

# TIP

TRANSPORTATION IMPROVEMENT PROGRAM 2010

*Citizen's  
Version!*





**TRANSPORTATION IMPROVEMENT PROGRAM  
FISCAL YEARS 2009/2010 to 2013/2014**

**CITIZEN'S VERSION**

**METROPOLITAN PLANNING ORGANIZATION FOR THE MIAMI  
URBANIZED AREA**

**2010 TIP**

**Citizen's Version**

**May 28, 2009**

This document was prepared by the Metropolitan Planning Organization for the Miami Urbanized Area in collaboration with the Florida Department of Transportation, Miami-Dade Expressway Authority, Florida's Turnpike Enterprise, South Florida Regional Transportation Authority, Miami-Dade County Public Works Department, Miami-Dade Transit, Miami-Dade Planning and Zoning Department, Miami-Dade County Aviation Department, Miami-Dade Seaport Department, Miami-Dade Department of Environmental Resources Management, Miami-Dade County Office of Strategic Business Management, and the Miami-Dade County Developmental Impact Committee.

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As well as Miami-Dade County, Florida.



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# Table of Contents

	<u>Page(s) #</u>
Message to the Reader	3
About this document	3
What is the TIP	3
TIP: Putting the Long Range Transportation Plan into Action	3
 InteractTIP - How to access the TIP on the web?	 5
The TIP's Mechanics:	
Why is there a TIP?	4
Who prepares the TIP?	4
How does the TIP work?	4
TIP Consistency	5
What fiscal years does the TIP include?	5
What does the TIP include?	5
Who participates in putting the TIP together?	5
 The TIP's Technicalities:	
Who must approve the TIP locally?	6
Who must approve the TIP at the State level?	6
Who must approve the TIP at the federal level?	6
Where does the MPO get its authority?	6
TIP Program Funding:	
Where does Highway funding come from?	6
Where does Transit funding come from?	6
 FY 2010-2014 TIP Review by Transportation Agencies	 7
Primary State Highways and Intermodal Projects	8, 9, 10, 11, 12, 13, 14, 15, 16, 17
Miami-Dade Expressway Authority (MDX)	18, 19, 20
Florida's Turnpike District Improvements	21
Secondary Road Improvements	22
Road Impact Fee Improvements	23, 24
Local Option Gas Tax (LOGT) Improvements	25
People's Transportation Plan Improvements by Public Works	26, 27
Private Sector Improvements	28
Airport Development Improvements	29
Multimodal Seaport Development	30, 31

## Table of Contents (Continued)

	<u>Page(s) #</u>
Public Transportation Improvements	32, 33, 34, 35
South Florida Regional Transportation Authority	36, 37
APPENDIX A: Completed Projects	39
Florida Department of Transportation District 6	40, 41, 42
Florida's Turnpike Enterprise	43
Miami-Dade Expressway Authority (MDX)	43
Miami-Dade County Public Works Department	44
APPENDIX B: Under Construction Projects	45
Florida Department of Transportation District 6	46, 47, 48, 49
Florida's Turnpike Enterprise	49
Miami-Dade County Public Works Department	50
Miami-Dade Expressway Authority (MDX)	51, 52, 53, 54, 55



# A CITIZENS° GUIDE TO THE TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

Photo by Miami-Dade County Photographers



## MESSAGE TO THE READER

Thank you for your interest and participation in the Miami Urban Area transportation planning process and in particular the Transportation Improvement Program (TIP).

## About this document

This document is titled the “Transportation Improvement Program” and also known as the “TIP”.

## What is the TIP?



The TIP is a staged multi-year program that prioritizes transportation improvement projects for federal, state and local funding. The TIP is also the capital improvements element of the long range transportation plan (LRTP). The TIP has a role in putting the LRTP into action.

## TIP: Putting the Long Range Transportation Plan into action

Photo by Miami-Dade County Photographers



Picturing the projects contained in the 2030 Long Range Transportation Plan (LRTP) for Miami-Dade County as a warehouse full of transportation projects for the next 20-plus years, the TIP is the vehicle that carries those projects to market.

The TIP not only lists specific projects, but also the anticipated schedule and cost for each project. Like the LRTP, the projects in the TIP must be financially constrained, undergo a series of evaluations, and include opportunity for public comment.

Once compiled, review of the TIP begins. During this period of time there is a 30-day public review.

The TIP is a changing document. Frequently, projects may be added to meet changing priorities or to take advantage of a special opportunity. For this reason, the TIP may be changed after it is approved. It can be amended in order to add, change or delete projects for a variety of reasons. Amendments to the TIP must undergo the same review and public scrutiny as the original TIP

## How to access the TIP on the web?

The Transportation Improvement Program (TIP) document may be accessed through the website in the following manner:

- By visiting the MPO website at [www.miamidade.gov/mpo](http://www.miamidade.gov/mpo) - select "Downloads" from menu and get the Transportation Improvement Program documents.



Photo by Miami-Dade County Photographers

## The TIP's Mechanics



### **Why is there a TIP?**

The U.S. Department of Transportation will not approve use of federal funds for an improvement unless the project is identified in the TIP. Inclusion in the TIP does not, however, guarantee federal funding. The TIP is fiscally constrained with reasonable estimates of project costs balanced against anticipated funding. Projects not funded by the federal government are included in the TIP to provide a more comprehensive picture of the proposed allocation of transportation funds in the region.



Photo by Miami-Dade County Photographers



### **Who prepares the TIP?**

The TIP is prepared by the Metropolitan Planning Organization (MPO) in cooperation with local transportation agencies. The Metropolitan Planning Organization (MPO) is the agency designated by the Governor of the State of Florida and certified by the federal government to carry out metropolitan transportation planning. The TIP is one of the MPO responsibilities.



### **How does the TIP work?**

1. One year is current (the funded annual element); the remaining four are future.
2. Each year adds a new fifth year and advances a new annual period to current funded status.
3. Identifies funding levels, by source and type, and whether funds are to be used for: road capacity, preservation, bridges, transit capital, safety, non-motorized, right-of-way, study or other.
4. Improvements in the TIP are based on MPO-established priorities from LRTP.
5. TIP is consistent with the adopted 2030 Long Range Transportation Plan.



### **TIP consistency**

The TIP must be consistent with the Long Range Transportation Plan (LRTP).



### **What fiscal years does this TIP include?**

This TIP covers fiscal years 2010 to 2014. Fiscal years spanned are 2010, 2011, 2012, 2013 and 2014. Fiscal years, as opposed to calendar years, begin on July 1<sup>st</sup> and end on June 30<sup>th</sup>.

Fiscal Year 2010 -----	begins July 1, 2009 and ends June 30, 2010
Fiscal Year 2011 -----	begins July 1, 2010 and ends June 30, 2011
Fiscal Year 2012 -----	begins July 1, 2011 and ends June 30, 2012
Fiscal Year 2013 -----	begins July 1, 2012 and ends June 30, 2013
Fiscal Year 2014 -----	begins July 1, 2013 and ends June 30, 2014



### **What does the TIP include?**

The TIP includes a prioritized listing of transportation improvement projects for the Miami-Dade County region for the next five fiscal years.



### **Who participates in putting the TIP together?**

The MPO, with local transportation agencies and other stakeholders as follows (in alphabetical order):

1. Florida Department of Transportation (FDOT) District 6
2. Florida's Turnpike Enterprise
3. Miami-Dade Aviation Department
4. Miami-Dade Department of Environmental Resources Management
5. Miami-Dade Expressway Authority (MDX)
6. Miami-Dade Planning and Zoning Department
7. Miami-Dade Public Works Department
8. Miami-Dade Seaport Department
9. Miami-Dade Transit Agency (MDT)
10. Office of Strategic Business Management (OSMB)
11. South Florida Regional Transportation Authority (SFRTA)



Photo by Miami-Dade County Photographers

## The TIP's Technicalities



### **Who must approve the TIP locally?**

The Metropolitan Planning Organization (MPO) Governing Board must approve the TIP.



### **Who must approve the TIP at the State level?**

The Governor of the State of Florida must approve the TIP before the document becomes part of the State Transportation Improvement Program.



### **Who must approve the TIP at the federal level?**

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) approve the TIP for funding purposes.

Where does the MPO get its authority?



**Federal Law:** From Title 23 U.S. Code -- "To carry out the transportation planning process a metropolitan planning organization shall be designated for each urbanized area with a population of more than 50,000 individuals". In 1973, the Federal Transportation Act mandated that each urbanized area with 50,000 or more in population establish a Metropolitan Planning Organization (MPO). Federal law required that the Governor of the state designate the agency to serve as the MPO.

**State Law:** From 339.175 Florida Statutes: "It is the intent of the Legislature to encourage and promote the safe and efficient management, operation, and development of surface transportation systems" "to accomplish these objectives an MPO shall be designated for each urbanized area". For large urban areas (over 200,000 in population), the Secretary of Transportation certifies these as Transportation Management Areas (TMAs). MPOs that are designated as TMAs have to be certified every three years.

TIP Program Funding



### **Where does Highway Funding come from?**

Gasoline taxes, such as federal gas tax, state motor fuel tax, local option gas tax, voter gas tax, motor vehicle fees and road impact fees and automobile related user fees such as tolls.

### **Where does Transit Funding come from?**

Transit funding comes from a combination of funds from the Federal Transit Administration (FTA), the State of Florida through the Florida Department of Transportation Public Transportation Office, Local Dedicated Source of Funding (half-penny sales tax) and Miami-Dade County's Budget (from local general funds).

**2010-2014 TIP Review by Transportation Agencies**



## FY 2010-2014 TRANSPORTATION IMPROVEMENT PROGRAM



### Primary State Highways and Intermodal Projects

## Florida Department of Transportation District Six

### The Florida Department of Transportation's Five Year Work Program

The Florida Department of Transportation's (FDOT) District Six<sup>1</sup> Work Program is a major component of the Miami-Dade Metropolitan Planning Organization's (MPO) Transportation Improvement Program (TIP). The Work Program, which is updated annually, is a project specific list of transportation activities and improvements that the FDOT is to undertake within a projected five-year period. It is developed by the District in coordination with the Miami-Dade MPO and local governments. In accordance with legislation, the first three years of the Adopted Work Program is intended to represent the state's commitment to undertake transportation projects that local governments may rely on for planning purposes, and for the development of capital improvement elements of the local governments' comprehensive plans. The projects must meet the objectives and priorities of the Florida Transportation Plan (FTP).

### The Work Program Cycle

The Department coordinates with the MPO and local governments to identify and develop projects. Input is also received through public hearings, the legislature and the Governor's office. In the summer of 2008 FDOT began the new cycle to develop the "Tentative" Work Program for FY 2010 through 2014. The final tentative program was sent to the Governor and the State Legislature for review in March of 2009 and it will become effective on July 1, 2009.

