01)
The project will provide approximately 18 CCTV cameras at 1 mile spacing along the Turnpike mainline in Broward County from MP 40-53 and MP 66-74. The recent installation of fiber optic cable in the proposed project limits will provide the communication link from the CCTV cameras to the Pompano TMC facility. Miller Electric Inc. with FR Aleman has been selected as the Design Build Contractor for this project. All major construction work is completed and final testing is on-going.
Approx. Completion: March 2007
Contact: John Easterling (954) 975-4855 ext. 1292 or Ernest Sackey (407) 264-3459

Traffic Management FHP Lake Worth Dispatch Center Operator
Florida's Turnpike Enterprise TMC has permanent staffing at the FHP Troop K, Lake Worth Dispatch Center. Three full-time FHP Dispatch TMC Team Members are committed to the FHP Dispatch Center, thus improving service to Turnpike customers. FHP Dispatch TMC Team Members are staffed at the dispatch center Monday through Friday between 6:00 a.m. and 10:00 p.m., Wednesday through Saturday overnight, and Sunday afternoon/evening. As liaisons between FHP and the TMC, FHP Dispatch TMC Team Members work in conjunction with the Turnpike's TMCs and facilitate sharing of incident status information between FHP and the TMCs. The coordination between FHP Dispatch TMC Team Members and FHP dispatchers and troopers enables the TMC to assume a more proactive role in the management of incidents along its roadways in terms of emergency verification and response, dissemination of traveler information, and other agency notifications. This accurate and timely exchange of information has resulted in the enhanced operation of the Turnpike's ITS devices and more efficient resource sharing. Lake Worth Dispatch Center expansion plans are currently being developed with the intent that the TMC will have up to two assigned console positions and video wall control.
Approx. Completion: On-going
Contact: John Easterling (954) 934-1292

Turnpike Enterprise State Farm Safety Patrol (part of Road Ranger Program) (411451-1-78-02)
The Florida's Turnpike Enterprise's TMC dispatches State Farm Safety Patrol on the Turnpike Mainline, Homestead Extension of

Florida's Turnpike, and the Sawgrass Expressway (Toll 869). Road Rangers are dispatched on the Seminole Expressway/ Southern Connector Extension (Toll 417), Beachline Expressway (Toll 528), Western Beltway (Toll 429), and the Veterans Expressway (Toll 589). State Farm Safety Patrol and Road Rangers provide free service 24 hours a day, 7 days per week. Units are dispatched by the TMC via 450 MHz radio (primary mode of communication) and Nextel Direct Connect (back-up communication) systems and are tracked via an AVL system.
Approx. Completion: On-going
Contact: John Easterling (954) 934-1292

Public Information Display and Florida's Turnpike Website
Florida's Turnpike ITS provides several public information displays (PIDS) of real-time traffic information from the TMC's system at the Pompano Beach Service Plaza and in the Turnpike's offices in Turkey Lake and Pompano. These pilot PIDS contain relevant, real-time traffic information including a listing of incidents within close proximity and real-time traffic monitoring video feed. The displays also promote use of the 511 and SunPass programs. Also, Turnpike ITS has recently enhanced the Public Information Office's internet website (www.floridasturnpike.com) by hosting real-time traffic information to the public, which can be accessed from home, office, portable or PDA connections to the internet. The website contains a listing of current incidents, construction events, DMS messages, CCTV images and a map interface to display this information.
Completion: On-going
Contact: John Easterling (954) 934-1292 or Wilfredo Corchado (407) 264-3489