



MIAMI-DADE COUNTYWIDE

# Consolidated Park-and-Ride Facilities Plan





# **Miami-Dade Consolidated Park-and-Ride Facilities Plan**

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# TABLE OF CONTENTS

	<u>Page</u>
List of Exhibits.....	iii
<b>1.0 PURPOSE OF THE REPORT .....</b>	<b>1</b>
<b>2.0 BACKGROUND .....</b>	<b>1</b>
<b>3.0 DATA GATHERING .....</b>	<b>3</b>
3.1 Coordination .....	3
3.2 Study Focus Elements.....	4
3.3 Inventory of Previous Studies and Plans .....	5
3.4 Existing Service/Facilities .....	5
3.5 Planned Facilities .....	5
<b>4.0 PLANNED PARK-AND-RIDE LOCATIONS.....</b>	<b>11</b>
<b>5.0 SCREENING/ANALYSIS .....</b>	<b>14</b>
5.1 Timing.....	14
5.2 Proximity to Existing or Planned Enhanced Bus and Express Transit Service .....	14
5.3 Specific Sites.....	15
5.4 Implementation Mechanisms .....	16
<b>6.0 PARK-AND-RIDE FACILITIES PLAN.....</b>	<b>19</b>
6.1 Evaluation Factors .....	19
6.2 Locations Assessment.....	19
6.3 Proposed Plan.....	20
<b>7.0 CONCLUSION .....</b>	<b>23</b>
Appendix A: TPTAC Sign-In Sheets	
Appendix B: Existing Transit Hubs	
Appendix C: Planned Transit Hubs	
Appendix D: Excerpts from MDT Transit Development Plan - TDP (2010 – 2019) and Updated List of Planned Park-and-Ride Facilities	
Appendix E: Priority I and II period (2010 – 2020) of the 2035 Long Range Transportation Plan – LRTP	
Appendix F: Transportation Improvement Program – TIP (2011 - 2015) - Excerpts	
Appendix G: Near Term Transit Plan (2012 – 2015) – Excerpts	
Appendix H: Existing Transit Line Ridership	
Appendix I: Existing Park-and-Ride Use	
Appendix J: Construction Cost Calculation	
Appendix K: Site’s Data Summary	

## LIST OF EXHIBITS

<u>Exhibit</u>	<u>Page</u>
1	Inventory of Relevant Park-and-Ride Reports.....6
2	Existing Inventory Enhanced Bus and Express Transit Lines .....7
3	Existing Inventory Park-and-Ride Facilities.....8
4	Existing Enhanced Bus and Express Service Facilities Map.....9
5	Planned and Programmed Improvements Enhanced Bus and Express Service.....10
6	Planned and Programmed Improvements - Park-and-Ride Facilities.....12
7	Existing and Planned Enhanced Bus and Express Service Facilities Map .....13
8	Comparison Matrix of Implementation Mechanism Advantages .....18
9	Proposed Park-and-Ride Facilities Plan.....21
10	Proposed Park-and-Ride Plan Map .....22

## 1.0 PURPOSE OF THE REPORT

The purpose of this report is to document the data gathering, evaluation, and recommendations from this study. The study was sponsored and managed by the Miami-Dade Metropolitan Planning Organization (MPO). The objective of this study was to examine planned and potential park-and-ride facilities that can be used to support enhanced bus and express transit lines. The study develops a plan for early procurement (purchase and/or leasing) of available suitable properties to enhance ridership patterns in planned priority transit corridors.

## 2.0 BACKGROUND

A park-and-ride facility is a parking lot (or garage) available for the use of transit patrons that choose to drive to these facilities, park their vehicles in the morning, and transfer to a transit line en route to their final destination. The user is typically a commuter that reverses the trip in the afternoon. Park-and-ride facilities are located along a major transit line and can have varying levels of amenities including:

- Automobile parking for park-and-ride daily users
- Automobile kiss-and-ride area for transit uses that are dropped-off in the morning and picked-up up the afternoon
- Bus bays immediately adjacent to the parking area
- Pedestrian facilities (e.g. sidewalks, lighting, etc.)
- Bicycle facilities (e.g. bike racks, lockers, etc.)

A number of studies have been conducted and plans developed to implement park-and-ride facilities along enhanced bus and express transit lines within Miami-Dade County over the last 12 year. These studies have been prepared over time by various jurisdictions/agencies such as the Miami-Dade Transit (MDT), the Florida Department of Transportation (FDOT), Tri-Rail, and some cities. However, a comprehensive, up-to-date plan does not exist. There is a need to prepare a consolidated plan that reflects existing facilities, planned facilities, and considers new

locations responsive to current and future needs which include recent changes to the existing transit system, as well as current short and medium term transit plans and needs.

This study addresses the issues listed above, considers previously identified and new potential locations, and includes a plan to secure/lease lands suitable for park-and-ride locations.



## 3.0 DATA GATHERING

A significant amount of planning has been undertaken by a number of agencies regarding park-and-ride facilities over the last 12 years. Through coordination with numerous transportation agencies these efforts were identified to form a base for the development of this study.

### 3.1 Coordination

Coordination was an essential step in identifying previous, as well as current park-and-ride facilities plans by various agencies. The coordination took place at two levels: 1) individually with all interested transportation agencies; and 2) periodic presentations to the various MPO committees.

The primary working group for the study was the Transportation Planning Technical Advisory Committee (TPTAC) which included, among others, representation from the agencies listed below:

- Miami-Dade County Department of Planning and Zoning (DPZ)
- Public Works Department (PWD)
- Miami-Dade Transit (MDT)
- Miami-Dade Expressway Authority (MDX)
- Florida Department of Transportation (FDOT)
- South Florida Regional Transportation Authority (SFRTA-Tri Rail)

The TPTAC provided input during two of their meetings (July 7, 2010 and October 6, 2010) (Appendix A). Additional input, when possible, was sought from other MPO committees such as the Transportation Planning Council (TPC).

## 3.2 Study Focus Elements

Given the number of studies and data available, it was necessary early on to clearly identify the relevant elements of this study:

- Existing and proposed enhanced bus and express transit service/corridors include express bus, limited-stops service (such as MAX, Flyer, KAT, Cruiser, etc.) and/or enhanced service or vehicle technology, Metrorail and Tri-Rail commuter trains (note: the geographic scope was limited to the Miami-Dade Urbanized Area).
- Existing and proposed park-and-ride facilities along existing and proposed enhanced bus and express transit lines and corridors.
- Existing and proposed transit hubs along existing and proposed enhanced bus and express transit lines and corridors (note: in this study a transit hub is simply a location where several transit routes terminate, regardless of the user facilities provided).
- The future planning period was limited to ten years (which corresponds with the MDT Transit Development Plan - TDP - and the Priority I and II period of the 2035 Long Range Transportation Plan - LRTP).

While the inventory process included all available data and documents, these were reviewed and the relevant data extracted based on the focus elements listed above.

It should be noted that a number of existing park-and-ride facilities are lacking amenities such as kiss-and-ride areas, pedestrian facilities, and/or bicycle facilities. When present, some of these facilities may be in need of repairs or enhancements. The focus of this study was on expanding existing parking facilities and/or proposing new ones. Therefore, an evaluation of the existing facilities condition and amenities should be conducted as a separate effort concurrently with the implementation phase of this study/recommended plan.

### **3.3 Inventory of Previous Studies and Plans**

Through a series of searches and inquiries, twenty-six (26) park-and-ride related studies and reports were identified and/or secured. These reports were sponsored by six agencies and/or departments as follows:

- Miami Urbanized Area Metropolitan Planning Organization (MPO)
- Miami Dade Transit (MDT)
- Miami Dade Department of Planning and Zoning (DPZ)
- Florida Department of Transportation (FDOT)
- Miami Dade Expressway Authority (MDX)
- South Florida Regional Transportation Authority (SFRTA)

While, these studies and reports spanned back to 1998, all but 3 of them were completed within the last 5 years. Exhibit 1 shows a list of the aforementioned documents.

### **3.4 Existing Service/Facilities**

The following exhibits show existing services/facilities directly or indirectly supporting enhanced bus and express transit. Exhibit 2 shows the 21 existing enhanced bus and express service transit lines. Exhibit 3 shows the 30 existing park-and-ride facilities. It should be noted that, today, the Metrorail system has nearly 10,000 parking spaces available for park-and-ride. In Miami-Dade the system-wide total is almost 13,000 spaces. Appendix B shows the 51 existing transit hubs. These listings were also plotted on a map (Exhibit 4) showing the geographic distribution/inter-relationship of the facilities.

### **3.5 Planned Facilities**

The following exhibits show planned services/facilities supporting enhanced bus and express transit. Exhibit 5 shows 45 planned and programmed enhanced bus and express service transit lines. Appendix C shows 78 planned and programmed transit hubs. Planned park-and-ride facilities are described in the analysis section below.

## Exhibit 1

### Inventory of Relevant Park-and-Ride Reports

<u>Report Date</u>	<u>Report Title</u>	<u>Agency</u>
<u>A. Inventory/Assessment Studies</u>		
December 2009	1 Transit Development Plan FY 2010-2019	MDT
July 2010	2 Current/Proposed Parking Inventory (7/7/10)	MDT
October 2009	3 Ridership Technical Report	MDT
December 2008	4 Tri-Rail Parking and Circulation Study	SFRTA
December 2005	5 MD County & Upper/Middle Keys 2005 P/R Plan	FDOT
2010	6 SFRTA Transit Development Plan FY 2010-19	SFRTA
<u>B. Special Studies</u>		
December 2009	1 FEC Transit Connection Study	Miami-Dade MPO
May 2009	2 Transit Hub Evaluation Study	Miami-Dade MPO
March 2008	3 Excess/Surplus Property Study	FDOT
January 2008	4 SR 836 Express Bus Serv/Park & Ride Evaluation	MDT
December 2004	5 Transit Center Connections	Miami-Dade MPO
June 1998	6 Alternatives for Intermodal Improvements	Miami-Dade MPO
September 2008	7 Strategic Regional Transit Plan	SFRTA
June 2009	8 SR826/SR836 Reconstruction (P/R Lots)	FDOT
October 2010	9 Near-Term Transit Enhancement Study	Miami-Dade MPO
<u>C. Transportation Plans/Programs</u>		
October 2009	1 2035 Long Range Transportation Plan	Miami-Dade MPO
June 2010	2 2011 Transportation Improvement Program	Miami-Dade MPO
April 2008	3 MD Comprehensive Development Master Plan	MD Planning
<u>D. Studies Planned or Underway</u>		
Underway	1 SR 826/836 Interchange	NA
Underway	2 SR 836 Advanced Bus Transit Study	MDX
Planned	3 US-1 Express PD&E Study	MDX
<u>E. Other Studies</u>		
June 2006	1 South Corridor Alternatives Analysis ( South Link Study)	Miami-Dade MPO
September 2008	2 South Dade Managed Lanes Study	Miami-Dade MPO
September 2007	3 Kendall Corridor Alternatives Analysis (Kendall Link Study)	Miami-Dade MPO
January 2006	4 I-75 Master Plan	FDOT

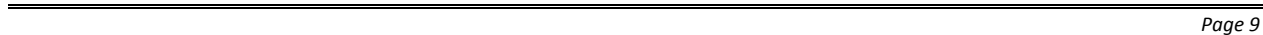
**Exhibit 2**  
**Existing Inventory**  
**Enhanced Bus and Express Transit Lines**