### Programs

For budgeting purposes the FDOT's Work Program is comprised of five departmental programs, including:

- Product
- Product Support
- Operation and Maintenance
- Administration
- Other

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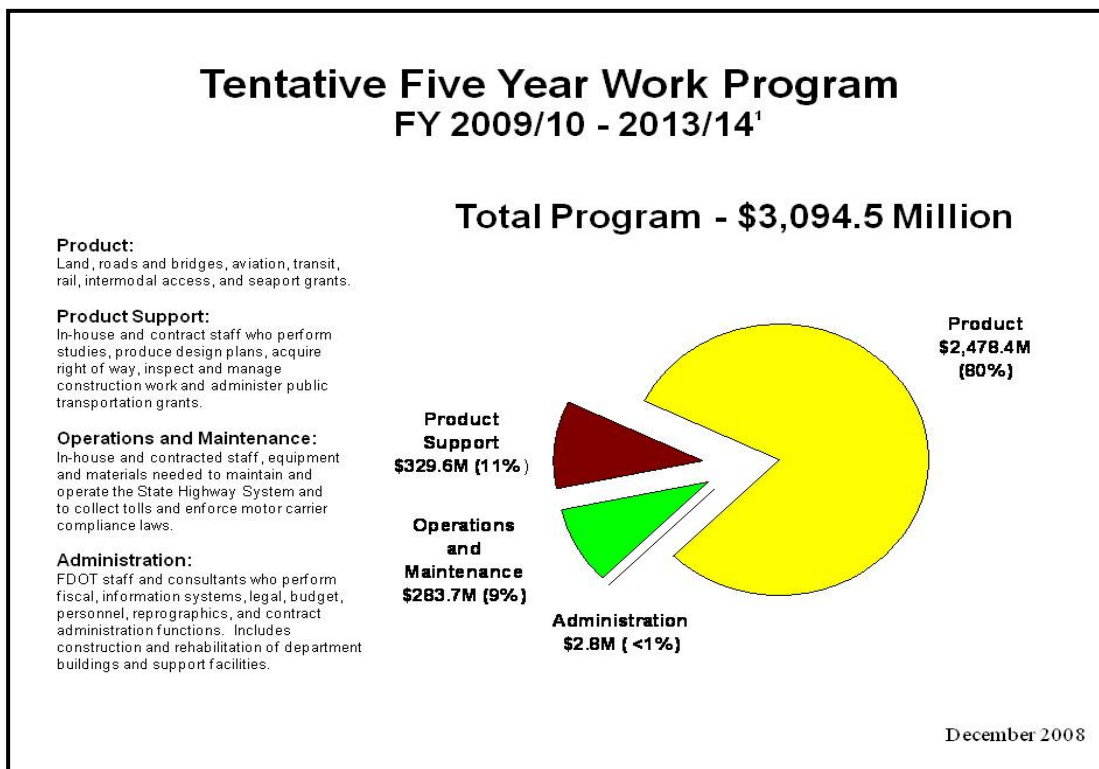
<sup>1</sup> District Six is comprised of Miami-Dade and Monroe Counties

## Primary State Highways and Intermodal Projects (Continued)

Following is a summary of the five departmental programs:

- **Product** - The FDOT's Work Program **Product** is the final result of the Work Program process that appears in the TIP. The Product is comprised of all projects such as Highways and Other Arterials, Right of Way, Aviation, Intermodal Access, Transit, Rail, Seaports, Resurfacing and Bridges.
- **Product Support** - **Product Support** includes both in-house and contract personnel. Product Support performs the studies, produces the design plans, acquires right of way, inspects and manages construction work and administers public transportation grants for the Work Program.
- **Operations and Maintenance** - **Operations and Maintenance** includes in-house and contract staff, and the equipment and materials needed to maintain and operate the State Highway System, collect tolls and enforce motor carrier compliance laws.
- **Administration** - **Administration** is comprised of FDOT staff and contract staff that perform Work Program development, including fiscal, information systems, legal, budget, personnel, and contract administration functions. It also includes construction and rehabilitation of department buildings and support facilities.
- **Other** - **Other** encompasses funds to reimburse local governments for projects previously advanced in the Adopted Work Program, staff equipment, consultants and materials required to support data processing needs, maintenance of the FDOT's mobile equipment, and the operation and maintenance of the FDOT's warehouse and supply system.

The chart below provides a summary of the FY 2009/2010 to 2013/2014 Tentative Five Year Work Program budgeted costs.



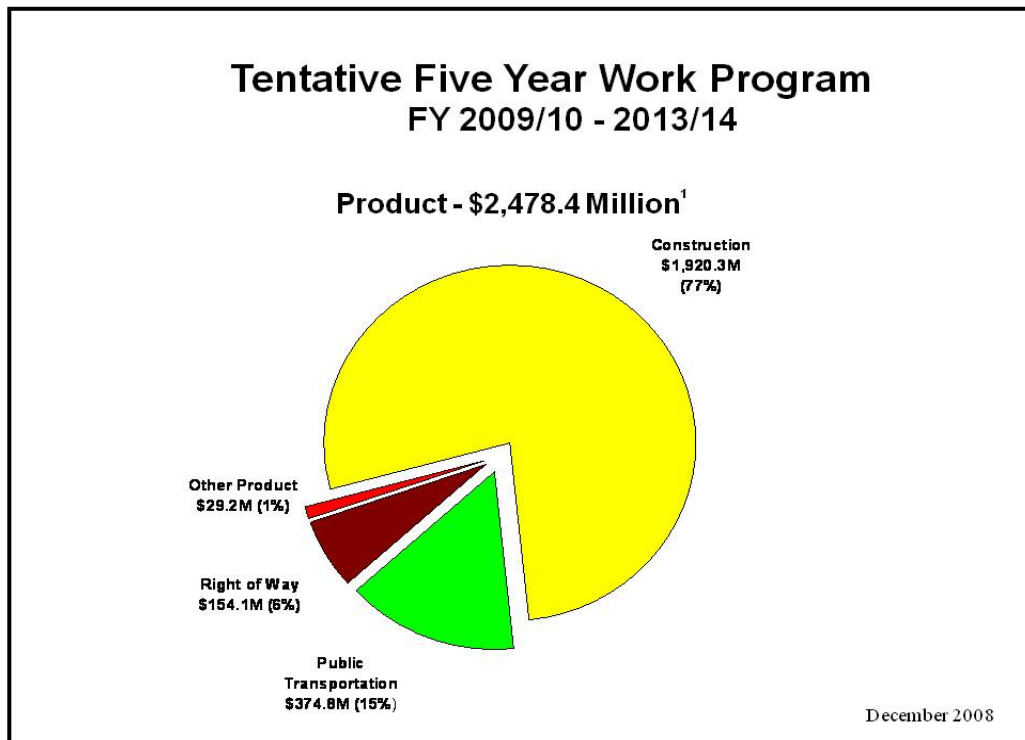
<sup>1</sup>Does not include \$134M for Miami-Dade Transit's North Corridor Project.

## Primary State Highways and Intermodal Projects (Continued)

### Funding

The Department's funds are allocated among seven districts statewide. In the Miami-Dade urbanized area, District Six and the MPO determine the best use of Miami-Dade's share. The Department's resources are primarily from federal and state dedicated sources. The State Transportation Trust Fund and the Federal Highway Trust Fund receive revenue from specific tax sources earmarked solely for transportation purposes. By statute, the Department must develop a program that is balanced to cash and revenue forecasts. Additional funding for Work Program projects comes from local and discretionary sources.

The Department of Transportation is responsible for the State Highway System and funds several intermodal programs. The Department will spend approximately \$3.1 billion on transportation in District Six over the next five years. The Department's total product budget is \$2.5 billion. A total of \$1.9 billion or 77% of that budget will go toward funding construction projects in District Six. These projects fall under four major construction categories: Capacity Improvement, Safety, Bridge, and Resurfacing. No less than 15% or \$374.8 million of the product budget is dedicated to Public Transportation programs and services. A sampling from the Work Program is highlighted below. They include intermodal, the Strategic Intermodal System, intelligent transportation, other major corridor and public transportation improvements.



<sup>1</sup>Does not include \$134M for Miami-Dade Transit's North Corridor Project.



## Primary State Highways and Intermodal Projects (Continued)

### Major Intermodal Projects

- **Miami Intermodal Center (MIC)**

The MIC Program includes the Rental Car Center, Miami Central Station, Miami International Airport (MIA) People Mover, access roads and major highway improvements, all to be completed by mid-2011. The Department also will be pursuing a private and/or public sector joint development project to enhance the MIC's viability.



Miami Intermodal Center/Rental Car Facility Presently Under Construction

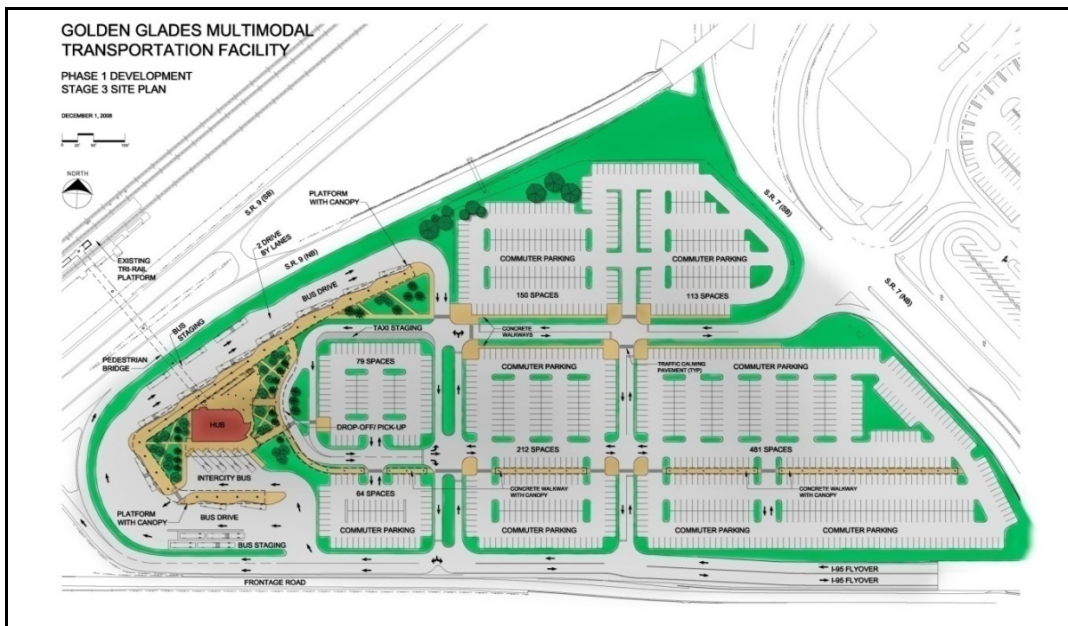
- **Golden Glades Intermodal Center**

The Department has programmed \$16.2 million in FY 2013-2014 for construction of a transit hub building and additional bus bays close to the Tri-Rail walkway. The project includes reconfiguring the existing parking lot on the west side of S.R. 7 into a more efficient pattern, the addition of approximately 500 new parking spaces east of SR 7 and an improved pedestrian connection to Tri-Rail. The Center provides a regional link connecting Tri-Rail, Miami-Dade Transit and Broward County Transit.

## Primary State Highways and Intermodal Projects (Continued)



Golden Glades Terminal Today



Site plan of proposed Golden Glades Interchange Multimodal Terminal Improvements, Phase I

### Strategic Intermodal System (SIS) Projects

The SIS includes all Florida Intrastate Highway System (FIHS) roadways (expressways, other major arterials, such as Krome Avenue and a portion of Okeechobee Road), seaports and airports and their connections to the rail network and the FIHS. Examples of SIS projects are as follows.

## Primary State Highways and Intermodal Projects (Continued)

- **SR 997/Krome Avenue Corridor**

The Environmental process has been completed and Federal Location Design Acceptance has been issued for the segment from SW 136<sup>th</sup> Street to US 27. Construction of the 4-lane typical section will begin in fiscal year 2013-2014 on the first section, 2.4 miles in the vicinity of SR 90/SW 8<sup>th</sup> Street. Additional construction funds are programmed for FY 2014-2015 for the section from SR 94/Kendall Drive to SW 8<sup>th</sup> Street.

- **SR 826/Palmetto Expressway**

Funding to continue work on widening the Palmetto Expressway is included in the Work Program. The two remaining large projects on the north-south portion of the expressway are the reconstruction of the Bird Road and SR 836 interchanges. Both of these major projects are being done in partnership with the Miami-Dade Expressway Authority. In addition, the Work Program includes a project development and environmental phase for the east-west portion of the Palmetto Expressway between I-75 and the Golden Glades Interchange in FY 2010-2011.

