



SunGuide™ Disseminator



FDOT ITS District Progress Reports

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

• • *District One* • •

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 Design Build Requirements Package is complete, but may undergo minor revisions to provide coordination with an upcoming Manatee County Fiber Installation Project.

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 Public Safety Traffic Management Center Building is substantially complete. The temporary certificate of occupancy was issued on July 18, 2007. The certificate of occupancy projected date is October 1, 2007.

Approx. Completion: October 2007
Contact: Chris Birosak (863) 519-2507

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Florida Department of Transportation
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>



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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. Phase II cabinets and cameras are installed and fiber is being pulled throughout the length of the project.

Approx. Completion: December 2007

Contact: Mark Roberts (863) 519-2591

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 and awaiting a decision from the City of Winter Haven on the advancement of funding for the construction phase. 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 32 01)

This Invitation to Negotiate (ITN) project will provide operations and marketing support for the new advanced traveler information system (ATIS) system covering Charlotte, Lee, and

Collier Counties in Southwest Florida. Included in this project is the deployment of an automated data collection system on I-75 in Charlotte, Lee, and Collier Counties to provide additional traffic flow information to the new Southwest Florida ATIS. Additionally, this project will provide resources to support the expansion of the existing Tampa Bay ATIS in Manatee (I-75), Sarasota (I-75), and Polk (I-4) Counties. The data fusion software 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 as a separate project. The new Southwest Florida 511 ATIS was launched 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: Don Olson (863) 519-2274

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



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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 throughout the length of the project has been installed and the fiber installation has begun. The construction on the RTMC is expected to be complete by the end of 2007.

Approx. Completion: January 2008
Contact: Chris Birozak (863) 519-2507

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. The RFP Bid Package was advertised in April. Contract to be executed by October 2007.

Approx. Completion: June 2008
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. The contract was executed in June 2007. The contract award was given in June 2007. Work to begin in August on the initial document development.

Approx. Completion: 2012
Contact: Katherine Duvall (863) 519-2726

Incident Management

Road Rangers Service Contact, Collier County (408562 1 72 01) (part of the District One asset management contract as a sub-contract)

This is the service contract for I-75 including Alligator Alley that provides service from the US 27 tollbooth in Broward County through Collier County to Exit 116 in Lee County.

Approx. Completion: Effective until the term of the asset management contract ends on September 30, 2007

Contact: Don Olson (863) 519-2274

Road Rangers Service Contract, Lee County/Charlotte County (408998 1 72 01) (part of the District One asset management contract as a sub-contract)

This is the service contract for I-75 in Lee County that provides service from Exit 116 to Exit 138. The Design / Build / Finance construction project (420655-1-52-01) on I-75 from Golden Gate Parkway in Collier County to Colonial Blvd. in Lee County will provide Road Ranger Services beginning October 1, 2007 until project completion in the summer of 2011.

Approx. Completion: Effective until the term of the asset management contract ends on September 30, 2007

Contact: Don Olson (863) 519-2274

Road Rangers Service Contact, Sarasota County/Manatee County (409000 1 72 01) (part of the District One asset management contract as a sub-contract)

This is the service contract for I-75 in Charlotte and Sarasota Counties that provides service from Exit 170 to Exit 205.

Approx. Completion: Effective until the term of the asset management contract ends on September 30, 2007

Contact: Don Olson (863) 519-2274

Road Rangers Service Contract, Polk County (422263 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. Contract extension agreement began 7/1/2007 until 12/31/2007.

Approx. Completion: Current contract will end September 30, 2007, at the will of the FDOT.

Contact: Don Olson (863) 519-2274

Districtwide Road Rangers Service Contract, (422286 1 72 01)

This is the service contract for Road Ranger Service Patrol on Interstate roadways in District 1 and the Sunshine Skyway Bridge. The RFP Bid Package was advertised in July 2007 with a start work date of October 1, 2007. This project will be separate from asset maintenance



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contracts and will be managed by the District 1 Traffic Operations Division.