<b>System/Route</b>	<b>From</b>	<b>To</b>	<b>Type of Service</b>
Metrorail	Dadeland South	Hialeah	Heavy Rail
Tri-Rail	MIA	Palm Beach	Commuter Rail
Busway Flyer (34)	Florida City	Dadeland South	Busway
Busway MAX (38)	Florida City	Dadeland South	Busway
Flagler MAX (51)	SW 137 Ave	Downtown Miami	Limited Stop
Express Bus Route 95 D/B	Downtown Miami	Golden Glades	Express
Express Bus Route 95 EH	Doral	Golden Glades	Express
Express Bus Route 95 CC	Civic Center	Golden Glades	Express
Express Bus Route 95 BB	Downtown Miami	Broward Blvd	Express
Express Bus Route 95 SB	Downtown Miami	Sheridan Blvd	Express
NW 7 Ave MAX (Route 277)	Downtown Miami	Golden Glades	Limited Stop
Beach MAX (Route 120)	Downtown Miami	Aventura	Limited Stop
Airport Flyer (Route 150)	MIA	Miami Beach	Express
Sunset KAT (Route 272)	Kendall	Dadeland North	Limited Stop
Kendall Cruiser (Route 288)	Kendall	Dadeland North	Limited Stop
Killian KAT (Route 204)	Kendall	Dadeland North	Express
Coral Reef MAX (Route 252)	Country Walk	Dadeland South	Limited Stop
Saga Bay MAX (Route 287)	S. Dade Health Ctr	Dadeland South	Limited Stop
27 Ave MAX (Route 97)	NW 207 St	MLK MR	Limited Stop
79 St MAX (Route 79)	Northside MR	Miami Beach	Limited Stop
Biscayne MAX (Route 93)	Aventura Mall	Downtown Miami	Limited Stop

### Exhibit 3 Existing Inventory Park-and-Ride Facilities

Facility/Location	Parking Spaces				Current
	Garage	Lot	Other	Total	Utilization (%) <sup>2</sup>
Tri-Rail (Miami-Dade)					
Golden Glades <sup>1</sup>	0	0	0	0	101%
Opa-Locka	0	72	0	72	106%
Metrorail	0	44	0	44	127%
Hialeah Market	0	123	0	123	63%
Miami Airport/MIC	0	143	0	143	94%
Subtotal	0	382	0	382	N/A
Metrorail					
Dadeland South	1,060	293	63	1,416	86%
Dadeland North	1,975	0	0	1,975	91%
South Miami	1,774	0	0	1,774	54%
University	0	401	0	401	45%
Douglas Road	0	226	0	226	94%
Coconut Grove	0	204	0	204	70%
Vizcaya	0	91	0	91	65%
Brickell	0	0	0	0	N/A
Government Center	0	0	0	0	N/A
Historic Overtown	0	0	0	0	N/A
Culmer	0	0	0	0	N/A
Civic Center	0	0	0	0	N/A
Santa Clara	61	0	0	61	85%
Allapattah	0	66	0	66	20%
Earlington Heights	95	0	0	95	44%
Brownsville	0	100	0	100	4%
MLK	616	0	0	616	45%
Northside	0	282	0	282	73%
Tri-Rail	0	0	0	0	N/A
Hialeah	0	321	0	321	56%
Okeechobee	1031	149	0	1,180	33%
Palmetto	0	710	0	710	50%
Subtotal	6,612	2,843	63	9,518	N/A
Busway					
Busway/SW 152 St	0	126	0	126	81.0%
Busway/SW 168 St	0	149	0	149	105.4%
Busway/SW 112 Av	0	450	0	450	19.6%
Busway/SW 244 St	0	95	0	95	73.7%
Busway/SW 296 St	0	139	0	139	24.5%
Sub-Total	0	959	0	959	N/A
Express/Special Metrobus					
SW 152 St/HEFT	0	95	0	95	N/A
Hammocks Town Center (SW 104 St/152 Av)	0	50	0	50	N/A
Golden Glades East & West Lots	0	1,542	0	1,542	N/A
SW 88 St/SW 150 Av	0	109	0		N/A
Sub-Total	0	1,796	0	1,796	N/A
Grand Total	6,612	5,598	63	12,655	N/A

<sup>1</sup>Tri-Rail shares spaces with MDT.<sup>2</sup>Available data, See Appendix I.



## Exhibit 5

### Planned and Programmed Improvements Enhanced Bus and Express Service

Route	From	To
<b>1. "Programmed"</b>		
Airport-Link	MIC	Earlington Heights
Killian KAT (Route 204)	Kendall	Dadeland North
Sunset KAT (Route 272)	Kendall	Dadeland North
Kendall KAT (Route 288)	Kendall	Dadeland North
Flagler Enhanced Bus	Turnpike	Miami Beach
NW 27 Av Enhanced Bus (old 97)	MIC	Broward
SoBe/MIA Connection	MIA	So. Beach
East-West Connection (238)	West Dade	MIC/Downtown
SW 8 St Enhanced Bus	SW 147 Av	MIC
<b>2. Planned (Unfunded)</b>		
US 1	Downtown	Broward
NE 167/163 St/Sunny Isles	Golden Glades	Collins Av
NW 135 St	NW 12 Av	US 1
NW 36 St/Julia Tuttle Cswy	Tri-Rail	Collins Av
W 12 Av (Hialeah)	Metrorail	NW 186 St
SW 107/112 Av	Bird Rd	NW 25 St
Coral Reef Dr	SW 137 Av	Busway
Baylink	Downtown	South Beach
Kendall Corridor	Dadeland North	SW 162 Ave
Northeast Corridor (FEC)	Aventura Mall	Downtown Miami
Douglas Rd Corridor	NA	NA
Rail Extension to Florida City	NA	NA
East-West Corridor	NW 137 Av	Downtown Miami
7th Ave MAX	Golden Glades	Downtown Miami
Beach MAX	Aventura	Downtown Miami
Red Rd MAX	NA	NA
79 St MAX	Northside	Miami Beach
80 St MAX	NA	NA
96 St MAX	NA	NA
Western Express	NA	NA
<b>3. Other Potential Service Improvements</b>		
NE 167 St	Golden Glades	Collins Av
NW 135 St	NW 12 Av	Biscayne Blvd
W 107/112 Av	SW 40 St	NW 25 St
SW 8 St	SW 107 Av	Downtown Miami
Sunset Dr	SW 117 Av	US-1
Kendall Dr	SW 137 Av	US-1
N/S Prem.Bus-Dadeland So.	Golden Glades	Dadeland So.
N/S Prem.Bus-Palmetto Line B	MGD	Broward
N/S Prem.Bus-Palmetto Line A	MGD	MIC
N/S Prem.Bus-Dadeland So.	Golden Glades	Dadeland So.
FEC Shorter Line	Broward	Downtown Miami
137 Ave Enhanced Bus	MIC	Dadeland So.
I-95	Downtown Miami	Broward
<b>4. Previously Recommended</b>		
FEC (69 Ave) Corridor Busway	Dadeland South	MIC
I-75 Transitway	West Broward Co.	SR 826

  = listed in a 5 or 10 yr plan  
(including 2010 TDP)



## 4.0 PLANNED PARK-AND-RIDE LOCATIONS

Exhibit 6 shows 92 planned and programmed park-and-ride locations. This listing was also plotted on a map (Exhibit 7) showing the existing, planned, and programmed park-and-ride facilities' geographic distribution/inter-relationship to planned enhanced bus and express transit service and/or transit hubs. It should be noted that this list was compiled from the numerous documents presented above. Therefore, it is a comprehensive list of proposals that does not exclude locations based on proximity to enhanced bus and express transit service or the timing of such proposals.

The planned park-and-ride facilities have been grouped into five categories as follows:

- “Programmed” - included in a near term or 5 – 10 year plan with high priority and/or expected funding
- Planned - included in a near term or 5 – 10 year plan, priority project, funding not identified
- Previously Identified Need – identified need, priority and funding not identified
- Other Potential Sites – general location identified for early planning purposes, timing, facility size or funding not identified
- Special Studies – recommendations from master plan studies for other facilities, general location identified, timing, facility size or funding not identified

## Exhibit 6

### Planned and Programmed Improvements Park-and-Ride Facilities

Location	Parking Spaces		
	Progrmd	Planned	Needed
<b>1. "Programmed"</b>			
MIC	0	0	0
Earlinton Heights	921	0	0
Douglas Road	50	0	0
Kendall Town Center (Kendall/SW 162 Av)	40	0	0
Miami Gardens Drive/NW 73 Av	124	0	0
South Dade Busway/SW 344 St	261	0	0
Dolphin Sta. /Doral (NW 12 St/107 Av)	189	0	0
SW 127 Av/Kendall Dr (FPL)	181	0	0
<b>2. Planned (Unfunded)</b>			
SW 136 Ct/Sunset Dr (FPL)	0	100	0
SW 127 Av/Killian Dr (FPL)	0	100	0
Kendall Soccer Park (SW 127 Av/80 St)	0	200	0
Tropical Park	0	100	0
SDBW/SW 200 St (Caribbean Blvd TOD)	0	150	0
Dadeland South	0	100	0
NE Passenger Activities Center (163 St Mall)	0	25	0
7th Av Transit Village (NW 62 St)	0	25	150
Kendall/SW 150 Av	0	70	0
Kendall Village Ctr (SW 85 St/124 Av)	0	300	0
Southland Mall	0	100	0
SW 152 St/162 Av (Parkland DRI)	0	200	0
NW 27 Av/215 St (County Line)	0	500	0
MDC North (NW 27 Av/119 St)	0	200	0
Palmetto Bay MMC (SW 97 Av/Hibiscus St)	0	400	0
<b>3. Previously Identified Needs</b>			
Dadeland North	0	0	NA
Kendall South/Zoo Miami	0	0	NA
Bird West (Bird/SW 147 Av)	0	0	NA
El Portal (Biscayne/NE 79 St)	0	0	NA
SDBW/SW 186 St (Quail Roost TOD)	0	200	NA
Collins Av/72 St	0	0	167
NW 57 Av/Miami Gardens Dr	0	0	86
NW 67 Av/NW 188 St	0	0	49
NW 87 Av/NW 186 St	0	0	49
Coral Way/SW 87 Av	0	0	NA
Coral Way/SW 114 Av (Tamiami Park)	0	0	NA
Coral Way/SW 137 Av (Shopping Ctr)	0	0	NA
US 1/SW 216 St (NW quadrant - vacant)	0	0	82
TriRail/MIA	0	0	320
TR Hialeah Market	0	0	75
TR/MR Transfer Sta.	0	0	185
Biscayne Blvd/NE 107 St (NWquad-Kmart Lot)	0	0	NA
Biscayne Blvd/NE 143 St (SE quad-Target)	0	0	NA
Biscayne Blvd/NE 163 St (NE quad-vacant bldg)	0	0	NA
Biscayne Blvd/NE 38 St (NW quad-vacant)	0	0	NA
NW 137 Av/NW 6 St (NW quad - MDC PS)	0	0	NA
SW 99 Ct/Flagler St (SE quad - church)	0	0	NA
SW 107 Av/Flagler St (SW quad-W.Flagler Plaza)	0	0	NA
US-1/SW 264 St (NW quadrant - vacant)	0	0	NA
US-1/SW 280 St (NW quadrant - vacant)	0	0	NA
TR Opa-Locka	0	0	105
Golden Glades	0	0	1385