The SR 826 interchange project at Bird Road/SR 874/Miller Drive has been let and construction began in November 2008. Additional funding is in the work program through fiscal year 2010-2011. The SR 826/SR 836 interchange project will be let in FY 2009. Funding for this project also is on-going and included in this year's work program. Both projects are being built in partnership with the Miami-Dade Expressway Authority. The SR 826/836 Interchange is expected to be let in calendar year 2009 as design/build/finance and is being funded in the Work Program throughout the FY 2010-14.



Rendering of Proposed SRs 826/836 Interchange

## Primary State Highways and Intermodal Projects (Continued)

- **Port of Miami**

The Port of Miami Tunnel, which will link the port directly to I-395/SR 836 via MacArthur Causeway, is being procured as a Public Private Partnership. The environmental process is complete and the general project location and alignment has been identified. Three teams were shortlisted in March 2007, and the team with the “Best Value Proposal” was named in May 2007. The selected team would be required to perform all aspects of the project including design, build, finance, operate, maintenance and concessionaire functions.



View of the Port of Miami

- **SR 9A/I-95 Corridor**

The first phase of the joint Miami-Dade/Broward County 21-mile pilot project, branded, “95 Express” was funded by a \$62.9 million federal grant received by the Department. This grant was combined with State monies and is being administered as an “Urban Partnership Agreement” by Districts Four and Six. Through relatively minor construction and re-striping, the project converts the single HOV lane in each direction, between SR 112/I-195 and I-595, into two High Occupancy Toll (HOT) lanes, or “Express Lanes,” in each direction.



View of the I-95 Express Lanes  
in the Northbound Direction

## Primary State Highways and Intermodal Projects (Continued)

The Express Lane concept, allows emergency vehicles, registered vanpools, registered carpools of three or more persons, registered hybrid vehicles, motorcycles, public buses, and school buses free access to these lanes. Single-occupant and other non-registered vehicles may opt to use the lanes by paying a toll which will vary according to level of congestion. The project's benefits are: an increase in overall corridor capacity, an increase in average speed in the Express Lanes, implementation of Bus Rapid Transit in the corridor, and use of tolls to partially finance the project and increase bus service. The first phase became operational last December in the northbound lanes, between SR 112/I-95 and Golden Glades interchange. The second phase, will convert the corresponding southbound lane to two HOT lanes in FY 2009-2010.

- **I-95/Ives Dairy Road Interchange**

This project will help alleviate congestion at the Ives Dairy Road Interchange. An additional southbound exit lane and third left-turn lane at Ives Dairy Road will address the problem of vehicles backing up and interfering with I-95 through traffic. Other improvements primarily include: widening the northbound entrance ramp from westbound Ives Dairy Road, widening the northbound exit ramp, constructing additional left turn lanes for Ives Dairy Road at the northbound and southbound ramp entrances, and adding a third left-turn lane for northbound Highland Lakes drive traffic turning westbound onto Ives Dairy Road. Construction dollars are shown in FY 2010-2011.



Rendering of Eastbound Ives Dairy Road at I-95

- **SR 836/I-95 Interchange**

This includes two projects in the Work Program: a design phase in FY 2010-2011 for new SR 836/I-95 Interchange Ramps from NW 12<sup>th</sup> Avenue to I-95 and a right-of-way phase in FY 2010-2011 for reconstruction of SR 836/I-395 from I-95 to Mc Arthur Causeway.

- **Miami International Airport Central Boulevard**

A total of \$48.5 million in state matching funds has been allocated for improvements to the primary entrance road to the airport in FY 2009-2010 thru 2012-2013. The Miami-Dade Aviation Department is pursuing a partnership with the Miami-Dade Expressway Authority to assist with the required local matching funds.

## Primary State Highways and Intermodal Projects (Continued)

### Intelligent Transportation System (ITS) Program

Deployment of ITS techniques enables traffic to operate at an improved quality of service with virtually no disruption to adjacent property owners and at a fraction of the cost that it would take to physically widen the roadway. These projects include closed circuit TV, vehicle sensors and



View of a Service Patrol "Road Ranger"

dynamic message signs describing real time roadway conditions. The 511 SunGuide Program, providing travel information around the clock, for each ITS roadway, is available by dialing 511. Examples of projects are Express Lanes, I-95 ramp metering, service patrols, ITS Dynamic Message Signs, roadway surveillance cameras, communication infrastructure expansion of ITS and continued expansion to additional roadways.

### Bicycle/Pedestrian Corridor Improvements

- North Beach Recreational Corridor
- South Dade Greenways
- Snake Creek Canal
- Miami River Greenway

### Other Major Corridor Improvements

- SR 5/Biscayne Boulevard
- SR 5/South Dixie Highway
- N.W. 87<sup>th</sup> Avenue
- SR 823/N.W. 57<sup>th</sup> Avenue
- SR 959/S.W. 57<sup>th</sup> Avenue
- SR 7/N.W. 7<sup>th</sup> Avenue
- SR 916/N.W. 135<sup>th</sup>/138<sup>th</sup> Street
- SR 985/N.W. 107<sup>th</sup> Avenue
- N.W. 74<sup>th</sup> Street.



View of Biscayne Trail



View of Miami-Dade Transit's Metromover System

### Public Transportation Projects

#### Transit

- State Transit Block Grant
- MIC-Earlington Heights Metrorail Connector
- North Corridor Metrorail Extension
- Metrorail Pedestrian Overpasses over SR 5/South Dixie Highway
- Kendall Drive Bus Rapid Transit

## Primary State Highways and Intermodal Projects (Continued)

### Aviation



View of Taxiway at Miami International Airport

- Miami International Airport (MIA) Central Boulevard Improvement (see Strategic Intermodal System, above)
- MIA - Park Six Garage
- MIA – Runway 8R/26L Resurfacing
- Tamiami Airport Runway Extension
- Opa-locka Airport Air Traffic Control Tower Replacement
- Perimeter Road Improvements
- MIA People Mover Transit Connector to the MIC (See Miami Intermodal Center, above)
- Intersection Improvements at NW 67th Avenue and SR 948/NW 36th Street
- Opa-Locka Runway 9L-27R Resurfacing

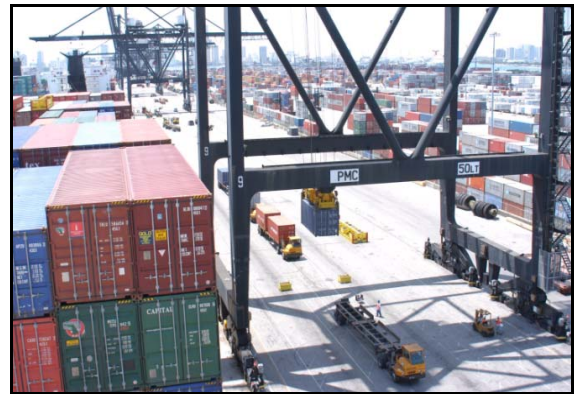
### Rail



View of Rail Crossing on the South Florida Rail Corridor

- Passenger and Freight Rail Safety Projects
- FEC Double-Track Medley Lead Track

### Seaport



Gantry Cranes and Containers at the Port of Miami

- Cargo Container Yard Improvements
- Dredging South Fisherman's Channel

# Miami-Dade Expressway Authority (MDX) Improvements

## INTRODUCTION

The Miami-Dade Expressway Authority (MDX) is an agency of the State created in 1994 by the Florida Legislature and the Miami-Dade County Commission to build, expand, maintain and operate five urban expressways within Miami-Dade County. The MDX system is comprised of the SR 112 Airport Expressway, the SR 836 Dolphin Expressway, the SR 874 Don Shula Expressway, the SR 878 Snapper Creek, and the SR 924 Gratigny Parkway and serves as major east-west arteries to more than one million commuters a day.

All MDX projects are implemented through an active public involvement program to ensure that the community impacted is involved and informed. Improvements are exclusively funded through the use of toll revenue and bonds. MDX ensures that toll revenues collected in Miami-Dade County are re-invested into the County's transportation network to improve mobility, enhance the community's quality of life and promote economic development in Miami-Dade County.

## FY 2009 Accomplishments

In November 2008, MDX inaugurated its new SR 874 Northbound on-ramp from Kendall Drive. Besides the new connection from Kendall Drive to the SR 874 corridor, this project also provided noise walls to minimize disruptions to adjacent neighborhoods and installed landscaping to mitigate the visibility of the noise walls and bridge. These improvements are a testament to MDX's commitment to work with the affected community to implement solutions that improve mobility while addressing the public's concerns.

MDX made great strides in the construction of its Intelligent Transportation System (ITS) Design-Build projects for the SR 112, SR 924, SR 874 and SR 878 corridors (projects 10007, 10009 and 10010, respectively). Construction is over 50% complete with a system scheduled to be operational in FY 2010. Promoting the use of state-of-the-art technology has been a key element of the MDX strategy to optimize operational efficiency along its five system roadways. These projects provide for cameras and loop detectors linked to the SunGuide Transportation Management Center to improve communications all of which results in improved customer service.

During FY 2009, MDX awarded the construction of SR 874 / Killian Drive Interchange (87404) as well as the final design contract for the SR 874 Mainline Reconstruction between Kendall Drive and SR 826 / Palmetto Expressway (87409). It also received proposals for the In-lane & Host System and Account Management Traffic Enforcement System (AMTES) portions of the MDX full system conversion to Open Road Tolling (ORT) (10012).

*NB ramp from Kendall Dr. to SR 874*



*ITS Surveillance equipment*





## MDX Improvements (Continued)

### FY 2010-2014 Work Program Overview

The MDX Five-Year Transportation Improvement Program (TIP) consists of **thirty-four (34) projects** totaling an estimated investment of approximately **\$578 million** and it provides for the advancement of long-range planning projects included in its Master Plan, the systemwide conversion to Open Road Tolling to provide for safer, faster and more equitably tolled trips, and the completion of significant capacity enhancement projects, some in partnership with other agencies to bring congestion relief to Miami-Dade County.

### Advancement of Long-Range Planning Projects:

Included in this work program are Project Development & Environmental (PD&E) Studies for evaluating the feasibility of a ramp connection from SR 874 to SW 136<sup>th</sup> Street (project 87410), the extension of SR 924 west to the Homestead Extension of the Florida's Turnpike (HEFT) (project 92404), the extension of SR 924 east to I-95 (project 92407) as part of the MDX Master Plan and the Miami-Dade Metropolitan Planning Organization (MPO) Long-Range Transportation Plan as well as the southwest extension of SR 836 from NW 137<sup>th</sup> Avenue to SW 136<sup>th</sup> Street (project 83618), and the potential conversion of the existing busway at U.S. 1 into a Managed Lanes facility (project 20003). The last two projects are part of the MDX Master Plan, but are pending inclusion into the MPO Long-Range Transportation Plan.

MDX is focusing on the evaluation and assessment of various projects outside of the existing MDX system for potential inclusion into the MDX Master Transportation Plan (project 20002). Some of the concepts being studied include the North/South Connector, U.S. 27 Okeechobee Road, truckway / mixed-used managed lanes, and the U.S. 1 reversible lanes among others. MDX is also conducting an assessment of current conditions and needed improvements for potential development of Express Bus Service along the SR 836 outside shoulders in the eastbound and westbound directions (project 83627), with potential park and ride lots at selected locations in coordination with Miami-Dade Transit (MDT).