Approx. Completion: June 30, 2012
Contact: Don Olson (863) 519-2274

ITS Planning and Project Development

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 Birozak (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 (on going)
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 (on going)
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 (on going)
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 (on going)
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



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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

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. The Central Office Statewide ITS General Consultant, PBS&J, was given the task of designing the project and procurement documentation. The project was awarded to World Fiber and they are on schedule to complete the work by December. Approx. Completion: December 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. This project will require our maintenance contractor to deploy devices that meet current ITS standards developed by FDOT. Metric Engineering, the District GEC's, sub-consultant will assist with the design. Devices were purchased using the Statewide ITS Equipment Procurement Contract and will be installed by the ITS Maintenance Contractor this October/November. 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 provided the Project Manager; however numerous government agencies within the region participated in Scope of Work development and selection of the consultant. Telvent Faradyne was selected to perform the work and the project was completed May 2007. A copy of the master plan can be accessed at www.fcmpo.com.

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 transportation management center (TMC) consultant to handle



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networking duties, software integration/management, TMC performance tracking, traffic incident management, and assistance with segmental ITS projects. Assistance with the overall ITS program development is also required. The consultant selected for the contract was Metric Engineering. Metric began work for the TMC in May 2007.
Contact: Peter Vega (904) 360-5463

District Two VI 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. Telvent Abengoa was selected to perform the design. 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

- PBS&J (Central Office ITS General Consultant) has completed 100% design
- Design Anticipated to be Complete – September 2007
- Letting Date – March 2008

Phase III

- Upon completion of phase 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 was initially envisioned to include the delivery of ITS services within a long term regional Asset Maintenance contract for Escambia County. The selected contractor would have been 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 included 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 project was planned for deployment 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 would have required the contractor to deploy ITS field devices that meet current ITS standards developed by FDOT and include, but not be limited to, closed-circuit television (CCTV) cameras, dynamic message signs (DMS), road weather information systems (RWIS), and traffic detection units. Road Ranger service patrols were also to be included within the Asset Maintenance portion of the contract. The term of

• • District Three • •

Advanced Traffic Management Systems

Bay County ITS Integration Project / Congressional Earmark Phase II (408412-4)

Currently, a Plans, Specifications, and Estimates (PS&E) package is under development for Phase II of the Bay County Advanced Traffic Management System (ATMS), 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. 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



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the ITS / Asset Maintenance contract was to be 10-years with a 10-year renewal period.

In April 2007, the District 3 Award Committee voted to reject all bids for this project. This project is being reviewed for necessary changes and the work within this project will be re-advertised, possibly in a different format.

Approx. Completion: To be determined
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 FMS and associated 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 includes the design and installation of ITS field elements, including DMSs, CCTV cameras, microwave detection, and fiber optic communications cable and transmission equipment, along I-10. The FMS will also include 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 to address 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, and 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.

The City of Tallahassee, through its competitive bidding process, will procure the services of a Systems Manager to oversee the FMS and RTMS projects. The Systems Manager will act as a representative for the city and the role of the Systems Manager will be flexible and contoured to meet the specific needs of the projects. The Systems Manager will administer and oversee other consultant/contractor team(s) associated with the FMS and RTMC projects, which may include a design-build team or a series of firms that have individual contracts, and will be able to perform the entire project from design through integration and testing. The Systems Manager may be required to develop very limited conceptual plan sets, which would then form the basis for a design-build contract.

Collocation alternatives are being investigated and a System Manager scope is currently being drafted.

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



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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 SunGuideSM TMC and will also encompass the operations of the new Palm Beach County TMC that is scheduled to open in late fall 2007.

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 in the selection process and will be given notice to proceed in August/September 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 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 5 Year Regional Traffic Incident Management (TIM) Strategic Plan has been finalized to guide the team's activities and help the team achieve it's goals and objectives by creating performance measures and milestones. The plan is based on, and incorporates, the Statewide TIM Strategic Plan. A Memorandum of Understanding (MOU) has been developed which states that all agencies participating in the Regional TIM Team meetings agree to work in coordination and cooperation to share resources



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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 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) 847-2797

Severe Incident Response Vehicle (SIRV) (422332 1 82 01)

This project was advertised in June 2007 and went to Final Selection on July 16. Negotiations began with the selected firm on July 23. The project will provide two Severe Incident Response Vehicles (SIRV), three SIRV operators, and one SIRV supervisor to respond to Levels 2 and 3 incidents on the interstates in Broward County. Once on scene, SIRV becomes the Incident Commander for FDOT activities. They are used as other agencies' point of contact for anything needed from FDOT and provide coordination among responders. The project is funded at \$638,000 annually.