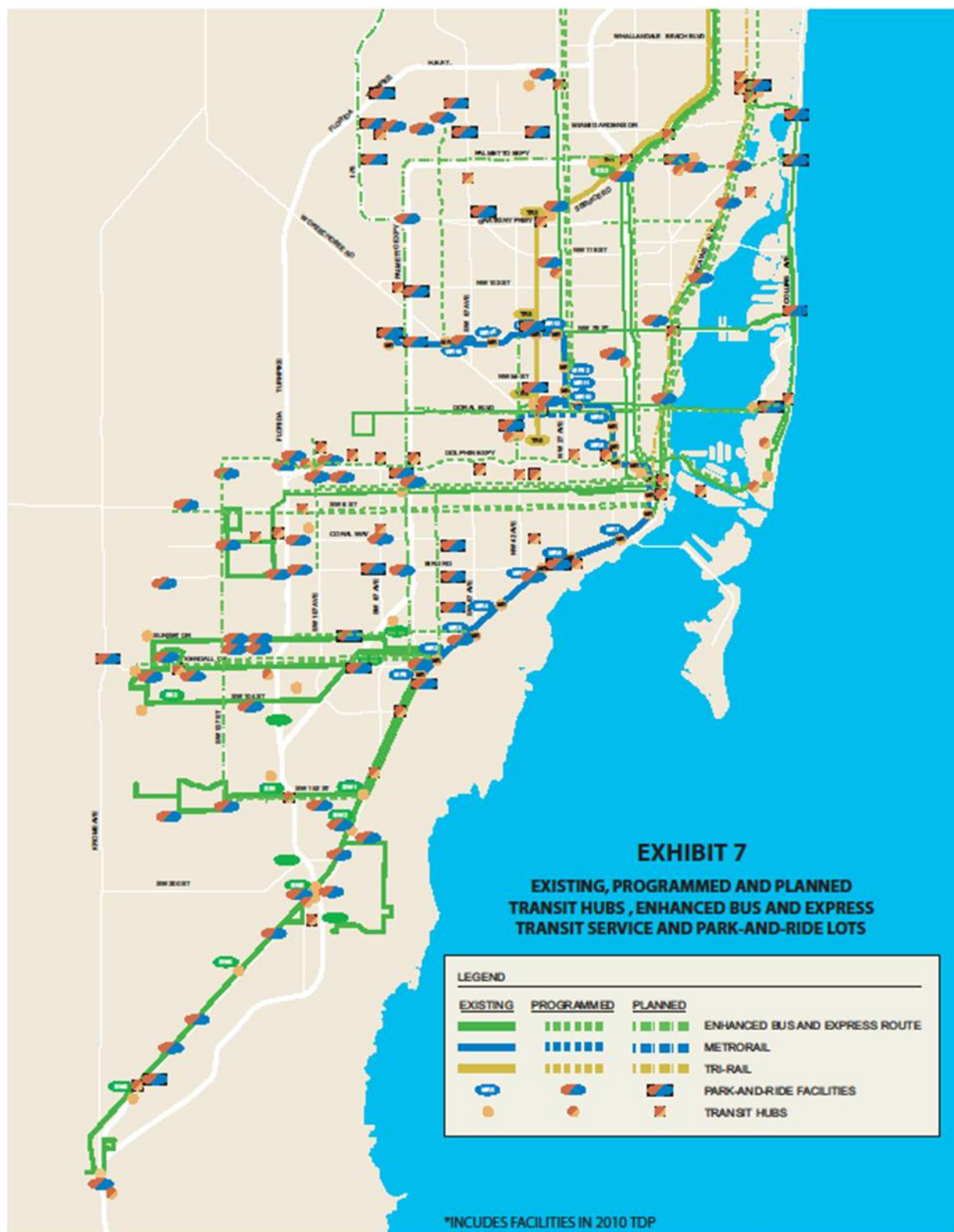
Location
<b>4. Other Potential Sites (Spaces TBD)</b>
NW 67 Av/188 St
NW 87 Av/186 St
SR 826/W. Flagler St (Mall of the Americas)
SW 87 Av/24 St
Bird Rd/SW 114 Av (West Bird Plaza)
Coral Way/SW 137 Av
SW 137 Av/Bird Rd
SW 137 Av/160 St
Telemundo Network
Palmetto Xway/Gratigny (924)
NW 183 St/37 Av
SW 40 St/89 av
SW 88 St/97 Av (SR 874)
SW 72 St/89 Av (SR 874)
I-195/Alton Rd
SR 826/W 49 St
I-75/NW 170 St
US-1/E Dixie/NE 206 St
SR-826/NW 7 St
HEFT/NW 12 St (NW quadrant)
SW 8 St/147 Av (2) (Surplus)
SW 177 Av/88 St
HEFT/NW 202 St
SR-826/N Bay Rd (Sunny Isles)
A-1-A/NE 189 St
SR-826/HEFT (Golden Glades)
K-Mart (NE 163 St)
163 St Mall
8445 NW Miami Gardens Dr
14350 NW 56 Ct (Opa-Locka Airport)
Palmetto MR
NW 79 Av/74 St
11401 NW 12 St (Dolphin Mall)
SW 40 St/119 Ct
Boys/Girls Club (9475 Kendall Dr)
FIU South (SW 107 Av/8 St)
International Mall (NW 107 Av/14 St)
SDBW/SW 296 St
<b>5. Special Studies</b>
FEC (69 Ave) Busway/Miller Rd
FEC (69 Ave) Busway/Bird Rd
FEC (69 Ave) Busway/Coral Way
I 75/Miami Gardens Dr

listed in a 5 or 10 yr plan

listed in a 5-10 yr plan for an enhanced bus and express transit corridor  
(including 2010 TDP)

surplus property





## **5.0 SCREENING/ANALYSIS**

Following the compilation of a list of Park-and-Ride facilities proposed by various agencies, the proposals were subjected to a screening analysis. The screening was intended to identify which proposals were good candidates based on the study objectives and criteria described above. The screening steps are explained below.

### **5.1 Timing**

The future planning period was limited to ten years as it relates to implementation of new or enhanced bus and express transit service and/or park-and-ride facilities or transit hubs. In general, the following documents were interpreted as an indication of short/mid range (10 year) timing:

- MDT Transit Development Plan - TDP (2010 – 2019) (note: MDT also provided a list of planned park-and-ride facilities updated based on current plans) (Appendix D)
- 2035 Long Range Transportation Plan – LRTP - Priority I and II (2010 – 2020) (Appendix E)
- 2011 Transportation Improvement Program – TIP (2011 - 2015) (Appendix F)
- Near Term Transit Plan (2012 – 2015) (Appendix G)

Park-and-ride facilities reflected in those documents were highlighted in the master list using the color yellow or green. In this report, this subset of locations is referred to as “programmed”.

### **5.2 Proximity to Existing or Planned Enhanced Bus and Express Transit Service**

“Programmed” enhanced bus and express transit service planned with 10 years was identified (and highlighted in green in Exhibit 6) using the same four documents shown above. This distinction is very critical when identifying proposed park-and-ride locations. Certainly enhanced bus and express service should be supported by park-and-ride facilities as these lines represent a concerted effort to attract choice riders. These are high priority or high ridership corridors that

warrant the most convenient user access if they are to continue to be successful and/or attract new transit riders.

Another reason to consider the 10 year planning timeframe relates to the certainty of the proposed service or facility as well as the certainty of the route alignment and/or stop/station locations. This degree of certainty facilitates the commitment of funding for capital expenditures such as the purchase of land for park-and-ride facilities. Therefore, expansion of existing park-and-ride facilities along exclusive rights-of-way (eg. Metrorail, Tri-Rail, South Dade Busway), are relatively easy to justify given the existing/anticipated demand is known. The same rationale applies to well established terminals along major corridors.

### **5.3 Specific Sites**

The master list of planned park-and-ride locations, compiled from various sources, included a number of existing park-and-ride facilities which could be expanded right at the site either within the same property or at a specific adjacent site. Some suggested locations identified a specific corner (or quadrant) of an intersection, others just the general location as an intersection. The development of this plan requires identification of specific parcels. At this point in the screening, these proposed locations have already been confirmed as planned within 10 years and located along enhanced bus and express service corridors existing or planned within 10 years. Nonetheless, existing land uses at the proposed sites, accessibility, size, cost, etc. must be considered when selecting a viable park-and-ride site.

In some cases, a leasing/shared parking agreement may be the most appropriate implementation mechanism. A land use lease agreement (land only) allows the transit agency to “test” the park-and-ride location more economically than by outright purchase. With these criteria in hand, specific sites were identified where needed, and an implementation mechanism (lease or purchase) was also suggested.

## 5.4 Implementation Mechanisms

During the assembly of proposed/potential park-and-ride locations it became clear that there are many ways to create park-and-ride facilities with varying degrees of implementation ease and costs. Five major implementation mechanism categories were identified, from easier to most difficult, as follows:

- Independent/Shared Funding – These projects are undertaken by the private sector or a non-transportation agency but benefit the transit operator due to the inclusion of facilities for the exclusive use of the transit agency. Cost to the transit agency can vary from zero or minimal to a relatively small share of the total cost of the project. These projects take several forms such as: a) park-and-ride facility fully committed and funded by a developer as part of their approval development order; b) Transit Oriented Development (TOD) project undertaken by a developer or a government agency; c) Multi-Modal Transportation Center sponsored by one or more agencies and implemented with funding from various sources. The main advantages of this mechanism are the low cost to the transit agency that implementation is lead by others.
- Shared Parking/Lease Agreement – The transit agency can enter into an agreement with a business or an institution with excess weekday parking in order to lease to (or share the spaces with) the transit operator. Although there may be a leasing cost associated with this strategy, the agency can avoid the capital cost of land purchase and construction cost. Also, leasing may be an effective way to gauge and establish demand before a more permanent site is pursued.
- Expansion of Existing Facilities – In many cases, an existing park-and-ride facility is already in operation at or close to capacity or its use is expected to surge as a result of significant transit (enhanced bus and express transit) service improvements. The presence of existing parking confirms established demand and facilitates needed approvals, however, there can be costs associated with the expansion. Expansions can take two forms: a) construction of new spaces on lands already owned by a transportation agency or; b) reclaiming parking spaces that have been leased out to other unrelated entities

because they had been previously considered surplus spaces (here there is no capital cost but there is a potential for lower net revenue to the operating agency). The main advantage of this technique is a short implementation timeframes because the transit agency already owns the needed property.

- Public/Quasi-Public Lands – Use of public or quasi-public (utilities, parks, transportation, etc.) lands may be somewhat advantageous to the transit operator. Generally speaking, leasing costs may vary from nominal to below market as these lands, typically, have a very limited market due to location and/or restrictions. Another benefit is the opportunity to work on a cooperative (not adversarial or profit based) fashion, which can facilitate and expedite these agreements when compared to a land purchase from a private entity. In general terms, lease agreements are easier to arrange than purchases. However, in certain cases, options to buy in the future can also be explored after actual demand is established and a financial analysis of the costs is completed. Regardless, of the arrangements for use of the land, capital expenditure to cover the construction cost of the parking spaces is usually required.
- Land Acquisition – Creation of a new park-and-ride facility through land acquisition is usually the most costly option. Here the agency must fund both the land purchase and the construction cost of the parking spaces and amenities. Nevertheless, given enough demand, this implementation mechanism may be necessary to provide an appropriate level of service for users and/or further facilitate or encourage transit use on selected enhanced bus and express transit service corridors.

A summary of the advantages of each mechanism is presented in Exhibit 8. The recommended facilities plan presented in the next section groups the proposed park-and-ride sites by corridor and suggests a specific implementation mechanism. These recommendations should be reassessed prior to implementation at each location to ensure they continue to be the most effective mechanism at the time.