### Systemwide Open Road Tolling (ORT):

The conversion of all MDX System to an all-electronic toll collection system includes the removal of existing toll plazas, final design and construction of roadway modifications to accommodate new traffic flow pattern, installation of electronic tolling equipment and shelters, corresponding system signage and gantries at various locations. It also includes the development of the software and hardware for the toll system as well as the enforcement system, (project 10018). The elimination stop-and-go traffic at the toll plazas will improve safety, enhance operations and air quality, increase throughput and provide congestion relief. The first corridor to be converted will be the SR 924 corridor (projects 92405 and 10013) scheduled for opening in FY 2010 followed by the SR 878 and the SR 874 corridors (projects 87801, 10014, 87412 and 10015) scheduled for opening in FY 2011, and finally the SR 112 and the SR 836 corridors (projects 11209, 10016, 83624 and 10017) scheduled for opening in FY 2012 and in FY 2015 respectively.

*View of typical ORT gantry*



## **MDX Improvements (Continued)**

### **Completion of capacity improvement projects:**

The significant capacity projects included in this work program are the construction of the SR 874 / Killian Parkway Interchange (project 87404) scheduled to be completed in FY 2012, the construction of an eastbound auxiliary lane on SR 836 to match FDOT's SR 826 / SR 836 project on the west and NW 42<sup>nd</sup> Avenue on the east (project 83622) scheduled for completion in FY 2011, the reconstruction of the SR 874 Mainline from Kendall Drive to SR 826 including the SR 874 / SR 878 Interchange (project 87409) currently under design with anticipated construction completion in FY 2012. Project 87409 is the last segment of the full reconstruction of the SR 874 corridor. A project to evaluate the concept of continuing the eastbound auxiliary lane on SR 836 from 72<sup>nd</sup> to 42<sup>nd</sup> Avenues, the westbound lanes from 27<sup>th</sup> to 57<sup>th</sup> Avenues and improvements to the interchanges at SR 836/LeJeune Road and SR 836/27<sup>th</sup> Avenue (project 83628) has been programmed for FY 2010. Also programmed for concept report and final design are the modifications of the SR 836 interchange at 87<sup>th</sup> Avenue (project 83629), which would complement the planned SR 826/SR 836 interchange improvements being funded jointly with FDOT and scheduled to be let for construction in FY 2010. Other improvements include the construction of an access ramp from 107<sup>th</sup> Avenue to the MDX SR 836 Extension for the exclusive use of emergency vehicles (project 83625) in response to a request from the Miami-Dade Fire Rescue.

### **Combining Resources / Partnering:**

MDX is combining resources with its partners for the reconstruction of the Central Boulevard, the primary vehicular access roadway connecting the Miami International Airport to SR 836 and SR 112 (project 11211) where MDX will act as a local funding partner and grant recipient from FDOT to administer the project on behalf of the Miami-Dade Aviation Department pending execution of interlocal agreement. MDX currently has joint participation agreements with FDOT for the construction of the SR 826 / SR 836 Interchange Improvements as well as the right-of-way acquisition and surface road construction for the Miami Intermodal Center, for the preparation of an Environmental Assessment for the SR 836 / I-95 Interchange and for the construction of SR 874 / SR 826 Interchange Improvements.



## Florida's Turnpike Enterprise Improvements



The Turnpike Enterprise is an agency of the Florida Department of Transportation, overseeing a 460 mile system of limited – access toll highways. The Turnpike Mainline extends from North Miami to a junction with Interstate 75 in north central Florida. It passes through the counties of Dade, Broward, Palm Beach, Martin, St. Lucie, Indian River, Okeechobee, Osceola, Orange, Lake and Sumter. The Turnpike System includes the 47 mile Homestead Extension (HEFT) and the 23 mile Sawgrass Expressway/Toll 869 in Broward County; among other facilities statewide.

Florida's Turnpike is a user-financed facility that uses toll revenues, sale of services (Service Plazas), and bonds to pay for new construction and maintenance of the entire system. The Turnpike does not receive gas taxes.

### Miami-Dade County Turnpike Planned Projects

- Widen from 6 lanes to 10 lanes the Homestead Extension of the Florida's Turnpike (HEFT) from Eureka Drive to south of Kendall Drive and improvements to adjacent street network.
- Widen from 4 lanes to 8 lanes the Homestead Extension of the Florida's Turnpike (HEFT) from SW 216th to north of Eureka Drive.
- Resurface mainline spur from Milepost Ox - 3.3.x
- Resurface the pavement of the Homestead Extension from Milepost 0 to Milepost 9.2 and construct guardrail Milepost 0 to Milepost 12 in both northbound and southbound directions.
- Resurface the pavement of the Homestead Extension from Milepost 11.8 to Milepost 16.4 and from Milepost 20.0 to Milepost 22.
- Implement All-Electronic Tolling on HEFT from US-1 to SW 120<sup>th</sup> Street (Phase I).
- Implement All-Electronic Tolling on HEFT from Kendall Drive to SR 836 (Phase II).



Split Gantries No Cash

# Secondary Roads Improvements by Public Works Department

The Secondary Road Program is divided into two distinct categories. The first section includes all new road construction or rehabilitation projects and the second section deals with the continuing projects that have fund allocations yearly.

## MAJOR ROADS CONSTRUCTION PROJECTS

NW 62 Street from NW 47 Avenue to NW 37 Avenue

NW 72 Avenue from NW 74 Street to Okeechobee Road

NW 138 Street from NW 107 Avenue to I-75



## CONTINUING PROGRAM PROJECTS

Bridge Repair and Painting

Guardrail Safety Improvement

Railroad Improvements

Safety Lighting

Special Taxing District

Traffic Control Devices (Equipment/Materials)

Capitalization of Traffic Signals and Signs Crew

Road and Bridge Emergency Repairs/Improvement/Painting

Beautification Improvements

Pavement Markings Contracts

Maintenance of Roads and Bridges

Pavement and Marking Crew

Local Grant Match for MPO

Traffic Signal Loop Repairs

Illuminated Street Signs



Photo by Miami-Dade County Photographers



Photo by Miami-Dade County Photographers

## Road Impact Fee Improvements by Public Works



NE 15<sup>th</sup> Avenue from 163 to 170 Street

On December 6, 1988, the Board of County Commissioners adopted Dade County Road Impact Fee Ordinance No. 88-112, which provides for the fair share assessment of road impact fees on all new building construction in Dade County, including all municipalities.

The County has been divided into nine road impact fee benefit districts. Fees collected within each district will be expended for roadway capacity improvements within each district.

Each district program includes four distinct improvement categories, i.e., Road and Bridge Projects, Resurfacing, Traffic Operations Projects to Increase Capacity and Safety (TOPICS), and Traffic Control Devices.



NW 32 Avenue Resurfacing Improvements

### ROAD AND BRIDGE CONSTRUCTION PROJECTS

Road and bridge projects include, but are not limited to:

NE 2 Avenue -- NE 91 Street to NE 105 Street

NW 7 Avenue -- NW 183 Street to NW 199 Street

NE 15 Avenue -- NE 159 Street to Miami Gardens Drive

NW 97 Avenue -- NW 138 Street to NW 154 Street

SW 184 Street -- SW 137 Avenue to SW 127 Avenue

SW 184 Street -- SW 147 Avenue to SW 137 Avenue

SW 328 Street -- US-1 to SW 162 Avenue

SW 328 Street -- SW 152 Avenue to SW 137 Avenue



NW 97 Avenue Resurfacing Work

## Road Impact Fee Improvements (Continued)

### CONTINUING PROGRAM PROJECTS

The Road Impact Fee Program contains three project categories which are supportive of the transportation system management effort to improve traffic flow countywide. The continuing projects for FY 2010 include:

TOPICS (Traffic Operations To Increase Capacity and Safety) :



Intersection Improvements

### RESURFACING:



Paving, widening, drainage, striping

### TRAFFIC CONTROL DEVICES



Signalization

## Capital Improvement Local Option Gas Tax by Public Works

The Capital Improvement Local Option Gas Tax, authorized by Section 336.025, Florida Statute became effective on January 1, 1994. It was reduced from five cents to three cents on September 1, 1996. In accordance with state statute, proceeds of this tax have been programmed for transportation expenses associated with the requirements of the capital improvement element of the adopted comprehensive plan.

### County Local Option Gas Tax Transportation Projects:

The County reviews the Capital Improvement Local Option Gas Tax distribution between the Miami-Dade Public Works Department and the Miami-Dade Transit Agency on an annual basis for the most effective use of this limited funding subject to legislative actions taken by the Board of County Commissioners and state statute.

The estimated Fiscal Year 2009-2010 Capital Improvement Local Option Gas Tax (\$19.048 million) is divided into three categories. The first category includes Public Works projects which address roadway improvement needs (\$986,000). The second category deals with transit improvements for Miami-Dade County's urban public transportation system (\$17.2 million). The third category includes debt service for Public Improvement Bonds funding local road resurfacing and related transportation improvements including sidewalks and drainage on local roads (\$858,000).



Roadway Improvement



Transit Improvement

## People's Transportation Plan Improvements by Public Works

On the November 5, 2002 ballot, voters approved the People's Transportation Plan (PTP), which provides for a half percent sales surtax to fund major transportation improvements.

The Citizens' Independent Transportation Trust (CITT), a group of citizens who function as an independent decision-making body, was created to oversee the construction and management of the PTP's 25-year, \$17 billion transportation plan. The Public Works Department (PWD) has worked closely with the CITT to provide a wide range of roadway and neighborhood improvements.

The PWD Plan Work Program for FY 2010 totals over \$117 Million. The plan includes the two categories from the PTP Ordinance that relate to the Public Works Department: major highway road improvements and neighborhood improvement projects.

### MAJOR HIGHWAY ROAD IMPROVEMENT PROJECTS

NW 37 Avenue from North River Drive to NW 79 Street  
NE 2 Avenue from NE 43 Street to NE 62 Street  
NE 2 Avenue from West Little River to NW 79 Street  
SW/NW 62 Avenue from SW 24 Street to NW 7 Street  
SW 27 Avenue from US 1 to Bayshore Drive  
SW 137 Avenue from HEFT to US 1  
SW 137 Avenue from US 1 to SW 184 Street  
Old Cutler Road from SW 97 Avenue to SW 87 Avenue  
NW 87 Avenue from NW 154 Street to NW 186 Street  
NW 138 Street Bridge over Miami River Canal  
SW 136 Street from SW 152 Avenue to SW 139 Court  
SW 160 Street from SW 147 Avenue to SW 137 Avenue  
SW 127 Avenue from SW 120 Street to SW 88 Street  
SW 97 Avenue from SW 56 Street to SW 40 Street  
SW 157 Avenue from SW 112 Street to SW 136 Street  
NW 74 Street from HEFT to SR-826



Road reconstruction



Road reconstruction



## People's Transportation Plan Improvements (Continued)

### MAJOR COUNTYWIDE HIGHWAY ROAD IMPROVEMENT PROJECTS

ATMS - Advanced Traffic Management System

### NEIGHBORHOOD IMPROVEMENT PROJECTS

The PWD, as part of the PTP, has been tasked with coordinating and constructing various categories of Neighborhood Improvement Projects.

To address the various non-site specific categories discussed in the PTP Ordinance the Department created "The Neighborhood Improvement Projects Formula" to allocate funds. The formula takes into account population in the Unincorporated Municipal Service Area for each commission district, the needs as reported to the Department, the percentage of maintained arterial and collector lane miles, and a portion is evenly distributed to each district. PTP Neighborhood Improvements include modifications of intersections; resurfacing of local and arterial roads; installation/repairs of guardrails; installation of school flashing signals, enhancement of greenways and bikeways, A.D.A. curb cuts/repairs, pavement markings, roadway lighting, traffic calming, traffic signals, and traffic sign replacement/repair. Such improvements also include replacement/repair of sidewalks, repair/installation of drainage and landscape beautification (including community image enhancements) related to the development, construction, operation or maintenance of roads and bridges in the County or to the expansion, operation or maintenance of bus and fixed guideway system.