Approx. Completion: September 2010
Contact: Gaetano Francese (954) 847-2797

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 will be installed and tested in the Road Ranger vehicles in August 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. A supplemental agreement has been executed to provide a roving Road Ranger supervisor to monitor Road Ranger activities, provide backup, and re-supply Road Ranger vehicles in the field.

Approx. Completion: Current contract ends September 2007

Contact: Gaetano Francese (954) 847-2797

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 will be installed and tested in the Road Ranger vehicles in August 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) 847-2797

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-



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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 ITS devices along the 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 early 2008.

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 was advertised in July 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 August 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 weather system, and HAR along I-95 and I-75 within Broward County as well as some DMSs at arterials in the county. The RFP was completed by FDOT is will be advertised in September, 2007

Approx Completion: December 2011
Contact: Dong Chen (954) 847-2796

• • District Five • •

Advanced Traffic Management Systems

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

iFlorida

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

National Evaluation

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

Project Status: Working to begin final analysis of project and data collected for project.

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 iFlorida.

Project Status: Providing consultant with data to begin project.



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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: Providing consultant with data to begin project.

Project Status: Working with FHWA to extend contract to complete the above tasks. The no cost extension will be until October 2008.

Contact: Mike Smith (386-943-5360)

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

Freeway Management Systems

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: Operational and completed.

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: Operational and completed.

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.

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: Construction completed July 2007. Begin integration July 2007.

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: Notice to proceed is July 2007.

• • District Six • •

Advanced Traffic Management Systems

I-395 ITS Deployment from I-95 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 closed-circuit television (CCTV) cameras, 1arterial dynamic message sign (DMS), a fiber optic backbone, and 10 microwave vehicle detection system (MVDS) units. Project letting date is November 2007. Notice to Proceed will be issued in February 2008. The estimated construction project cost is \$3.7 million.

Approx. Completion: Fall 2009

Contact: Sergio Bravo (305) 499-2482

Palmetto ITS Deployment from NW 25 Street North to I-75 (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 November 2007. Notice to Proceed will be issued in February 2008. The estimated construction project cost is \$4.1million.

Approx. completion: Fall 2009

Contact: Sergio Bravo (305) 499-2482



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SR 5 (US 1) Corridor from SW 17 Avenue South 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. Construction activities involve installation of fiber optic conduit and procurement of ITS devices. 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

District Wide Intelligent Transportation Systems (ITS) Operations Support Services Contract (250115-3-32-01 and 417740-1-82-02)

The purpose of this contract is to retain a qualified consultant for the management and operations of the FDOT District Six ITS. The consultant will be responsible for providing services, such as, but not limited to: monitoring traffic conditions on Miami-Dade and Monroe Counties roadways via CCTV cameras and vehicle detection systems, disseminating traveler information via DMSs, dispatching Road Ranger Service Patrol vehicles to accident or incident scenes, providing Information technology support, and traffic operations and ITS engineering support services to the District.

Contract Length: 5 years
Contract Advertisement Date: August 9, 2007
Procurement Budget: \$15,100,000
Contact: Javier Rodriguez (305) 470-5341

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 SunGuideSM 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



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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

Plant City ATMS (414990-1)

This project reflects development and deployment of the Plant City ATMS for enhancing traffic management in conformance with the *Tampa Bay Regional ITS Architecture (TBRIA)*, *Plant City ATMS Feasibility Study*, and *Plant City ITS Concept and Evaluation Report*. The design and construction of this project will involve deployment of a TMC and ATMS field devices, including: 48 advanced traffic controllers and associated cabinets equipped with uninterrupted power supply (UPS) and battery backup, CCTV cameras, and dynamic trailblazer signs to be linked to the city's TMC using the Plant City-owned fiber optic communications media. The scope of this project is to help develop the Plant City TMC and interconnected ATMS elements via the city's existing fiber optic communications infrastructure. The purpose of the project is to deploy central and strategically located ATMS field devices to enable the city to proactively monitor, manage, and operate recurrent congestion, special events, and I-4 incidents causing traffic diversion along the city's arterial street system. The TMC will include a video wall, TMC server, Ethernet switches, workstations, and digital video encoder and decoder. The cost of this project is approximately \$2,200,000 and will be let to contract in March 2008.