## Exhibit 8

### Implementation Mechanisms Comparison Matrix of Advantages

Mechanism	Description	Land Cost	Construction Cost	Lease Cost	Implementation Time	Demand Test Period
1. Independent/Shared Funding						
- Independent Funding	Park-and Ride facilities built by non-transit organizations	None	None	None	By others	No
- Shared Funding	Park-and Ride facilities built by non-transit organizations w. shared funding from transit	Shared	Shared	None	By others	No
2. Shared Parking/Lease Agreement						
- Shared Parking Agreement	Transit agency agreement to share parking w. existing business that has excess parking spaces	None	None	None	Short	Yes
- Lease Agreement	Transit agency agreement to lease parking from existing business that has excess parking spaces	None	None	Yes	Short	Yes
3. Expansion/Manag.Exist.Facilities						
- Expansion of Existing Facilities	Adding parking spaces to existing park-and-ride facility using available transit agency lands	None	Yes	None	Short	Existing
- Management of Existing Facilities	Manage existing park-and-ride facility to increase capacity (e.g. recapture spaces leased to others)	None	None	Revenue loss	Short	Yes
4. Public/Quasi-Public Lands						
- Public Lands	Construct park-and ride facility on public lands	Low	Yes	Optional	Medium	Optional
- Quasi-Public Lands	Construct park-and ride facility on quasi-public lands (e.g. utilities)	Medium	Yes	Optional	Medium	Optional
5. Land Acquisition/Construction	Construct park-and ride facility on privately owned lands	High	Yes	Optional	Long	No



## **6.0 PARK-AND-RIDE FACILITIES PLAN**

The objective of this study was to examine planned and potential park-and-ride facilities that can be used to support enhanced bus and express transit lines. The study develops a plan for early procurement (purchase and/or leasing) of available suitable properties to enhance ridership patterns in planned priority transit corridors. This section presents the evaluation of individual sites and the resulting recommended plan.

### **6.1 Evaluation Factors**

A number of factors affecting the viability and success of specific sites were identified. These included:

- Existing or expected route ridership (Appendix H)
- Existing or expected parking demand (Appendix I)
- Site accessibility for transit vehicles
- Site accessibility for park-and-ride patrons
- Potential implementation mechanism
- Location permitting ease
- Land cost
- Construction cost (Appendix J)

This information, when available, is presented in the report Appendix K.

### **6.2 Locations Assessment**

A numerical evaluation of the sites was considered, but that approach was rejected in favor of a corridor by corridor assessment due to the number and complexity of the evaluation factors and other issues (such as the variety of available implementation mechanisms). This assessment took into consideration the above factors (Appendix K) but placed greater emphasis on the market area (as well as density) of each location including the proximity to other existing and/or proposed park-and-ride locations. In other words, the proximity of proposed facilities was taken into account to ensure that each recommended park-and-ride location had its own “market area”

and was not competing with other existing or proposed park-and-ride location along the same corridors. At the same time, the corridor by corridor analysis removed competition between the various corridors and gave each corridor an opportunity to have park-and-ride facilities included in the plan.

### **6.3 Proposed Plan**

The resulting Consolidated Park-and-Ride Facilities Plan is shown below in both tabular (Exhibit 9) and map (Exhibit 10) forms. The map portrays the geographic coverage within the subject corridors and the interrelationship of the recommended locations as well as the recommended timing. The list groups the locations by priority, and includes the corridor and the recommended implementation mechanism. All 39 sites are located along existing or proposed high priority corridors for enhanced bus and express transit service.

The breakdown sequences are as follows:

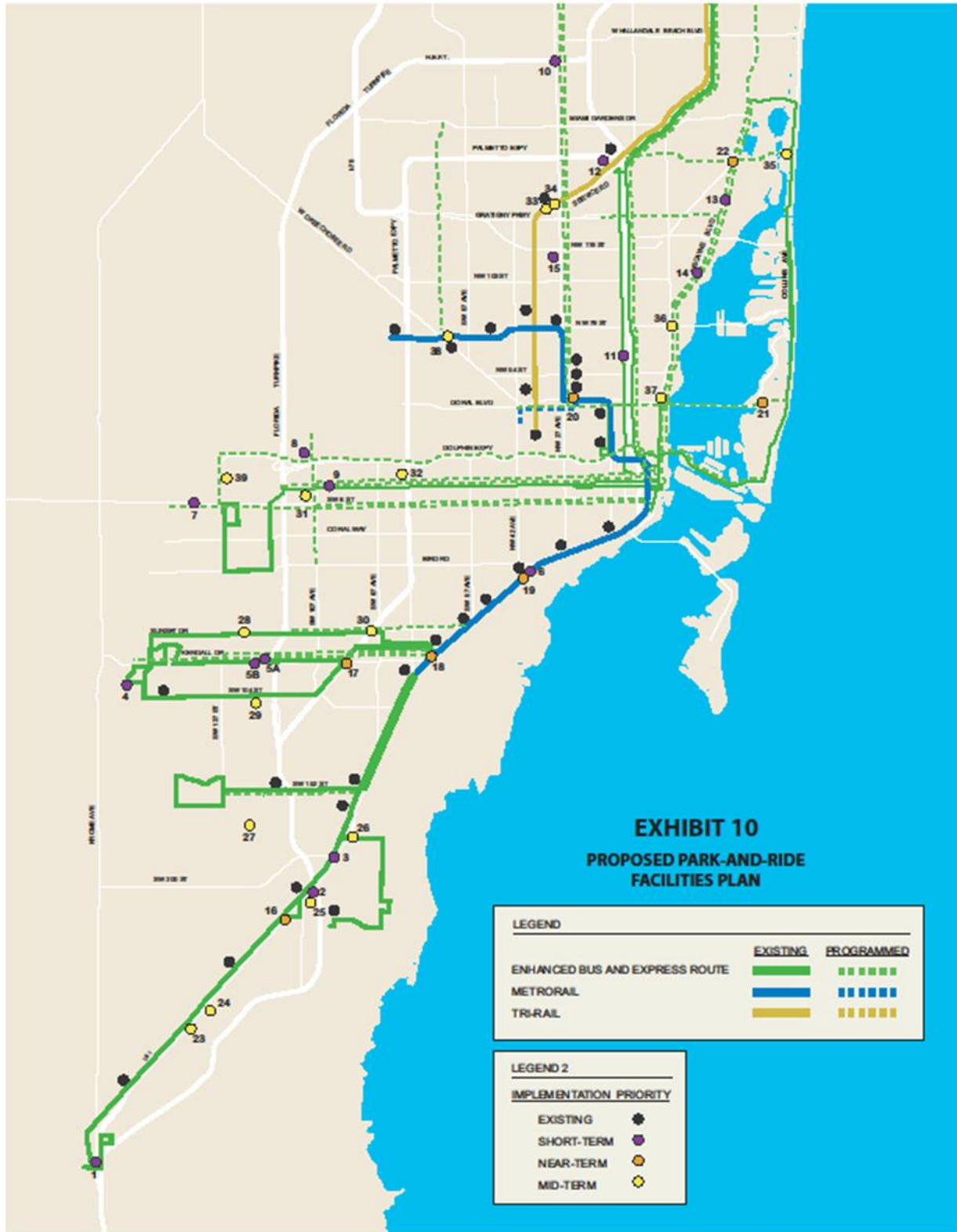
- Short-Term: 2010 – 2015      (15 locations)
- Near-Term: 2015 – 2020      (7 locations)
- Mid-Term: after 2020          (17 locations)

These suggested time frames are for undertaking the project development phase of each facility. These have considered a logical implementation sequence within each of the corridors.

## Exhibit 9

### Proposed Park-and-Ride Facilities Plan

Park and Ride Site	Corridor	Implementation Mechanism
<b>Short-Term</b>		
1 - SDBW/SW 344 St (NW corner)	South Dade Busway	Land Acquisition/Construction
2 - SDBW/SW 200 St (Caribbean Blvd TOD)	South Dade Busway	Independent/Shared Funding
3 - SDBW/SW 186 St (Quail Roost TOD, 184-186)	South Dade Busway	Independent/Shared Funding
4 - Kendall Town Center (Kendall/SW 162 Av)	Kendall	Independent/Shared Funding
5a - Kendall Village Ctr (SW 85 St/124 Av) interim	Kendall	Shared Use/Lease
5b - SW 127 Av/Kendall Dr (FPL, SE corner)	Kendall	Public/Quasi-Public Land
6 - Douglas Road (under guideway)	Metrorail	Expansion/Management
7 - SW 8 St/147 Av (FDOT surplus)	East/West (SR 836, Flagler)	Public/Quasi-Public Land
8 - Dolphin Sta. /Doral (NW 12 St/107 Av)	East/West (SR 836)	Independent/Shared Funding
9 - SW 99 Ct/Flagler St (SE quad - church)	East/West (Flagler)	Shared Use/Lease
10 - NW 27 Av/215 St (County Line TOD)	North (NW 27 Ave)	Independent/Shared Funding
11 - 7th Av Transit Village (NW 62 St)	NW 7 Ave	Independent/Shared Funding
12 - Golden Glades	I-95	Expansion/Management
13 - Biscayne Blvd/NE 143 St (SE quad-Target)	Northeast (Biscayne Blvd)	Shared Use/Lease
14 - Biscayne Blvd/NE 107 St (NW quad-Kmart Lot)	Northeast (Biscayne Blvd)	Shared Use/Lease
15 - MDC North (NW 27 Av/119 St)	North (NW 27 Ave)	Land Acquisition/Construction
<b>Near-Term</b>		
16 - SDBW/SW 216 St (SE quadrant)	South Dade Busway	Land Acquisition/Construction
17 - SW 88 St/97 Av (SR 874, MDX surplus)	Kendall	Public/Quasi-Public Land
18 - Dadeland North (FEC)	Metrorail	Public/Quasi-Public Land
19 - Douglas TOD	Metrorail	Independent/Shared Funding
20 - Earlington Heights	Metrorail	Expansion/Management
21 - I-195/Alton Rd (FDOT surplus)	Airport Flyer (SR 112/I-195)	Public/Quasi-Public Land
22 - Biscayne Blvd/NE 163 St (NE quad)	Northeast (Biscayne Blvd)	Shared Use/Lease
<b>Mid-Term</b>		
23 - US-1/SW 280 St (NW quadrant - vacant)	South Dade Busway	Land Acquisition/Construction
24 - US-1/SW 264 St (NW quadrant)	South Dade Busway	Shared Use/Lease
25 - Southland Mall	South Dade Busway	Shared Use/Lease
26 - Palmetto Bay MMC (SW 97 Av/Hibiscus St)	South Dade Busway	Independent/Shared Funding
27 - Kendall South/Zoo Miami	Coral Reef	Shared Use/Lease
28 - SW 136 Ct/Sunset Dr (FPL, south side)	Kendall	Public/Quasi-Public Land
29 - SW 127 Av/Killian Dr (FPL, south side)	Kendall	Public/Quasi-Public Land
30 - SW 72 St/89 Av (SR 874, MDX surplus)	Kendall	Public/Quasi-Public Land
31 - SW 107 Av/Flagler St (SW quad-W.Flagler Plaza)	East/West (Flagler)	Shared Use/Lease
32 - SR 826/W. Flagler St (Mall of the Americas)	East/West (Flagler)	Shared Use/Lease
33 - TR Opa-Locka (museum)	Tri-Rail	Shared Use/Lease
34 - TR Opa-Locka (NE of museum)	Tri-Rail	Land Acquisition/Construction
35 - SR-826 e/o AIA (Sunny Isles, FDOT surplus)	A1A/Beach	Public/Quasi-Public Land
36 - El Portal (Biscayne/NE 79 St, NE corner)	Northeast (Biscayne Blvd)	Shared Use/Lease
37 - Biscayne Blvd/NE 38 St (NW quad-vacant)	Northeast (Biscayne Blvd)	Land Acquisition/Construction
38 - Okeechobee (terminate "license" to Telememundo)	Metrorail	Expansion/Management
39 - NW 137 Av/NW 6 St (MDX surplus)	East/West (SR 836)	Public/Quasi-Public Land



## 7.0 CONCLUSION

Existing, proposed, and planned enhanced bus and express transit service lines and park-and-ride facilities were inventoried and evaluated. The evaluation resulted in a plan for early procurement (purchase and/or leasing) of available suitable properties to enhance ridership patterns in planned priority transit corridors. The recommended Consolidated Park-and-Ride Facilities Plan described in this report portrays the geographic coverage/interrelationship of the recommended park-and-ride locations as well as the recommended priority and implementation mechanism. All sites are located along existing or proposed high priority corridors for enhanced bus and express transit service. While the emphasis of implementation should be in the short-term and near-term priority locations (5 years or less), mid-term priority locations may be advanced as needed based on available funding and/or increased need. This group also represents alternate locations in case other recommended locations along the same corridor cannot be secured. Therefore, continued monitoring and re-evaluation of the proposed locations should be undertaken, particularly as the implementation windows near. Re-evaluation may also be needed if currently planned priority /express transit corridors change in timing and/or implementation feasibility.