The Neighborhood Improvement Projects include:

- Site Specific Neighborhood Improvement Sites
- Non-Site Specific Neighborhood Improvement Sites
- Countywide Neighborhood Improvements



Road reconstruction work



Road reconstruction work

## PRIVATE SECTOR IMPROVEMENTS

### FINANCED BY CONTRIBUTIONS IN LIEU OF PAYMENTS OF ROAD IMPACT FEES

**Miami-Dade Public Works Department** in charge of the Private Sector Improvements Program which addresses road improvement commitments to be made by private developers during the regional and local development approval process.

The improvements listed are necessary to help mitigate traffic impacts of specific large development projects such as Developments of Regional Impact (DRI) and approved by the Community Zoning Appeals Board (CZAB) or the Board of County Commissioners (BCC). These road improvement commitments are contained in County Commission zoning resolutions and/or documents proffered by development interests to the Commission. In some cases, especially DRI development orders, sketch drawings of the improvements are attached to these legal documents. The last column of the table in this section contains either the Commission Resolution Number or the official record book/page number associated with each improvement, which is necessary to obtain copies of the associated legal document from official County records or the Miami-Dade county Department of Planning and Zoning.

Unlike other parts of the TIP, the construction of improvements in this section are normally not linked to specific dates, but instead, are usually dependent upon the construction schedule of a specific development project, which can vary considerably according to the market and other conditions.



Private Sector Road improvements



Private Sector Road improvements

NW 127 Ave. from NW 12 Street to SW 8 Street.

NW 17 Street from NW 127 Avenue to NW 137 Avenue

Kendall Drive from SW 162 Avenue to SW 150 Avenue

SW 137 Ave. from Sunset Drive to Kendall Drive

SW 162 Avenue from Kendall Drive to SW 96 Street

SW 157 Avenue from SW 94 Street to SW 96 Street

# AIRPORT DEVELOPMENT IMPROVEMENTS

**Miami-Dade County Aviation Department** operates a system of Airports through the Miami-Dade Aviation Department (MDAD) which consist of Miami International Airport (MIA), three General Aviation Airports; Opa-locka Executive Airport (OPF), Kendall Tamiami Executive Airport (TMB), Homestead General Aviation Airport (X-51), and one training airport, the Dade-Collier Training and Transition Airport (TNT). The funding for this program is primarily from revenue generated by the Aviation Department and Federal and State grants.



Rendering of Widening of Central Blvd



Plane Taxiing

Major projects at Miami-Dade County’s airports includes phases of the following projects:



**Dollars in Millions**  
**(Funded)**

MIA – Front Terminal “D”-“H” Sprinklers & Alarm Upgrades	\$ 15.2
MIA – New Northside Runway	\$ 18.7
MIA – Central Boulevard	\$ 97.0
MIA – Rehabilitation Runway 12/30	\$ 14.7
MIA – Runway 8R/26L Runway Rehabilitation	\$ 36.7
MIA – Upper Drive Widening	\$ 14.1
MIA – Way Finding Signage Program	\$ 13.0
MIA – 67 <sup>th</sup> Avenue ROW and Improvement	\$ 10.0
MIA – Concourse J/E Airbus A380 Gate Modifications	\$ 10.0
MIA – Concourse H A380 Gate Modifications	\$ 1.5
MIA – Runway 27 Threshold Relocation	\$ 0.9
MIA - Strategic Planning Study	\$ 4.0
MIA – Gates J17, H1, E6-8 A380 Modifications	\$ 8.8
MIA - Park Six Garage	\$ 9.8
MIA - Automatic Foreign Object Debris Detection System	\$ 4.6
MIA - A-360 Airfield and Gate Modifications	\$ 73.1
MIA - Terminal Building Reroofing – Phase 1	\$ 19.7
GAA - Rehabilitation of Rigid Apron Pavement (OPF)	\$ 2.2
GAA - Rehabilitate Runway 9L/27R	\$ 1.3
GAA - Runway 9R/27L Extension (TDM)	\$ 22.3
GAA - Relocate Airfield Rotating Beacon	\$ 0.3
GAA - Replacement of RWY 9 ILS w/MALSR (TNT)	\$ 0.4
<b><u>TOTAL:</u></b>	<b><u>\$ 305.2</u></b>

# MULTIMODAL SEAPORT DEVELOPMENT

## THE DANTE B. FASCELL PORT OF MIAMI-DADE (“Port of Miami”)

### TRANSPORTATION IMPROVEMENT PROGRAM STRATEGY

The Transportation Improvement Program (TIP) for the Port of Miami, the cruise capital of the world and the Cargo Gateway of the Americas, totals \$342 million over the next five years. The Seaport Department’s TIP for Fiscal Years 2010-2014 reflects the Port’s in-progress strategy of optimizing land use and enhancing throughput capability to meet the demands of the cargo and cruise industries.



Port of Miami Cruise Terminal Facility

As part of the Capital Development Program, the Port of Miami is dedicated to continue to meet the industry demands by supporting the following Capital Improvement Projects:

- Dredging Program
- Tunnel
- Cargo Container Yards
- Cruise Terminals and Parking Garage
- Cranes
- Security

The Port’s continuous to aggressively seek grant funding from local, state and federal sources. This year’s TIP reflects over \$11.4 million Florida Department of Transportation (FDOT) grant funds (exclusive of U.S. Army Corps of Engineers dredging grant funds) awarded to the Port, over the next five year program. Federal competitive and Port Security Programs continue to be part of the Port’s established goals to support the program.

### **SPECIFIC ASPECTS OF THE PROGRAM**

#### **Harbor Deepening/ Port Tunnel**

In order to be competitive, the Port of Miami must have sufficient harbor depth to berth the mega cargo ships being built today. This year the Port of Miami obtained Congressional Authorization through the Water Resources Development Act of 2007 for Phase III of the Miami Harbor Dredging project. At 50 feet, the port will be able to double its cargo capacity and accommodate the super-post Panamax ships being built. Total cost for this project over the next several years is expected to nearly \$200 million.

#### **Port Tunnel**

The tunnel will directly connect POM to 395 – which will alleviate congestion on Downtown Miami by shifting a significant portion of truck traffic and other vehicular traffic from the six-lane port bridge that is currently the only link between the seaport and the mainland. This is a project led by the FDOT and supported by City of Miami and the Port.

## MULTIMODAL SEAPORT DEVELOPMENT (Continued)

### Cargo Container Yards

As part of our on-going negotiations with our cargo terminal operators the Port is committing to improve drainage, pavement, and access improvements to container yards with total anticipated project costs to be more than \$50 million over several years. Further, the Port is planning to add 2 new post-panamax cranes and strengthen gantry berths. These improvements are critical to maintaining the throughput capacity of the Port and its operational efficiency.

### Cruise Terminal Enhancements

Cruise terminal improvements include upgrading existing terminals B and C, and D and E to meet the ever larger cruise ships calling at the Port and the construction of Parking Garage D and Surface lot adding a total of 873 spaces of parking to facilitate parking needs for new cruise terminal. This project is on time and on schedule and it is anticipated to be completed by September of this year. Thanks to the support of the FDOT these projects are being completed.

### Cranes

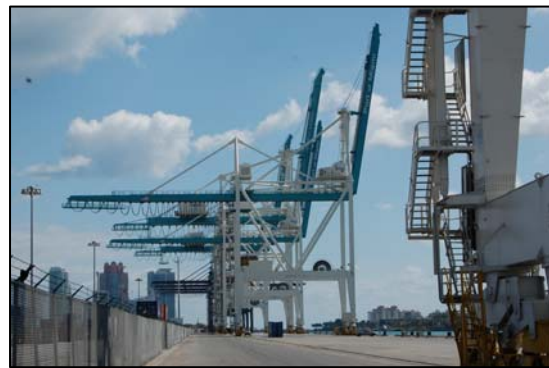
The Port currently has nine (9) rail mounted gantry cranes that handle containers operating on over 5,000 feet of wharf. The Port intends to increase the number of these operational cranes to sixteen (16) in addition to constructing 2,000 feet of wharf for a total of over 7,000 feet of gantry crane wharf. This project will design and constructs a power system that will supply electricity provided by the utility company to the four existing cranes that are not electric power. This new electric power system will convert these cranes to be non-dependent of the diesel-powered generator motors currently in use. The new system will also provide an emission free operation reducing the maintenance cost as well as eliminating the use of diesel fuels used to run the generator motors and a cleaner, healthier environment for the work force.

### Seaport Security

Seaport security continues to be an item of national significance. Port security enhancement projects completed or nearing completion include CCTV, access controls, waterside surveillance cameras, a cruise provisioning inspection facility (CPIF) and a new centralized command and control center. The Security program in the new TIP exceeds \$11.4 million for FY09/10 through FY 13/14. Improvements include construction of a new command control center which is a centralized facility to house MDPD, Port Security and the Emergency Operations Center (EOC), and other technological security advances necessary to assist in meeting the new security mandates.



Government Cut Channel to Port of Miami



Port of Miami Container Terminal

# PUBLIC TRANSPORTATION IMPROVEMENTS

## SPECIFIC ASPECTS OF THE PROGRAM

The FY 2010 Transportation Improvement Program includes funding over the next five years for the following projects:

**Urban Corridor Development:** State Transit Corridor Program funds will be used for the continuation of several successful Flagler Max route, Busway Max, and I-95 Manage lanes.



East/West Rendering at the end line station

## ROUTINE REPLACEMENT AND ENHANCEMENT

**Metrorail Rehabilitation/ Metromover Replacement:** Based on the final negotiated price to rehabilitate the existing 136 rail car fleet, current operating and market conditions, and the results of life cycle cost analyses of new versus rehab, the County has determined that the procurement of new rail cars in lieu of rehabilitation would present a best value procurement option for the County at this time. The Board of County Commissioners has approved the \$401 million procurement of 136 new Metrorail vehicles featuring more comfortable interiors and a self-diagnostic system to address mechanical issues before they result in failures.

The contract with Bombardier for the procurement of 29 new Metromover vehicles was approved in January 2006. The first 12 new mover cars were placed in service in phases, at a cost of \$26.7 million, prior to the start of the 2009 calendar year. The Board of County Commissioners has exercised the option to purchase the remaining 17 cars at \$41 million. The new vehicles feature a sturdier design to withstand Miami's subtropical environment and a modern sloped front-end design.

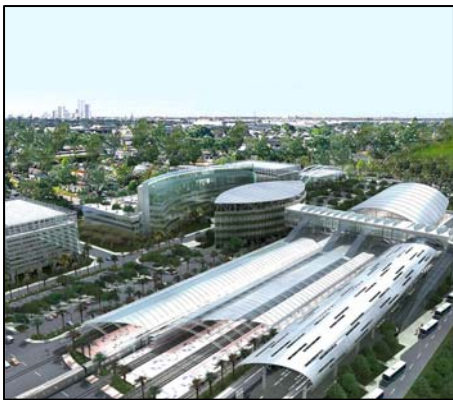
**Automated Fare Collection:** The Board of County Commissioners has awarded a contract to Cubic of \$42 million, not to exceed \$80 million, for the new Automated Fare Collection System (EASY Card), which will improve passenger convenience and reduce fare evasion by providing a reusable, reloadable card, embedded with a computer chip, to pay for fares on the Metrobus and Metrorail systems. Installation of all the MDT equipment is underway and is expected to be completed by summer 2009.

**Buses:** MDT continues its bus replacement program. Funding is provided through the People's Transportation Plan (PTP) and through Congestion Mitigation and Air Quality (CM) Federal funding made available through the State. MDT is currently working with the Department of Procurement Management to procure thirteen 40-foot diesel-electric hybrid buses for fleet

## PUBLIC TRANSPORTATION IMPROVEMENTS (Continued)

replacement and nineteen 60-foot diesel-electric hybrid buses for use on the new 95 Express Lanes and planned Kendall BRT Lite corridor. The new 95 Express hybrid buses are scheduled to enter service in 2010.