Contact: Bijan Behzadi (813) 975-6733

Freeway Management Systems

Tampa Bay SunGuideSM (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 MCOO

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. Conditional testing of the TBSG interior systems work, including the video wall, operator consoles, and systems integration, was completed in April, 2007.

As of July 26, 2007, the FDOT District 7 ITS is operating the TBSG RTMC 24-hours per day, 7-days a week, 365-days a year. The RTMC will add the monitoring of completed projects as they come online.

Equipment is currently being installed for the State Law Enforcement Communications Center portion of the RTMC. Tentative date of completion is August 15, with occupancy immediately thereafter.

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. Deployment and integration on this segment is complete and being operated 16 hours per day, five days per week. This segment is being maintained through the District Device Management contract.

The second project (407233-2), I-275 from 54 Ave. N. to Kennedy Blvd., was awarded to



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Traffic Control Devices. Construction was completed in April 2007. The project is currently in the testing and integration phase, with an expected operational date of October 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 August 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 August 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 was made to include the infrastructure deployment for this segment in a roadway project (258401-1). Construction was completed in July 2007. The device installation for this segment will take place under the phase II deployment FPN #409366-2, with an expected completion of device installation in December 2007.

Approximate Operational Date: March 2008
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 August 2007. This project is expected to be operational in the February 2008.

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: Robert Lopes (813) 975-6700

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.

Projects 409366-3 and 409366-4 include I-4 from Plant City in Hillsborough County to US 27 in Polk County (32 miles). These projects were let together and awarded to World Fiber, Inc. in March 2007. Both are currently under construction and expected to be completed in February 2008. Integration services will begin immediately following construction and this segment is expected to be operational in August 2008.

Project 407233-5 (I-275 Sunshine Skyway) has a scheduled letting in 2012.

Project 407233-7 (I-275 from Bearss Ave. to I-75) has a scheduled letting date in 2011.

Approx. Completion: Fiscal Year 2013
Contact: Robert Lopes (813) 975-6700



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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,



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and roadway debris removal. They also provide essential assistance during storm events and other emergencies.

During this period, the Road Ranger began patrol of the Lee Roy Selmon Crosstown Expressway 12-hours per day, 5-days per week.

As of July, the District 7 Road Rangers expanded their coverage area to include all of I-275 north to the I-75 junction and I-75 from Bruce B. Downs to SR 56. This coverage is for 7-days per week, 16-hours per day. In addition, the existing I-75 16-hours per day coverage has been expanded to 7-days per week.

On July 26, 2007, the TBSG RTMC began 24-hour, 7-days a week, 365-days a year dispatch of the Road Rangers in District 7. When District 1 begins their new contract, the District 7 RTMC will also be responsible for dispatching the District 1 Road Rangers on I-4
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 317 closed-circuit televisions (CCTVs), 10 highway advisory radios (HARs), 24 dynamic message signs (DMSs) along the Turnpike's mainline, 2 DMS 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 Turnpike's Roadway Maintenance and Construction units. Florida's Turnpike Enterprise is also part of the Florida Statewide/Central Florida 511 service and the South Florida SunGuideSM 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 Florida's Turnpike Enterprise (FTE) 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 FTE 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 and Jim Hilbert (407) 264-3312

SunNavSM Software Development and Integration (190766-1-32)

SunNavSM Release 2.0 development began in October 2004. Subset releases began installation in March 2005. SunNav 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 Release 2.0 will begin to expand functionality and completely replace SunNav Release 1.2, which was completed in



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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 Release 2.0 also includes center-to-center control utilizing SunGuide protocols for sharing information with other District TMCs. The SunNav center-to-center module has been developed and initial testing performed with District 4's SunGuide center-to-center software modules.

SunNav Release 2.0 is currently being developed to support SunNav Release 2.0 and will provide for incident detection using non-intrusive roadway devices capable of monitoring speed, volume, and occupancy. The SunNav 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. The SunNav software has been equipped with an "ALPHA Page Module". This capability enhances the SunNav reporting features by automatically generating a text page that is emailed to both regular and text page mail accounts. In addition to these features, the flexible design of the SunNav 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 spatial segment. This interface will be used to track Turnpike owned and operated equipment. The SunNav software was changed to interface with Crystal Reports. Reporting of all SunNav 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 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 Releases: 2.6 (Call Box Interface) – November 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



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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 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. Road Ranger reports are being generated on demand using the SunNav – Crystal Reports server interface.