# **APPENDIX A**

## **TPTAC Sign-In Sheets**







# TRANSPORTATION PLANNING TECHNICAL ADVISORY COMMITTEE (TPTAC)

WEDNESDAY, July 7, 2010 AT 10:00 A.M.

ROOM 9-3

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Zaniab Salim	MPO Board Clerk	Zsalim@miamidade.gov 305 375-4507

## TRANSPORTATION PLANNING TECHNICAL ADVISORY COMMITTEE (TPTAC)

**WEDNESDAY, October 6, 2010 AT 10:00 A.M.**

## ROOM 9-3

[illegible]

# **APPENDIX B**

## **Existing Transit Hubs**



## Appendix B

### Existing/Committed Inventory

### Transit Hubs

<u>Name</u>	<u>Location</u>
Flagler Marketplace	Flagler St/SW 1 Ave (SE corner)
Dadeland Stations	Dadeland MR Stations
Miami Beach-Lincoln/Washington	Lincoln Rd/Washington Ave
West Kendall	Kendall Dr/SW 162 Av
Northeast	163 St Mall
Miami Intermodal Center (MIC)	Across from MIA
West Dade	NW 12 St/107 Av
Palmetto MR	NW 74 St w/o SR 826
Okeechobee MR	Okeechobee Rd/NW 74 St
Hialeah MR	W 21 St/Palm Ave
Tri-Rail MR	NW 79 St/37 Ave
Northside MR	NW 79 St/32 Ave
MLK MR	NW 27 Ave/62 St
Brownsville MR	NW 27 Ave/54 St
Earlington Heights MR	NW 22 Ave/SR 112
Allapattah MR	NW 12 Ave/36 St
Santa Clara MR	NW 12 Ave/20 St
Civic Center MR	NW 12 Ave/16 St
Culmer MR	NW 11 St/7 Ave
Overtown MR	NW 1 Ave/8 St
Government Center MR	NW 1 Ave/1 St
Brickell MR	SW 1 Ave/10 St
Vizcaya MR	US 1/SW 32 Rd
Coconut Grove MR	US 1/SW 27 Ave
Douglas Rd MR	US 1/SW 37 Ave
University MR	US 1/S Alhambra
South Miami MR	US 1/Sunset Dr
Dadeland North MR	US 1/SW 70 Ave
Dadeland South MR	Dadeland Blvd
SW 152 St BW	US1/SW 152 St (SW corner)
SW 168 St BW	US1/SW 168 St (NW corner)
SW 200 St BW	US1/SW 200 St (NW corner)
SW 244 St BW	US1/SW 244 St (SW corner)
SW 296 St BW	US1/SW 296 St (NE corner)
SW 344 St BW	US1/SW 344 St
Golden Glades	I 95/SR 826
Aventura	Aventura Mall/NE 29 Pl
Coral Reef	Coral Reef/HEFT
FIU Tamiami Campus	SW 107 Ave/108 St
Hialeah Market TR	Tri-Rail
Miami Airport/MIC	Tri-Rail
Mall of The Americas	SR 826/Flagler St
MDC South	Killian Pkwy/SW 112 Av
Mount Sinai	I-195/Alton Rd
Opa-Locka TR	Tri-Rail
Southland Mall	US-1/Caribbean Blvd
County Line/NW 27 Av	County Line/NW 27 Av
Sunset Dr/SW 157 Av	Sunset Dr/SW 157 Av
Killian Pkwy/SW 157 Av	Killian Pkwy/SW 157 Av
SR 874/Sunset Dr	SR 874/Sunset Dr
South Beach	Washington Ave/Lincoln Rd



# **APPENDIX C**

## **Planned Transit Hubs**





## Appendix C Planned Facilities Transit Hubs

<u>1. Planned</u> SD BW SW 296 St BW Port of Miami West Dade West Kendall MIC Kendall Dr/HEFT SDBW/SW 200 St Earlington Hgts MIC Bus Plaza	<u>3. Recommended</u> W Flagler St/42 Av Florida City 5th St/Alton Rd Opa-Locka Mentrail Blue Lagoon Metrorail FIU - Tamiami Campus FIU - Biscayne Bay Campus W Flagler St/37 Av Miracle Mile S. Dade Gov. Center/US 1 Palmetto Xway/NW 103 St Ives Dairy Rd west of US 1 US 1 north of SW 144 St US 1/NE 4 Dr SW 112 St/US 1 Kendall Dr/SW 157 Av US 1/NE 206 St SW 26 St/122 Av Miami Beach Intermod. Ctr.
<u>2. Proposed</u> Opa-Locka MR 166 St MR 183 St MR 199 St MR Blue Lagoon MR Palmetto/EW MR 87 Av MR 97 Av MR FIU/Tamiami Campus MR 27 Av MR Orange Bowl MR Design District 125 ST FIU North Campus Northeast PAC Aventura Flagler (79 Av) SW 8 St Miracle Mile	<u>4. Potential</u> Coconut Grove(McFarlane Rd) Collins Av/44 St Collins Av/72 St Flagler St/42 Av Florida City/Palm Dr/FEC MGD Golf Club Miami Lakes Tech Ed Center Mouth of Miami River NE 125 St/Dixie Hwy/6 Av NE 79 St/US-1 NW 183 St/7 Av NW 207 St/27 Av MGD/NW 87 Av So. Beach Coral Reef/SW 117 Av Westchester Shopping Center Government Center FIU Tamiami Campus Golden Glades Miami International Mall US1/163 St
<u>3. Recommended</u> NW 7 Av/62St Northeast PAC Homestead Miami Dade College North Miami Dade College South NW 7 Av/183 St Southland Mall Miami Beach Convention Ctr US-1/Aventura Mall US-1/NE 79 St	



# **APPENDIX D**

## **MDT Transit Development Plan – TDP (2010 – 2019) and Updated List of Planned Park-and-Ride Facilities**



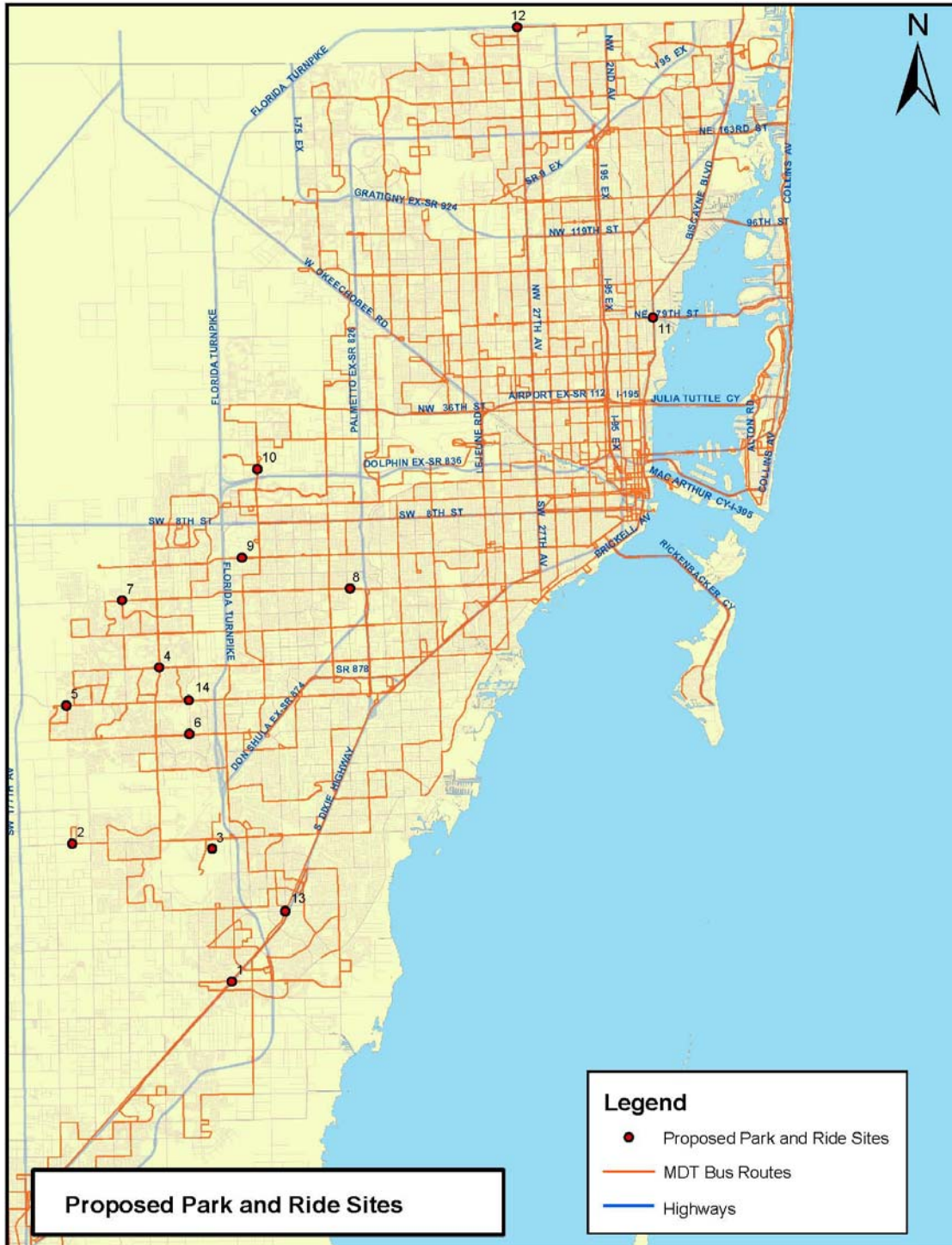
South Miami-Dade Busway. This effort will also address current needs, particularly Park and Rides in current areas of heavy transit utilization. The following areas are identified as potential Park and Ride locations (Table 3-7):

**Table 3-7: Proposed Park and Ride Lots**

Map ID	NAME	LOCATION
1	Busway Lot	Busway and SW 216th Street
2	Kendall South Park and Ride	SW 152nd Street and SW 162nd Avenue
3	Kendall South/Metrozoo	Miami Metrozoo Park
4	FPL Lot	SW 72nd Street and SW 136th Court
5	West Kendall Park and Ride	Kendall Drive and SW 162nd Avenue
6	FPL Lot	SW 104th Street and SW 127th Avenue
7	Bird West Park and Ride	Bird Road and SW 147th Avenue
8	Bird Central Park and Ride	Tropical Park
9	West Miami-Dade/Tamiami area	Tamiami Park
10	Doral Park and Ride	NW 107th Avenue and NW 12th Street
11	El Portal Park and Ride	Biscayne Boulevard and NE 79th Street
12	County Line Park and Ride	NW 27th Avenue and NW 215th Street
13	Busway / SW 186th Street (Quail Roost TOD)	
14	SW 127th Avenue/ SW 88th Street (Kendall Drive) (FPL ROW)	

Specific sites for these proposed facilities have not yet been identified. Ideally, actual locations could be sited within a two-mile radius from the location identified above. However, in some cases, the actual sites could be more than two (2) miles from the above mentioned locations depending on the availability of land. MDT is continuing to work to identify specific Park and Ride locations and acquire properties (purchase or lease) during the upcoming years. The following proposed park and ride lots are illustrated in Figure 3-7.