**Safety:** Funding is programmed to purchase security equipment, to continue upgrades and installations of closed circuit camera television systems (CCTV) and to continue the replacement of fire detection and reporting systems. In keeping with MDT's commitment to the safety and security of its system, staff has completed the installation of digital monitoring equipment at several key locations throughout MDT. In an effort to further complement its existing security infrastructure, MDT continues to add state-of-the-art technology to reduce crime and aid law enforcement in apprehending subjects. Florida Department of Transportation (FDOT), Rule 14-15.017(2.2.1), however, prevents us from disclosing these improvements in greater detail.



Miami Intermodal Center Core



East/West Metrorail Staged Station Rendering

**Passenger Facilities:** Additional Park and ride facilities, designed to address parking demand on the southern end of the existing Metrorail line and along the Busway continue to be planned and developed. New sites funded with state and local moneys to be developed include sites serving the South Miami-Dade Busway :

SW 344th Street            261 spaces parking lot with a May 2012 anticipated opening.

SW 168th Street            149-space existing parking lot to be purchase by Transit.

### **Serving other bus routes:**

Golden Glades 936-space park and ride lot, owned by FDOT and leased to MDT. Golden Glades Park and Ride is the oldest and most heavily used park and ride facility in Miami-Dade County. State is undertaking a project to use the east lot to expand capacity and is designing a multi-model facility at the west lot.

### **FUTURE PARK & RIDE SITES**

SW 186 Street / Busway - Quail Roost Transit Village Project .

MDT is negotiating to lease 500 parking spaces at a Transit Oriented Development adjacent to the Busway between SW 184 Street and SW 186 Street.

## PUBLIC TRANSPORTATION IMPROVEMENTS (Continued)

### SW 127 Avenue / Kendall Drive

Future Park and Ride on a 2.5 acres on the southeast corner of S.W. 88th Street (Kendall Drive) and SW 127<sup>th</sup> Avenue, with 181 spaces and an August 2010 anticipated opening.

### NW 186 Street / 73 Avenue.

Future Park and Ride on a 2 acre site at NW 186 Street / 73 Avenue. Design is completed. Construction completion is expected by summer 2010. This is a Parks and Recreation parcel (under FPL Right of Way), with approximately 140 parking spaces. MDT has a 30 year Interdepartmental Agreement with Parks which is renewable in perpetuity at the sole discretion of Parks.

### Other proposed parking lots/Park & Rides/garages under negotiation:

S.W. 136th Court / S.W. 72nd Street (Sunset Drive), with 100 spaces

S.W. 127th Avenue / S.W. 80 Street at the soccer park with 200 spaces

S.W. 127th Avenue / S.W. 104th Street (Killian Drive), with 100 spaces

Busway / S.W. 216th Street, with 150 spaces

Kendall Town Center (Kendall Drive / SW 162nd Avenue), with 45 spaces and an anticipated June 2011 opening

Douglas Road Station (under guideway), with 50 spaces

Northeast Passenger Activities Center (NE 15th Avenue / NW 165th Street), with a minimum of 25 spaces.

7th Avenue Transit Village (NW 7th Avenue / NW 62nd Street), with 60 spaces

Dolphin Station (NW 12th Street / NW 107th Avenue), with 260 spaces

Dadeland North Station (FEC right-of-way property)

Additional site has been identified and will be implemented subject to availability of funding at the following intersection: Douglas Road / U.S.-1. Funding continues for the installation of protective canopies at Metrorail stations, bus stops and over outdoor escalators. In addition, escalators and elevators will be replaced.





## PUBLIC TRANSPORTATION IMPROVEMENTS (Continued)

### RAPID TRANSIT CORRIDOR DEVELOPMENT (ORANGE LINE)

**MIC Extension to Earlington Heights:** The MIC/Earlington Heights extension is a 2.4-mile heavy rail extension that will extend from the Miami Intermodal Center (MIC) to the existing Earlington Heights Metrorail Station. The project includes a station at the MIC. The MIC will serve as a central transfer point for Metrorail, Metrobus, Tri-Rail, Amtrak and charter services; it will also consolidate rental car agencies into one facility. Funding will enable further advancement of this project to coordinate with the completion of the MIC-Miami International Airport (MIA) Connector-People Mover Project. The MIC-MIA Connector-People Mover will allow MIA to link with the MDT's Metrorail system. Estimated project cost is \$526 million, with estimated completion in the fourth quarter of FY 2012.



NW 199 Street Metrorail Station Rendering



MIC / Earlington Heights Bus Plaza Rendering

**North Corridor:** The North Corridor is a 9.5-mile, seven (7) station, heavy rail project with its northernmost terminus located at NW 215 Street (County Line Road) and NW 27<sup>th</sup> Avenue. Its southernmost terminus will be located at the current Dr. Martin Luther King, Jr. Metrorail Station. The seven (7) proposed Metrorail stations are expected to be located at the Northside Shopping Center, City of Opa-Locka, Miami-Dade Community College/North Campus, Palmetto Expressway (SR 826), Carol City Shopping Center (N.W. 183 Street), Dolphin Stadium (N.W. 199 Street), and the Homestead Extension of Florida's Turnpike (HEFT). There is provision for a future station at the intersection of NW 103rd Street and NW 27<sup>th</sup> Avenue. Estimated project cost is \$1.334 billion in inflation-adjusted dollars (without finance charges), with estimated completion in the fourth quarter of 2017.

### **East-West Corridor:**

A 10 to 13-mile Metrorail extension from the Miami Intermodal Center (MIC) at the Miami International Airport (MIA) to Florida International University (FIU) and points west to SW 137<sup>th</sup> Avenue. The project includes a maximum of 10 stations to be completed in the fourth Quarter of 2023. Estimated project cost is \$1.4 to \$2.3 billion in Year-of-Expenditure (YOE).

## SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY



The South Florida Regional Transportation Authority's (SFRTA) mission is to provide greater mobility in South Florida, thus improving the economic viability and the quality of the Community, Region and State. SFRTA operates the Tri-Rail Commuter Rail System. SFRTA, per its legislation, is charged with the responsibility of having the overall authority to coordinate, develop and operate a regional transportation system within the area served. The following projects are funded in the Fiscal Year 2010 thru 2014 period.



79<sup>th</sup> Street Tri-Rail / Metrorail East Platform Rendering



Southbound Tri-Rail Train along I-95

**TICKET VENDING MACHINES WITH SMART CARD TECHNOLOGY:** SFRTA is examining the implementation of universal fare card technology usually referred to as smart card to enhance the efficiency of intermodal transfers throughout South Florida. SFRTA has programmed capital funds for the procurement and implementation of a new generation of Ticket Vending Machines with Smart Card Technology to provide a seamless regional transportation system.

**ROLLING STOCK:** Purchase of additional trains will allow SFRTA to run twenty-minute service headways during rush hour, which is a requirement of the Full Funding Grant Agreement (FFGA) between SFRTA and the Federal Transit Administration (FTA). Two cars are on order as part of the Segment 5 Double Track Corridor Improvement Program and are funded by the Federal Transit Administration Full Funding Grant Agreement. An additional eight cab cars and four trailer cars are under contract and were funded using FTA, Florida Department of Transportation (FDOT) Transportation Regional Incentive Program (TRIP) funds and SFRTA County Capital Funds. Anticipated delivery of two cars is by September, 2010 and the additional eight cab cars and four trailer cars are expected to be delivered by October, 2010.

**ROLLING STOCK OVERHAUL / SPARE PARTS:** Rolling stock is one of SFRTA's major capital investments and must be well maintained to maximize its service life. SFRTA's capital budget includes a line item that funds the overhaul and rehabilitation of rail equipment and the purchase of spare components and other items for Tri-Rail trains.

## **SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY (Continued)**

### **TRI-RAIL STATION AND PARKING LOT IMPROVEMENTS**

SFRTA's Planning Department completed a Tri-Rail Parking and Circulation Study in April, 2007. The study, which was updated in 2008, evaluated parking facilities and various other passenger amenities at all Tri-Rail stations. As a result of the study, recommended parking, access and miscellaneous improvements and upgrades to Tri-Rail stations are programmed for implementation. Station improvements are programmed in the next five years for Golden Glades, Metrorail, and various other Tri-Rail stations

### **GENERAL ENGINEERING CONSULTANTS**

This budget item provides funding for the hiring of General Engineering Consultants. All contracts will be work-order based. Design work in support of parking and station improvements is underway.



Tri-Rail RTA Train on the move



Tri-Rail train at Station

**PLANNING AND CAPITAL DEVELOPMENT:** SFRTA's short and long term planning efforts and activities conducted by the Planning Department are included in this line item. This item facilitates the performance of planning and capital development studies and projects such as the Transit Development Plan (TDP) and others.

**OPERATION DEPARTMENT PROJECTS:** SFRTA's budget includes funds for operational support projects. Operational support projects consist of on-going miscellaneous station improvement projects, rolling stock overhaul projects and improvements at the Hialeah Yard. The Addition of rail at Hialeah Yard is programmed during FY 2010.

**CAPITAL IMPROVEMENT PROJECTS:** Capital improvement projects typically include funds for projects such as the purchase of office and telecommunication equipment for SFRTA's Customer Service Center, leasehold improvements and the purchase of new and replacement vehicle for SFRTA's fleet.

**PREVENTIVE MAINTENANCE:** The projects under this line item include preventive maintenance expenses incurred by SFRTA which are allowable expenditure of capital funds under FTA guidelines. Capitalized preventive maintenance costs include such items as rolling stock maintenance, station maintenance and ticket vending machine maintenance



**APPENDIX A**

**Completed  
Highway Project  
Listings**

FY 2009 TIP Completed Projects  
Florida Department of Transportation District 6

	Project Name	Project No.	Limits	Type of Work	Completion
1	Okeechobee Road	25010545201	East of W. 12th Ave to W 19 Street	Landscaping	January-08
2	Interstate-95	41067935201	NW 154th St to NW 130 Street	Landscaping	January-08
3	Palmetto Expressway	24964815201	Interchanges of SW 24th St/Coral Way & SR 90/SW 8th St	Add Lanes & Reconstruct	January-08
4	Palmetto Expressway	24964915201	SW 2nd St to SW 16 Street	Add Lanes & Reconstruct	January-08
5	NW 103rd Street/ W 49th Street	41791415201	W 2nd Ave to E 10 Ave	Resurfacing	January-08
6	Coral Way	41642125201	SW 25th Ave to SW 3 <sup>rd</sup> Ave	Sidewalk	February-08
7	W. Flagler Street	41462915201	Tamiami Canal Dr to NW 69 Ave	Resurfacing	March-08
8	NW 7th Avenue	41823815201	NW 101st St to NW 113 St	Pedestrian Safety Improvement	April-08
9	NW 27th Avenue	41823825201	NW 79th St to NW 103 St	Pedestrian Safety Improvement	April-08
10	NW 119th Street	41823835201	NW 17th Ave to NW 7 Ave	Pedestrian Safety Improvement	April-08
11	NW 7th Avenue	25017325201	NW 36th St to NW 79 St	Landscaping	May-08
12	Florida Turnpike	41464715201	Ext. SR 826 to SB off ramp	Resurfacing	May-08
13	LeJeune Rd MIC /MIA Interchange	40883415201	LeJeune Rd @ 21st St	Interchange (Major)	May-08
14	LeJeunce Rd – MIC/MIA Connector, Mover	40832015201	MIC/MIA Connector People Mover	Intermodal Hub Capacity	May-08
15	LeJeune Road - MIC Terminal Access Roadways Bridges 7 & 10	24993725201	MIC Terminal Access Roadways (Bridges 7 & 10)	Intermodal Hub Capacity	May-08

FY 2009 TIP Completed Projects (Continued)  
 Florida Department of Transportation District 6