Approx. Completion: On-going

Contact: John Easterling (954) 934-1292

SunNavSM 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 FTE 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 work has been completed; all testing has been verified; and all required project documentation has been submitted. The project was accepted on June 29, 2007.

Completed: June 2007

Contact: John Easterling (954) 934-1292 or Juan Kuthy (954) 934-1295

SunNavSM 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 work is on-going.

Approx. Completion: April 2008

Contact: John Easterling (954) 934-1292 or Juan Kuthy (954) 934-1295

SunNavSM 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) 934-1292 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



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awarded to Miller Electric Inc. A Notice to Proceed of February 18, 2007, has been issued and construction work is on-going.

Approx. Completion: June 2008

Contact: John Easterling (954) 934-1292 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 work is on-going.

Approx. Completion: September 2008

Contact: John Easterling (954) 934-1292 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 work has been completed; all testing has been verified; and all required project documentation has been submitted. The project was accepted on March 30, 2007.

Approx. Completion: March 2007

Contact: John Easterling (954) 934-1292 or Juan Kuthy (954) 934-1295

Sawgrass Expressway ORT Smart Highways Project (42089-2-52-01)

This Design-Build project was recently awarded to the Miller Electric/Metric Engineering Team after a competitive process. FTE's vision for the Sawgrass Expressway (SR 869) is to become "the prototype user financed highway for the

21st century." The migration of SR 869 to a "smart" highway is essential in achieving this vision. A smart highway can be defined as a facility that has a smart infrastructure, intelligent vehicles, telecommunications, information services (decision quality information), and can be accomplished through both high- and low-tech solutions. This project is one of the first steps in such a transformation.

The project will design, construct, and integrate the following four deployments as part of the Smart Highway Initiative on SR 869: 15 arterial dynamic message signs (ADMS), 2 road weather information system (RWIS) stations, 17 automatic vehicle identification/transponder reader locations to support the travel time system and 2 passive speed monitoring system (SMS) sites. The SMS will be an advisory system positioned alongside the roadway to capture a vehicle's speed and display the travel speed directly back to the motorist. An amber beacon is included along with the variable message signs and will flash when the observed speed exceeds a configurable limit over the speed limit.

Approx. Completion: August 2008

Contact: John Easterling (954) 934-1292 or Juan Kuthy (954) 934-1295

Southern Turnpike Arterial DMS Expansion Project (406121-1-52-01)

FTE is preparing to enter a competitive selection process for a Design-Build firm to design and construct 10 arterial DMSs on arterial roads in advance of the Turnpike system in Miami-Dade, Broward, and Palm Beach Counties for the purpose of providing information on Turnpike Mainline traffic conditions, detour routes, lane/road closure, special event traffic, construction, route diversion, and weather alerts to motorists. It is the FTE's preference that the arterial DMSs communicate back to the TMC via a wireless connection to the existing fiber optic network. The selection method will be via an adjusted score process that considers Bid Price Proposal and Technical Proposal Score.

Advertisement Date: August 2007

Anticipated Award: December 2007

Approx. Completion: January 2009

Contact: John Easterling (954) 934-1292 or Juan Kuthy (954) 934-1295



FDOT ITS District Progress Reports



August 2007

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. The FHP Dispatch Center is staffed by TMC Team Members, covering 3 shifts, from 6:00 a.m. to 2:30 p.m.; 2:00 p.m. to 10:30 p.m.; and 10:00 p.m. to 6:30 a.m. 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 enable the TMC to assume a more proactive role in incident management 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: Mari Soper-Bojan (954) 934-1148

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. In addition to these efforts, an enhanced version of the PIDS application was developed. This new interface is capable of decoding two videos and provides an integrated incident report feature. Further development requirements are on the way to accommodate the needs of the Turnpike's Executive Office.

Completion: On-going

Contact: John Easterling (954) 934-1292 or Wilfredo Corchado (407) 264-3489