**Figure 3-7: Proposed Park and Ride Lot Sites**



Source: Miami-Dade Transit, 2009

### Florida Department of Transportation Park and Ride Program

Miami-Dade Transit, FDOT and the Miami-Dade Metropolitan Planning Organization (MPO) collaborated to develop a comprehensive Park and Ride Lot Plan and include a methodology for prioritizing Park and Ride Program locations throughout the county. The criterion for selecting locations is presented in Table 3-8.

**Table 3-8: Park and Ride Selection Criteria**

Location Considerations	Site considerations	Economic Considerations
Site is within a high traffic corridor	Adverse impact on surrounding area	Land cost
Premium transit service potential	Site expansion potential	Ease of land acquisition
Outside major bottleneck	Parking capacity on adjacent streets	Development cost
Visibility of site	Security	
Access to the facility		
Other Park and Ride competition		
Commuter driving distance to lot		
Bike route access		

Source: Park and Ride Lot Plan, 2007

Based on these factors, 22 locations (three in Monroe County) were tentatively chosen as candidates for Park and Ride sites (Table 3-9). It should be noted that these locations are general geographical boundaries and actual locations will not be restricted to these exact locations.

**Table 3-9: Park and Ride Locations for Consideration**

Location	Current Use
Biscayne Boulevard & NE 107th Street (NW quadrant)	K Mart lot
Biscayne Boulevard & NE 143rd Street (NE quadrant)	Target lot
Biscayne Boulevard & NE 163rd Street (NE quadrant)	Vacant building
Biscayne Boulevard & NE 38th Street ( NW quadrant)	Vacant
Collins Avenue & 72nd Street (NW quadrant)	City lot
NW 67th Avenue & NW 188th Street (NE quadrant)	Parking lot
NW 87th Avenue & NW 186th Street (NE quadrant)	Strip Mall
NW 137th Avenue & NW 6th Street (NW quadrant)	MDC Public School
SR 826 & West Flagler Street (NW quadrant)	Mall of the Americas lot
SW 40th Street & SW 82nd Avenue (SE quadrant)	Tropical Park
SW 87th Avenue & SW 24th Street (SE quadrant)	K-Mart lot
SW 99th Court & West Flagler Street (SE quadrant)	Church lot
SW 107th Avenue & West Flagler Street (SW quadrant)	West Flagler Plaza

SW 114th Avenue & SW 24th Street (NW quadrant)	Tamiami Park
SW 114th Avenue & SW 40th Street (NW quadrant)	West Bird Plaza
SW 137th Avenue & SW 26th Street (NW quadrant)	Shopping Center
SW 137th Avenue & SW 42nd Street (NE quadrant)	Power line easement
SW 137th Avenue & SW 160th Street (SW quadrant)	Power line easement
US-1 & SW 216th Street (NW quadrant)	Vacant
US-1 & SW 264th Street (NW quadrant)	Vacant
US-1 & SW 280th Street (NW quadrant)	Vacant
(3 Monroe County Locations)	to be determined

### South Miami Dade Busway

Since 1997, MDT has operated and maintained a 20-mile exclusive Busway paralleling US-1 from the Dadeland South Metrorail Station to SW 344th Street in Florida City. The Busway includes 29 stations with five (5) Park and Ride facilities. The first segment of the extension to Florida City opened to revenue service on April 25, 2005 and extended the Busway five miles from SW 112th Avenue to SW 264th Street in Naranja. The second and final segment of the extension, which opened on December 16, 2007, extends the Busway another 6.5 miles south from SW 264th Street to SW 344th Street in Florida City, Miami-Dade County's southernmost municipality.

Full-size buses, minibuses and over-the-road motor coaches operate on the Busway and in adjacent neighborhoods, entering the exclusive lanes at major intersections, providing both local and limited-stop service. Free parking is provided adjacent to the Palmetto Golf Course on SW 152nd Street (Coral Reef Drive), at SW 168th Street, at SW 200th Street, at SW 244th Street and SW 296th Street. Plans are in the works for a future Park and Ride lot at SW 344th Street, the furthest south station. An additional Park and Ride lot is provided at the Florida Turnpike exit on Coral Reef Drive (SW 152nd Street) and SW 117th Avenue.

### 3.2.3 Miami-Dade Transit's Special Programs

Section 427 Florida Statutes and Rule 41-2 establishes and mandates the creation of the Commission for the Transportation Disadvantaged in the State of Florida. A Community Transportation Coordinator (CTC) in each county is appointed and responsible for the coordination and provision of cost-efficient transportation services, and the elimination of duplication through a coordinated system. In Miami-Dade County, the County government is the local coordinator, and MDT is charged with the responsibility of creating programs, applying for the grants, and coordinating the transportation for the disadvantaged.

To support this effort, a \$1.50 is added to the cost of all vehicular license tags sold in the State, plus a \$1.00 voluntary donation for vehicle tag renewals, in addition to revenue from parking tickets for illegally parking in handicapped designated spaces. These funds are placed in the Transportation Disadvantaged Trust Fund (TDTF) and administered by the Commission for the Transportation Disadvantaged (CTD). Miami-Dade County received \$7.2 million dollars in FY 2008 from the TDTF.



**Table 9-2: Proposed Parking Lots/Park and Ride/Garages under Negotiation**

<b>Park and Ride</b>	<b>Location</b>	<b>Number of Spaces</b>
Dolphin Station	NW 12th Street/ NW 107th Avenue	260
Northeast Passenger Activities Center	NE 15th Avenue/ NW 165th Street	25
Douglas Road Station	Under Guideway	50
Kendall Town Center	Kendall Drive/SW 162nd Avenue	45
Quail Roost	SW 186th Street/Busway	200
Busway/ SW 216th Street		150
SW 127th Avenue/ SW 104th Street (Killian Drive)		100
SW 127th Avenue/ SW 80th Street (Soccer Park)		200
SW 136th Court/ SW 72nd Street (Sunset Drive)		100

Source: FY 2010-2014 Transportation Improvement Program

#### **9.4.4 Transit Operating System Replacement Project**

Miami-Dade Transit will be replacing the existing Transit Operating System (TOS) platform to bring the existing antiquated system in line with state-of-the art technology. The total estimated cost is \$5.8 million and is anticipated to be implemented by FY 2012.

### **9.5 2008 TDP Operational Service Commitments**

Prior to presenting the committed bus service improvements it is necessary to first assess the commitments that were developed as part of the 2008 TDP update as submitted.

#### **9.5.1 Assessment of Implemented Bus Service Improvements and Adjustments (2008)**

For the 2008 MDT TDP a listing of committed bus service improvements for implementation were included. A consistency analysis of these improvements was performed for the TDP Major Update to measure MDT's adherence for implementation.

From January to December 2008, a total of 104 service changes were implemented by MDT which includes 50 additional changes from what was programmed to occur as stated in the 2008 MDT TDP. The 2008 TDP had programmed 55 committed bus service improvements and adjustments, and 54 were accomplished. This results in a

**MIAMI-DADE TRANSIT**  
**CURRENT AND FUTURE TRANSIT FACILITIES**

<b>Metrorail Stations ( 22 )</b>	<b>Spaces</b>	<b>Future New Spaces &amp; Anticipated Opening Date</b>	<b>Commission District</b>
Dadeland South	1,416	N/A	7
Dadeland North	1,975	N/A	7
South Miami	1,774	N/A	7
University	401	N/A	7
Douglas Road (under guideway)*	226	50 - TBD	7
Coconut Grove	204	N/A	7
Vizcaya	91	N/A	5
Brickell	N/A	N/A	5
Government Center	N/A	N/A	5
Historic Overtown/Lyric Theatre	N/A	N/A	5
Culmer	N/A	N/A	3
Civic Center	N/A	N/A	3
Santa Clara	61	N/A	3
Allapattah	66	N/A	3
Earlington Heights	95	921 - (1,016 total spaces in garage, GSA usage of remaining spaces under MOU agreement)	3
Brownsville	400	N/A	3
Dr. Martin Luther King, Jr. "Plaza"	616	N/A	2
Northside	282	N/A	2
Tri-Rail	39	N/A	6
Hialeah	321	N/A	6
Okeechobee	1180	N/A	13
Palmetto	710	N/A	12
<b>Sub-Total</b>	<b>9,857</b>		
<b>Metrobus Park &amp; Ride Lots / Hubs / Terminals ( 17 )</b>	<b>Spaces</b>	<b>Future New Spaces &amp; Anticipated Opening Date</b>	<b>Commission District</b>
Busway / S.W. 152nd Street	126	N/A	8
Busway / S.W. 168th Street	149	N/A	9
Busway / S.W. 112th Avenue	450	N/A	9
Busway / S.W. 244th Street	95	N/A	8
Busway / S.W. 296th Street	139	N/A	8
S.W. 152nd Street / S.W. 117th Avenue (FLA Turnpike at Coral Reef Drive)	95	N/A	9
Hammocks Town Center (S.W. 104th Street / S.W. 152nd Avenue)	50	N/A	11
Golden Glades East & West Lots	1,542	N/A	1
Omni Terminal (Biscayne Boulevard / NE 15th Street)	N/A - Hub	N/A - Hub	5
CBD Bus Terminal	N/A - Hub	N/A - Hub	5
FIU - University Campus (SW 107th Avenue / SW 16th Street)	N/A - Hub	N/A - Hub	11
Lincoln Road / Washington Avenue	N/A - Hub	N/A - Hub	5
163rd Street Mall (to be replaced by NE Passenger Activities Center)	N/A - Hub	N/A - Hub	4
Aventura Mall	N/A - Hub	N/A - Hub	4
Dolphin Mall	N/A - Hub	N/A - Hub	12
MDC - North Campus	N/A - Hub	N/A - Hub	2
MDC - Kendall Campus	N/A - Hub	N/A - Hub	8
<b>Sub-Total</b>	<b>2,646</b>		
<b>Metrobus Park &amp; Ride Lots / Hubs / Terminals under Development or Negotiations ( 10 )</b>	<b>Spaces</b>	<b>Future New Spaces &amp; Anticipated Opening Date</b>	<b>Commission District</b>
Kendall Drive / S.W. 150th Avenue	N/A	70 - 7/2010	11
Kendall Village Center (Kendall Drive / S.W. 124th Avenue)	N/A	300 - 7/2010	10
Kendall Town Center (Kendall Drive / S.W. 162nd Avenue)	N/A	40 - 12/2010	11
Miami Gardens Drive / N.W. 73rd Avenue *	N/A	124 - 03/2011	13
Busway / S.W. 344th Street *	N/A	261 - 05/2012	9
Dolphin Station (N.W. 12th Street / N.W. 107th Avenue)	N/A	189 - 08/2012	12
S.W. 127th Avenue / S.W. 88th Street (Kendall Drive) (FPL ROW) *	N/A	181 - 04/2013	10
7th Avenue Transit Village (N.W. 7th Avenue / N.W. 62nd Street) *	N/A	25 - TBD	3
Busway / S.W. 200th Street (HCD/OCED Caribbean Boulevard TOD project)	N/A	150 - TBD	9
NE Passenger Activities Center *	N/A - Hub	N/A - Hub	4
<b>Potential Metrobus Park &amp; Ride Lots / Hubs / Terminals ( 8 )</b>	<b>Spaces</b>	<b>Future New Spaces &amp; Anticipated Opening Date</b>	<b>Commission District</b>
Southland Mall	N/A	100 - TBD	8
Tropical Park (Bird Road / Palmetto Expressway)	N/A	100 - TBD	10
S.W. 152nd Street / S.W. 162nd Avenue (Parkland CDMP/DRI)	N/A	200 - TBD	9
N.W. 27th Avenue / N.W. 215th Street (County line)	N/A	500 - TBD	1
N.W. 27th Avenue / N.W. 119th Street (MDC - North Campus)	N/A	200 - TBD	2
S.W. 8th Street / S.W. 147th Avenue (FDOT surplus property)	N/A	200 - TBD	11
Palmetto Bay Multi-Modal Center (S.W. 97th Avenue / East Hibiscus Street)	N/A	400 - TBD	8
Busway / S.W. 184th Street (Quail Roost TOD)	N/A	200 - TBD	9