	Project Name	Project No.	Limits	Type of Work	Completion
16	LeJeune Road - MIC LeJeune Road, C-D Northbound	25023425201	MIC LeJeune Rd C-D northbound	Add Thru Lane(s)	May-08
17	LeJeune Road - MIC C-D Southbound Package #2	25023445201	MIC C-D southbound Package #2	New Road Construction	May-08
18	LeJeune Road - MIC Water Main Installation on SR 953 NW 42nd Avenue	25023455601	MIC SR 953/NW 42nd Ave: NW 11th St - NW 25th St	Intermodal Hub Capacity	May-08
19	Biscayne Boulevard	40564115201	NE 6th St to South of NE 78th St	Flexible Pavement Reconstruction	May-08
20	Interstate-95	25166935201	NW 127th St to Opa-Locka Blvd	Add Auxillary Lane(s)	June-08
21	Biscayne Boulevard	24983555201	NE 5th St to NW 13 <sup>th</sup> St	Landscaping	June-08
22	SW 112th Avenue/Allapattah Road	41462115201	SW 222nd St to US 1 / SR 5	Resurfacing	June-08
23	W 21st Street	41806615201	W 4th Ave to E 4 <sup>th</sup> Ave	Resurfacing	June-08
24	US-1	24935615201	North of County Line to Mile Marker 113	Flexible Pavement Reconstruction	June-08
25	NW 103rd Street	41823845201	W 24th Ave to E 4 <sup>th</sup> Ave	Intersection (Minor) Ped Improvements/ ADA	July-08
26	NW 103rd Street	40757725201	NW 87th Ave to W 2 <sup>nd</sup> Ave	Intersection (Minor) ADA Ramp	July-08
27	Biscayne Boulevard	40564135201	South of NE 78th St to NE 87 St	Flexible Pavement Reconstruction	July-08

FY 2009 TIP Completed Projects (Continued)  
 Florida Department of Transportation District 6

	Project Name	Project No.	Limits	Type of Work	Completion
28	SW 107th Avenue	41464215201	SW 56th St to SW 40 St	Resurfacing	July-08
29	West Dixie Highway	41275435201	NE 119th St to NE 151 St	Landscaping	July-08
30	US-1	41475415201	SW 17th Ave to SW 112 Ave	ITS Surveillance System	July-08
31	NW 136th Street/ Opa Locka Boulevard	41461815201	NW 27th Ave to NW 7 <sup>th</sup> Ave	Resurfacing	August-08
32	Galloway Road / SW 87th Avenue	41462715201	SW 96th St to SW 41 <sup>st</sup> St	Resurfacing	October-08
33	Julia Tuttle Causeway	41309025201	Over Intracoastal Waterway (Phase II)	Bridge-Repair/ Rehabilitation	November-08
34	Julia Tuttle Causeway	41309015201	Over Intracoastal Waterway	Bridge-Repair/ Rehabilitation	November-08
35	Red Road/57th Avenue	42422015201	SW 24th St to SW 22 <sup>nd</sup> St	Drainage Improvements	December-08
36	US-441/7th Avenue	41641915201	SW 8th St to NW 3 <sup>rd</sup> St	Sidewalk	December-08
37	NW 72nd Avenue/ Milam Dairy Road	41462215201	Flagler St to NW 25 <sup>th</sup> St	Resurfacing	December-08



FY 2009 TIP Completed Projects  
 Florida Department of Transportation  
 Turnpike Enterprise

	Project Name	Limits	Phase	Completion
1	Relocation of Golden Glades Truck Staging Area	Relocate from Golden Glades Toll Plaza to Golden Glades Park and Ride Lot	Construction	2007
2	Convert NW 106 <sup>th</sup> Street Ram Plaza to SunPass	NW 106 <sup>th</sup> Street and HEFT	Construction	2007
3	Open Road Tolling Lanes at Bird Road and Homestead Main Plazas	Bird Road and Homestead Main Plazas	Construction	2007

FY 2009 TIP Completed Projects  
 Miami-Dade Expressway Authority (MDX)

	Project Name	Project No.	Limits	Type of Work	Completion
1	SR 874 Northbound On-Ramp from Kendall Drive	87407	Kendall Drive to SW 72nd Street	Construction of a northbound on-ramp from Kendall Drive to SR 874 northbound	Bridge opening ceremony held in November 2008
2	Open Road Tolling (ORT) Master Plan and Community Outreach	10012	Systemwide	Development of ORT Master Plan to establish the phased implementation plan for the deployment of open road tolling systemwide, including community outreach efforts and the procurement of system integration services for systemwide implementation	Notice to Proceed to system integrator scheduled for March 2009

## FY 2009 TIP Completed Projects

### Miami-Dade Public Works Department

	<b>Project Name</b>	<b>Limits</b>	<b>Type of Work</b>	<b>Status</b>
1	Rickenbacker Causeway (Ph. 3)	Toll Plaza to East end of Hobie Island	Resurfacing, bike lane	Construction completed
2	NW 17 Avenue	NW 119 Street to Opa-locka Boulevard	Widen road to 5 lanes	Construction completed
3	SW 42 Street	SW 150 Avenue to SW 149 Avenue	Widen road to 4 lanes	Construction completed
4	SW 117 Avenue	SW 184 Street to SW 152 Street	Widen road to 4 lanes	Construction completed
5	SW 137 Avenue	SW 88 Street to SW 84 Street	Road reconstruction	Construction completed
6	SW 184 Street	SW 137 Avenue to SW 127 Avenue	Widen road to 4 lanes	Construction completed
7	SW 328 Street	SW 162 Avenue to SW 152 Avenue	Widen road to 4 lanes	Construction completed
8	NW 62 Street	NW 47 Avenue to NW 37 Avenue	Road reconstruction	Construction completed
9	SW 97 Avenue	SW 72 Street to SW 40 Street	Widen road to 3 lanes	Construction completed

## **APPENDIX B**

### **Under Construction Highway Project Listings**

FY 2009 TIP Under Construction Projects  
 Florida Department of Transportation District 6

	Project Name	Project No.	Limits	Type of Work	Estimated Completion
1	Flagler Street	42270015201	@ SW 38th Ct		
2	Killian Drive/ SW 112th Street	42270315201	@ SW 82nd Ave		
3	Tamiami Trail	41965815201	MP 10 to MP 13.8 (L67-A)		
4	Indian Creek	24994015201	63rd St to Abbott Ave		
5	Indian Creek	24994015202	63rd St to Abbott Ave		
6	63rd Street	40793515201	63rd St Bascule Bridge		
7	Sunny Isles Boulevard	25006525201	Bascule Bridge Control House Repairs		
8	Interstate-75	25163025201	Palmetto Expy to Broward County Line		
9	SW 8th Street	41464615201	Beacon Blvd to SW 4 <sup>th</sup> Ave		
10	NW 79th Street	41985515201	NW 12th Ave to NW 7 <sup>th</sup> Ave		
11	Harding Avenue	24956125201	NE 87th St to NE 96 <sup>th</sup> St		
12	NW 21st Street	24993775201	NW 42nd Ave to NW 37 <sup>th</sup> Av		
13	NW 27th Street, NW 28th Street & NW 39th Avenue	25023465201	NW 27th St, NW 28th St & NW 39th Ave		
14	SW/NW 27th Avenue	41984715201	SW 8th St		
15	NW 12th Avenue	24964015201	NW 12th Ave over Miami River		

FY 2009 TIP Under Construction Projects (Continued)  
 Florida Department of Transportation District 6

	Project Name	Project No.	Limits	Type of Work	Estimated Completion
16	Biscayne Boulevard	41462315201	SE 2nd St to NE 5 <sup>th</sup> St	Resurfacing	July-09
17	SW/NW 12th Avenue	41464315201	SW 13th St to NW 7 <sup>th</sup> St	Resurfacing	July-09
18	Interstate-395	42269415201	I-95 to Biscayne Blvd	Bridge-Repair/ Rehabilitation	July-09
19	Quail Roost Drive/ SW 200th Street	42270215201	SW 200th St @ SW 147th Ave	Safety Project	July-09
20	Interstate-395	25168615201	NW 7th Ave E to Alton Road	ADV Traveler Information System	July-09
21	Palmetto Expressway	41476025201	NW 25th St to I-75	ITS Surveillance System	July-09
22	SW 344th Street/ West Palm Drive	42269815201	@ NW 7th Ave	Safety Project	August-09
23	NE 6th Avenue	42270115201	136th St to 137 <sup>th</sup> St	Pedestrian Safety Improvement	August-09
24	Tamiami Trail	41949615201	MP 0.000 - MP 10.000/ MP 24.700 - MP 25.700	Safety Project	August-09
25	Brickell Avenue	41247335201	SE 25th Rd to SE 5 <sup>th</sup> St	ADV Traveler Information System	August-09
26	NW 7th Avenue	25008135201	NW 107th St to NW 137 <sup>th</sup> St	Landscaping	August-09
27	NE 96th Street/ Kane Conc	41839515201	E Bay Harbor Dr to W Broadview Drive	Lighting	August-09
28	Collins Avenue	41806715201	15th St to Lincoln Road	Resurfacing	September- 09
29	McArthur Causeway	41463515201	Ramp to Watson Island to Terminal Island	Resurfacing	September- 09
30	SR-826 NW 7th Avenue Extension	41808815201	Turnpike Bridge to SR 7 / NW 22 <sup>nd</sup> Ave	Resurfacing	September- 09

FY 2009 TIP Under Construction Projects (Continued)  
 Florida Department of Transportation District 6

	Project Name	Project No.	Limits	Type of Work	Estimated Completion
31	NE 123rd Street	41807115201	Biscayne Blvd to E of Bayshore Drive	Resurfacing	October-09
32	Biscayne Boulevard	40564125201	NE 67th St to NE 87 <sup>th</sup> St	Landscaping	October-09
33	SR A1A	25015325201	Baker's Haulover Cut Bridge 870071	Bridge-Repair/ Rehabilitation Replace Fenders	October-09
34	Okeechobee Road	42269915201	@ NW 154th Ave	Traffic Signals	October-09
35	SR 826/ at NW 122nd Street	41611715201	W 21st Ct to W 20 <sup>th</sup> Ave	Interchange Ramp (Modify)	November-09
36	NW 36th Street	41643725201	@ Crossing # 628377P	Railroad Signal	November-09
37	Various Locations	41807855201	Biscayne Park, Miami Shores, N Miami, N Miami Beach, SRSFDE, Golden Beach	Drainage Improvements	November-09
38	Various Locations	41807865201	Coral Gables, W. Miami, S. Miami, Pincecrest, Florida City	Drainage Improvements	November-09
39	Various Locations	41807875201	Hialeah, Hialeah Gardens, Medley, Opa-Locka	Drainage Improvements	November-09
40	Various Locations	41807885201	Miami Beach, Miami Springs, Miami, Virginia, Gardens	Drainage Improvements	November-09
41	Interstate-95	41067945201	NW 110th St to NW 130 <sup>th</sup> St	Landscaping	November-09
42	NW 42nd Avenue/ LeJeune Road	41524015201	SR 836 to NW 28 <sup>th</sup> St	Landscaping	December-09
43	Coral Way	41247515201	SR 836 to NW 28 <sup>th</sup> St	Resurfacing	December-09
44	NW 87th Avenue	41809015201	Flagler St to NW 12 <sup>th</sup> St	Resurfacing	January-10
45	NW 87th Avenue	41809015202	Flagler St to NW 12 <sup>th</sup> St	Safety Project	January-10
46	Interstate-95 Express	41545615201	SR-836/I-395 to Golden Glades	Add Special Use Lane	April-10

FY 2009 TIP Under Construction Projects (Continued)  
 Florida Department of Transportation District 6

	Project Name	Project No.	Limits	Type of Work	Estimated Completion
47	NW 5th Street	41280815201	NW 3rd St to NW 8 <sup>th</sup> St	Replace Movable Span Bridge	May-10
48	SR-5/US-1	24985645201	MM 115.94 to SW 344 <sup>th</sup> St	Flexible Pavement Reconstruction	June-11
49	NW 25th Street	25118525201	Palmetto Expy to NW 67 <sup>th</sup> Ave	Add Lanes & Reconstruct	February-12
50	NW 25th Street Viaduct	40566535201	Palmetto Expy to NW 68 <sup>th</sup> Ave	New Road Construction	February-12
51	Palmetto Expressway	24903515201	@ Miller Dr, SR 874 & Bird Rd	Reconstruction	September-12

FY 2009 Under Construction Highway Projets  
 Turnpike Enterprise

	Project Name	Limits	Phase	Completion
1	Homestead Extension of Florida's Turnpike	New Interchange at NW 74 <sup>th</sup> Street	Construction	Expected to open late 2009
2	Homestead Extension of Florida's Turnpike	Okeechobee Plaza ORT	Construction	Expected to open late 2009
3	Homestead Extension of Florida's Turnpike	Mile Post 0 to Mile Post 9.2	Resurface and guardrail	May 2010
4	Homestead Extension of Florida's Turnpike	Mile Post 11.8 to Mile Post 16.4 And MP 20 to 22	Resurface	November 2009

## FY 2009 TIP Under Construction Projects

### Miami-Dade Public Works Department

	<b>Project Name</b>	<b>Limits</b>	<b>Phase</b>	<b>For Information</b>
1	NW 72 Avenue	NW 74 Street to Okeechobee Road	Widen road to 4 lanes	Under construction
2	NE 2 Avenue	NE 91 Street to NE 105 Street	Roadway improvements	Under construction
3	NE 15 Avenue	NE 163 Street to NE 170 Street	Widen road to 4 lanes	Under construction
4	NE 15 Avenue	NE 159 Street – NE 163 St to NE 170 St – Miami Gardens Dr	Widen road to 3 lanes, intersection improvements	Under construction
5	NW 97 Avenue	NW 138 Street to NW 154 Street	New 4 lanes	Under construction
6	SW 127 Avenue	SW 120 Street to SW 88 Street	Widen road to 4 lanes	Under construction
7	SW 136 Street	SW 154 Avenue to SW 139 Court	Widen road to 4 lanes	Under construction
8	SW 157 Avenue	SW 120 Street to SW 112 Street	New 4 lanes	Under construction
9	NW 74 Street	NW 107 Avenue to NW 87 Avenue	New 6 lanes	Under construction
10	NW 74 Street	NW 87 Avenue to NW 84 Avenue	Road reconstruction	Under construction



FY 2009 TIP Under Construction Projects  
Miami-Dade Expressway Authority (MDX)

	<b>Project Name</b>	<b>Project No.</b>	<b>Limits</b>	<b>Type of Work</b>	<b>Estimated Completion</b>
1	Central Boulevard Reconstruction	11211	Airport Terminals to SR 836 & SR 112	Includes JPA with FDOT and Miami International Airport for partial funding and construction of Central Boulevard, the primary access roadway between MIA and SR 112 and SR 836	Planning Phase
2	SR 836 Landscaping	83617	NW 137th Ave. to NW 87th Ave.	Installation of landscaping along the new SR 836 Extension projects	All sections completed with the exception of SR 836 from 97th Avenue to 87th Avenue which is scheduled for completion in FY 2010
3	SR 836 / SR 112 Interconnector	83603	SR 836 to SR 836 & SR 112	Funding JPA for acquisition of ROW by FDOT for Interconnector from SR 836 to Central Boulevard. Design and construction by FDOT of C-D roads to access MIC and MIA from SR 836 with provisions for connections to SR 836 Managed Lanes. Refer to FDOT FM 2502	Construction on-going. MDX continues to comply with JPA's disbursement schedule
4	SR 826 / SR 836 Interchange Improvements	83608	SR 826 Interchange to SR 836	Includes Design, Construction and Right-of-Way JPA w/ FDOT for partial funding of SR 826 / SR 836 interchange. Refer to FM 249581	Pending construction letting by FDOT
5	SR 836 Southwest Extension Concept Report	83618	SW 136th St. to NW 137th Ave.	Project development and preparation of concept report for new expressway extension of SR 836 from NW 137th Avenue to SW 136th Street, as part of MDX Long Range Plan	Procurement of PD&E services to start upon incorporation of project into MPO Long-Range Transportation Plan in Jan. 2010

FY 2009 TIP Under Construction Projects (Continued)  
Miami-Dade Expressway Authority (MDX)

	<b>Project Name</b>	<b>Project No.</b>	<b>Limits</b>	<b>Type of Work</b>	<b>Estimated Completion</b>
6	SR 836 Eastbound Auxiliary Lane	83622	SR 826/SR 836 Interchange to NW 42nd Ave.	Construction of an additional auxiliary lane on SR 836 to match FDOT's SR 826 / SR 836 Interchange on the west & NW 42nd Avenue on the east	Design-Build phase scheduled to begin in June 2009
7	SR 836 Emergency Ramp	83625	NW 107th Avenue to SR 836	Design and construction of access ramp from 107th Avenue to the MDX SR 836 WB Extension for exclusive use of emergency vehicles	Planning Phase
8	SR 836 Auxiliary Lanes and Interchange Improvements	83628	27th Avenue to 57th Avenue	Project development for the construction of SR 836 Eastbound Auxiliary Lane from 42nd Ave. to 17th Ave.; SR 836 Westbound additional lanes from 27th Ave. to 57th Ave. and improvements to the SR 836/LeJeune Interchange as well as to the SR 836/27th Ave. Interchange	Planning Phase
9	SR 836 Interchange Modifications at 87th Avenue	83629	SR 836 to 87th Avenue	Reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange to enhance operations	Planning Phase
10	SR 874 / Killian Parkway Interchange Improvements	87404	Homestead Extension of Florida's Turnpike to Kendall Drive	Modification of Killian Parkway Interchange and provision for new northbound & southbound electronic toll collection gantries. Includes removal of existing northbound and southbound toll plazas; roadway widening and installation of sound barrier walls	Construction on-going
11	SR 874 Mainline Reconstruction	87409	Kendall Drive to SR 826	Reconstruction & modification of SR 874 mainline from Kendall Drive to SR 826 including a portion of the SR 874 / SR 878 interchange. Preparation of noise analysis report & concept study for potential modifications to the SR 874 and 72nd Street Interchange	Final Design to begin in April 2009

FY 2009 TIP Under Construction Projects (Continued)  
Miami-Dade Expressway Authority (MDX)

	<b>Project Name</b>	<b>Project No.</b>	<b>Limits</b>	<b>Type of Work</b>	<b>Estimated Completion</b>
12	SR 874 Connector	87410	SW 136th Street to SR 874	Project development and preparation of concept report and PD& E Study for a connection from SR 874 to SW 136th Street as part of the MDX Master Plan and the MPO Long Range Transportation Plan	PD&E study to begin June 2009
13	SR 874/SR 826 Interchange Improvements	87411	North of SR 874/SR 826 Interchange to South of SR 874/SR 826 Interchange	Contribution of monies to FDOT via Joint Participation Agreement towards the reconstruction of the SR 874 / SR 826 Interchange to facilitate the construction of MDX project 87409	On-going coordination with FDOT for preparation of Environmental Assessment
14	SR 874 Infrastructure Modifications for Open Road Tolling	87412	Homestead Extension of Florida's Turnpike to SR 826	Installation of gantries, shelter, pavement and signage for implementation of Open Road Tolling	Design-Build services scheduled for advertisement in March 2009
15	SR 878 Infrastructure Modifications for Open Road Tolling	87801	SR 874 to U.S. 1	Installation of gantries, shelter, pavement and signage for implementation of Open Road Tolling	Design-Build services scheduled for advertisement in March 2009
16	SR 924 Extension West to the Homestead Extension of the Florida's Turnpike	92404	SR 826 to the Homestead Extension of the Florida's Turnpike	Project development and preparation of concept report and PD&E Study for a new expressway extension from SR 924 west to the Homestead Extension of the Florida's Turnpike (HEFT) as part of the MDX Master Plan the MPO Long Range Transportation Plan	Planning Phase
17	SR 924 Infrastructure Modifications for Open Road Tolling	92405	57th Avenue to 27th Avenue	Removal of existing toll plaza, installation of gantries, shelter, signage, reconstruction, milling and resurfacing of the SR 924 roadway to accommodate highway-speed vehicle traffic for implementation of Open Road Tolling. Also includes milling, resurfacing and misc. upgrades from NW 57th to NW 27th Avenues	Design-Build services scheduled for advertisement in March 2009

FY 2009 TIP Under Construction Projects (Continued)  
 Miami-Dade Expressway Authority (MDX)

	<b>Project Name</b>	<b>Project No.</b>	<b>Limits</b>	<b>Type of Work</b>	<b>Estimated Completion</b>
18	SR 924 Extension East to I-95	92407	NW 42nd Avenue to I-95	Preparation of PD&E Study for a new expressway extension from SR 924 east to I-95 as part of the MDX Master Plan and the MPO Long Range Transportation Plan	Planning Phase
19	SR 112 Communications and Incident Mgmt. /Surveillance	10007	Miami International Airport to I-95	Installation of communications system integrating FDOT and Miami-Dade County systems with MDX system. Installation of incident management and traffic surveillance equipment on SR 112	Construction 50% complete.
20	SR 924 Communications and Incident Mgmt. /Surveillance	10009	SR 826 to NW 27th Ave.	Installation of communications system integrating FDOT system with MDX system. Installation of incident management and traffic surveillance equipment on SR 924	Construction 50% complete.
21	SR 874 / SR 878 Communications and Incident Mgmt. /Surveillance	10010	SR 874 to U.S. 1	Installation of communications system integrating SR 874 / SR 878 to Miami-Dade County system and HEFT along U.S. 1. Installation of incident management and traffic surveillance equipment on SR 874 / SR 878	Construction 50% complete.
22	SR 924 Toll System Conversion	10013	SR 826 to NW 27th Ave.	Conversion of SR 924 toll facility from the existing toll collection system to an Open Road Tolling (ORT) system	Procurement of system integrator underway
23	SR 878 Toll System Conversion	10014	SR 874 to U.S. 1	Conversion of SR 878 toll facility from the existing toll collection system to an Open Road Tolling (ORT) system	Procurement of system integrator underway

FY 2009 TIP Under Construction Projects (Continued)  
Miami-Dade Expressway Authority (MDX)

	<b>Project Name</b>	<b>Project No.</b>	<b>Limits</b>	<b>Type of Work</b>	<b>Estimated Completion</b>
24	SR 874 Toll System Conversion	10015	SR 826 to the Homestead Extension of the Florida's Turnpike	Conversion of SR 874 toll facility from the existing toll collection system to an Open Road Tolling (ORT) system	Procurement of system integrator underway
25	Systemwide Open Road Tolling Hardware/Software Development	10018	Systemwide	Development of systemwide hardware and software and enhancements to the violation enforcement system to accommodate requirements for Open Road Tolling	Procurement of system integrator underway
26	Systemwide Planning Studies	20002	Systemwide	Systemwide planning studies inclusive of the Connect 4-Expressway, U.S. 27 Okeechobee Road, U.S.1 Reversible Lanes and Airport/Seaport Managed Lanes	Planning Phase
27	U.S. 1 Managed Lanes	20003	SW 344 Street to SW 88 Street	Preparation of PD&E Study to convert existing Busway into Managed Lane facility as part of the MDX Master Plan. Project to be incorporated into the MPO Long Range Transportation Plan	Procurement of PD&E services to start upon incorporation of project into MPO Long-Range Transportation Plan in Jan. 2010