**GRAND TOTAL**

**12,503**

**4,211 ( anticipated )**

Note: \* = State or Federal funds programmed or requested

# **APPENDIX E**

**Priority I and II period (2010 – 2020) of the  
2035 Long Range Transportation Plan –  
LRTP**



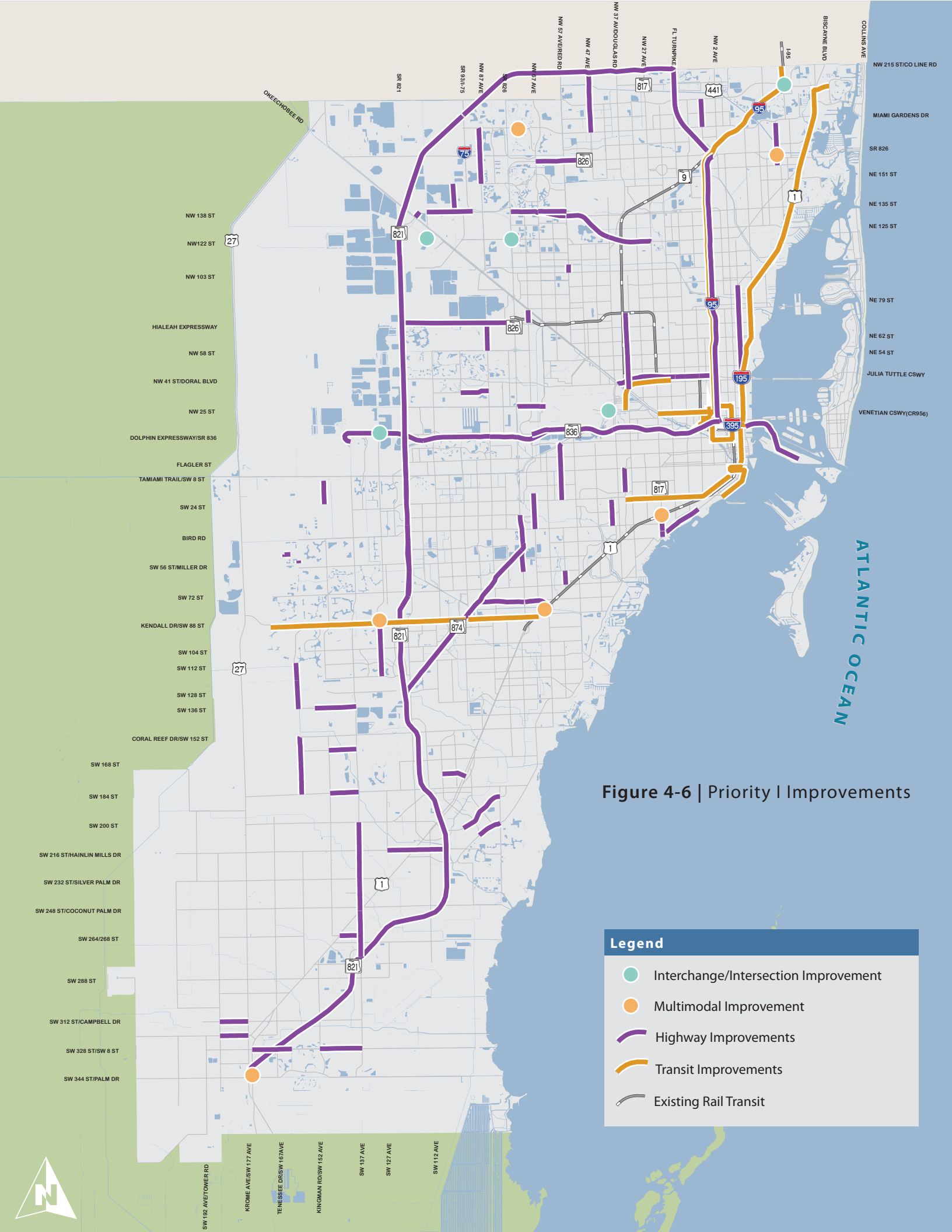


Figure 4-6 | Priority I Improvements

**Table 4-9 | Priority I Projects [Miami-Dade 2035 Long Range Transportation Plan]**

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
Advanced Traffic Management Systems			Intelligent transportation system (ITS) improvements on County roads	C			
Allapattah-Health District Trolley	NW 17th Avenue	NW 27th Avenue	Implement rubber tire trolley service	C			
Bus Pull-Out Bays			Construction of bus pull out bays at various locations	C			
Caribbean Boulevard	Coral Sea Road	SW 87th Avenue	Widen to 3 lanes (2 to 3)	P C			
Coral Way-Brickell Trolley	Brickell Metrorail/ Metromover station	Ponce de Leon Boulevard	Implement rubber tire trolley service	C			
Dadeland South Metrorail parking lot expansion			Expand existing park-and-ride lot	P C			
Douglas Road Metrorail Station			Reconstruct existing park-and-ride lot	P C			
Downtown-Brickell Trolley	Brickell Metrorail/ Metromover station	Omni area	Implement rubber tire trolley service	C			
Earlington Heights - Miami Intermodal Center extension	Earlington Heights Metrorail Station	Miami Intermodal Center (MIC)	Metrorail extension	C			
Health District (Civic Center) Trolley			Implement rubber tire trolley service loop providing service in the Health District area	C			
I-95	Interchange at Ives Dairy Road		Interchange modification	C			
I-95 Express	North of SR 836/I-395	Golden Glades Interchange	Add special use lanes	C			
I-95 regional express bus service	Broward Boulevard	Downtown Miami	Implement regional express bus service on I-95 between Broward and Miami-Dade counties	C			
MIA Central Boulevard	Miami International Airport	N/A	Ground transportation: construct access road	C			
Miami Intermodal Center (MIC)	MIC Central Station		Ground transportation hub improvements	P C			
Miami Intermodal Center (MIC)	MIC/MIA Station		Station improvement for MIC-MIA mover	C			
NE 15th Avenue	NE 163rd Street	NE 170th Street	Widen to 4 Lanes	C			
NE 15th Avenue	NE 159th-163rd Street	NE 170 Street-Miami Gardens Drive	Widen to 3 lanes, topics improvements	C			

 Planning & Design P | Right of Way (ROW) R | Construction C

Table 4-9 cont'd | Priority I Projects [Miami-Dade 2035 Long Range Transportation Plan]

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
NE 2nd Avenue	NE 20th Street	NE 91st Street	Street/Traffic Operational Improvements	C			
NE Passenger Activity Center @ NE 15th Avenue	at NE 165th Street		Park-and-Ride lot	P R C			
NW 7th Avenue	NW 183rd Street	NW 199th Street	Widening, drainage, pavement marking	C			
NW 107th Avenue and NW 122nd Street			New flyover ramp	C			
NW 25th Street Viaduct	SR 826	NW 68th Avenue	New road construction	C			
NW 25th Street	SR 826	NW 67th Avenue	Widen to 6 lanes (5 to 6)	C			
NW 33rd Street	NW 97th Avenue	NW 87th Avenue	Widen to 4 lanes (2 to 4)	C			
NW 37th Avenue	North River Drive	NW 79 Street	Widen to 3 lanes (2 to 3)	C			
NW 72nd Avenue	NW 74th Street	Okeechobee Road	Widen to 4 lanes and bridge (2 to 4)	C			
NW 74th Street	HEFT	SR 826 (Palmetto)	New 6 Lanes	C			
NW 74th Street	NW 87th Avenue	NW 84th Avenue	New 4 lanes	C			
NW 87th Avenue	NW 58th Street	NW 74th Street	New road construction	C			
NW 87th Avenue	NW 154th Street	NW 186th Street	Widen to 4 lanes (2 to 4)	C			
NW 97th Avenue	NW 138th Street	NW 154th Street	New 4 lanes	C			
NW 138th Street	NW 107th Avenue	I-75	Widen to 6 lanes and canal relocation (2 to 6)	C			
NW 138th Street bridge	Bridge over Miami River Canal at NW 138 Street		Bridge construction	C			
Old Cutler Road	SW 97th Avenue	SW 87th Avenue	Traffic operational improvements	P C			
Overtown-Health District Trolley			Implement rubber tire trolley service loop providing service in the Overtown community	C			
Park-and-Ride @ SW 344th Street and Busway	SW 344th Street and Busway		Park-and-Ride lot	C			
Park-and-Ride at FP&L site			Park-and-Ride lot	P C			
Perimeter Road	NW 72nd Avenue	NW 57th Avenue	Intermodal hub capacity	C			

Planning & Design P | Right of Way (ROW) R | Construction C

**Table 4-9 cont'd | Priority I Projects [Miami-Dade 2035 Long Range Transportation Plan]**

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
Ponce De Leon Boulevard	Alcazar Avenue	SW 8th Street	Addition of left turn bays	C			
Port of Miami Tunnel	Port of Miami	SR 836/I-395	New port access road	P C			
Segovia Street	Bird Road	Biltmore Way	4 to 2 lanes	C			
South Bayshore Drive	Darwin Street	Mercy Way	Road improvements	C			
SR 5/US-1/Biscayne BRT	Biscayne Blvd/SR 5/US-1 From Omni Terminal	Aventura Mall	Premium transit improvement	C			
SR 5/US-1	Mile Marker 121.32	Mile Marker 124.18	Capacity improvement	C			
SR 94/Kendall Enhanced Bus Service	Dadeland North Metrorail Station	SW 167th Avenue	Premium transit improvement	C			
SR 112/Airport Expressway	NW 17th Avenue	NW 12th Avenue	SR 112 infrastructure modifications for open road tolling	P C			
SR 112/Airport Expressway	Lejeune Road	I-95	Toll system conversion to open road tolling	C			
SR 821/HEFT	US-1	I-595	Toll plaza conversion to all electronic tolling	P C			
SR 823/NW 57th Avenue/Red Road	W 46th Street/103rd Street	W 53rd Street	Widen to 6 lanes (4 to 6)	C			
SR 826/Palmetto Expressway & SR 836/ Dolphin Expressway Interchange	NW 87th Avenue	NW 57th Avenue	Interchange modification	P C			
SR 826/Palmetto Expressway @ NW 122nd Street	West 21st Court	East of West 20th Avenue	Interchange ramp modification	C			
SR 826/Palmetto Expressway	North of Sunset Drive/ SW 72nd Street	SW 32nd Street	Interchange modification	C			
SR 826/Palmetto Expressway	NW 67th Avenue	NW 47th Avenue	Add auxiliary lane	C			
SR 836/Dolphin Expressway	SR 826/SR 836 Interchange	NW 42th Avenue	Construction of an additional auxiliary lane on SR 836	C			
SR 836/Dolphin Expressway	NW 107th Avenue	SR 836	Construction of emergency access ramp	C			
SR 836/Dolphin Expressway	NW 22nd Avenue	NW 17th Avenue	Modification of existing toll plaza for open road tolling	P C			
SR 836/Dolphin Expressway	NW 137th Avenue	I-95	Toll system conversion to open road tolling	C			

 Planning & Design **P** | Right of Way (ROW) **R** | Construction **C**



Table 4-9 cont'd | Priority I Projects [Miami-Dade 2035 Long Range Transportation Plan]

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
SR 847/NW 47th Avenue	NW 183rd Street	Miami-Dade/ Broward County Line	Widen to 4 lanes (2 to 4)	P C			
SR 860/Miami Gardens Drive			Park-and-Ride lot	C			
SR 874/Killian Parkway interchange	HEFT	Kendall Drive	Modifications: interchange/new construction: toll plaza, ramp plaza	C			
SR 874/SR 826 interchange	North of SR 874 / 826 interchange	South of SR 874 / 826 interchange	Interchange improvements	P C			
SR 874/Don Shula Expressway	Kendall Drive	SR 826	Modification of SR 874 mainline roadway	C			
SR 874/Don Shula Expressway	SR 826	HEFT	Toll system conversion to open road tolling	C			
SR 878/Snapper Creek Expressway	US-1	SR 874	Toll system conversion to open road tolling	C			
SR 916/NW 138th Street	NW 57th Avenue	NW 67th Avenue	Widen to 5 lanes (3 to 5)	C			
SR 924/Gratigny Parkway	East of 57th Avenue	LeJeune Road	Remove existing toll plaza, roadway reconstruction/modifications for open road tolling	C			
SR 924/Gratigny Parkway	SR 826	NW 27th Avenue	Toll system conversion to open road tolling	C			
SW 127th Avenue	SW 88th Street	SW 120th Street	Widen to 4 lanes with median, swales, frontage road	C			
SW 136 Street	SW 149th Avenue	SW 139th Court	Widen to 4 lanes (2 to 4)	C			
SW 137th Avenue	HEFT	US- 1	Widen to 4 lanes (2 to 4)	C			
SW 137th Avenue	US-1	SW 200th Street	Completion as 2 continuous lanes	C			
SW 147th Avenue	SW 22nd Terrace	SW 10th Street	Widen to 4 lanes (New 2 lanes)	C			
SW 157th Avenue	SW 54th Terrace	SW 52nd Street	Widen to 4 lanes (2 to 4)	C			
SW 157th Avenue	SW 136th Street	SW 120th Street	New 4 Lanes	C			
SW 157th Avenue	SW 120th Street	SW 112th Street	New 4 Lanes	C			
SW 157th Avenue	SW 184th Street	SW 152nd Street	New 4 Lanes	C			
SW 160th Street	SW 147th Avenue	SW 137th Avenue	New 4 lanes	C			
SW 162nd Avenue / SW 47th Street	SW 47th Street/ SW 160th Avenue	SW 48th Terrace/ SW 162nd Court	Widen SW 162nd Avenue to 4 lanes (2 to 4)/ SW 47th Street to 3 lanes (2 to 3)	C			

Planning &amp; Design P | Right of Way (ROW) R | Construction C

**Table 4-9 cont'd | Priority I Projects [Miami-Dade 2035 Long Range Transportation Plan]**

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
SW 176th Street	US-1	SW 107th Avenue	Traffic operational improvements	C			
SW 184th Street	SW 147th Avenue	SW 137th Avenue	Widen to 4 lanes (2 to 4)	C			
SW 27th Avenue	US-1	Bayshore Drive	Widen to 3 lanes (2 to 3)	C			
SW 216th Street	HEFT	SW 127th Avenue	Traffic operational improvements	C			
SW 264th Street	US-1	SW 137th Avenue	Traffic operational improvements	C			
SW 312th Street/Campbell Drive	SW 187th Avenue	SW 177th Avenue	Widen to 5 lanes	P C			
SW 320th Street/Mowry Drive	SW 187th Avenue	Flagler Avenue	Add turn lane(s)	C			
SW 328th Street/North Canal Drive	SW 152nd Avenue	SW 137th Avenue	Widen to 4 lanes (2 to 4)	C			
SW 328th Street/North Canal Drive	US-1	SW 162nd Avenue	Widen to 4 lanes (2 To 4)	C			
SW 62nd Avenue	SW 70th Street	SW 64th Street	5 to 2 lanes	C			
SW 62nd Avenue	SW 24th Street	NW 7th Street	Street improvements	C			
SW 72nd Avenue	SW 20th Street	SW 40th Street	Street and traffic operational improvements	C			
Traffic control devices			Signalization improvements at various locations	P C			
Transit Hub @ NW 7th Avenue and NW 62nd Street	NW 7th Avenue/NW 62nd Street		Construct new passenger activity center	R C			
W 68th Street	W 19th Court	W 17th Court	Add lane on south side and signalization	C			

 Planning & Design P | Right of Way (ROW) R | Construction C

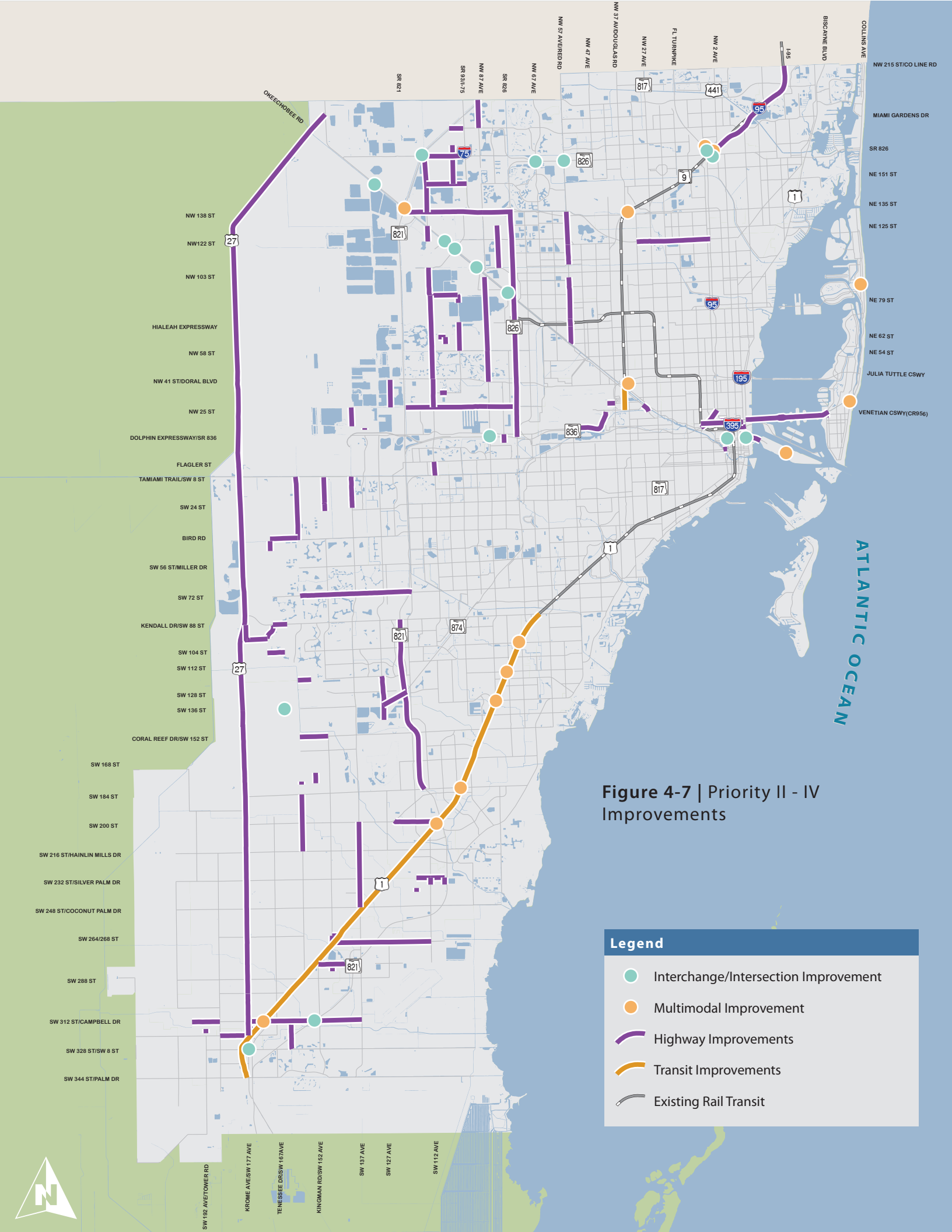


Figure 4-7 | Priority II - IV Improvements

Legend

Interchange/Intersection Improvement

Multimodal Improvement

Highway Improvements

Transit Improvements

Existing Rail Transit

**Table 4-10 | Priority II - IV Projects [Miami-Dade 2035 Long Range Transportation Plan]**

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
Existing County roads O&M				*	*	*	*
Existing transit system O&M				*	*	*	*
MDT contribution to SFRTA				*	*	*	*
MDT bus acquisition				*	*	*	*
MDT Metrorail vehicle replacement				*	*		
MDT Infrastructure Renewal Program				*	*	*	*
Non-motorized set aside					*	*	*
Congestion Management set aside					*	*	*
<b>Priority II Improvements</b>							
1st Street Bridge	over Miami River	US-1	Bridge replacement	P	P C		
Golden Glades Multi-modal Facility Upgrade			Capacity improvement, including a pedestrian overpass to connect Golden Glades intermodal center to business park west of CSX tracks		P R C		
Golden Glades Multi-modal Terminal		Tri-Rail/MDT Terminal	1,000 space deck, intermodal center with improved bus circulation and improved ADA, Replace multiple existing pedestrian bridges with a single-level bridge		C		
I-95 (NB) Ramp to Turnpike/SR 826			Add 1 auxiliary/acceleration lane		P C		
Miami Beach Intermodal Center	63rd Street Collins Avenue	87th Street West Bay Drive	New North Beach bus transfer station		C		
NW 14th Street	Civic Center	Biscayne Boulevard	Widen to 3 lanes (2 to 3)		R C		
NW 25th Street	NW 89th Court	HEFT	Traffic signal improvements; improve intersections to accommodate truck movements.		P R C		
NW 25th Street	NW 89th Court	SR 826	Widen to 6 lanes (4 to 6)		C		
NW 25th Street Viaduct	SR 826	NW 87th Court	Phase 2 - construction of Viaduct from SR 826 to NW 87th Court		C		
NW 87th Avenue	NW 36th Street	NW 58th Street	Widen to 6 lanes (4 to 6)		P R C		

 Planning & Design P | Right of Way (ROW) R | Construction C

\* Denotes program expenditure by period.

Table 4-10 cont'd | Priority II - IV Projects [Miami-Dade 2035 Long Range Transportation Plan]

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
NW 87th Avenue extension	NW 58th Street	NW 95th Street	Extend to connect the freight hubs of Doral and Medley		P R C		
NW 107th Avenue	NW 41st Street	NW 25th Street	Widen to 6 lanes (4 to 6)		P R C		
NW 107th Avenue	1000ft N of NW 122nd Street	Okeechobee Road	Widen bridge over Miami Canal		C		
NW South River Drive	NW 19th Street	NW 23rd Avenue	Widen Tamiami Swing Bridge to 4 lanes (2 to 4)		P C		
Parking expansion at Opa-Locka Tri-Rail station	Opa-Locka Tri-Rail Station		Opa-Locka Tri-Rail station parking improvements		P C		
Port of Miami			Construct parking garage - intermodal hub capacity		C		
South Beach bus transfer station			New South Beach bus transfer station		C		
SR 25/Okeechobee Road	at NW 154th Street		Traffic signals		C		
SR 823/NW 57th Avenue/Red Road	W 19th Street	W 23rd Street	Widen to 6 lanes (4 to 6)		C		
SR 823/NW 57th Avenue/Red Road	Okeechobee Road	W 19th Street	Widen to 5 lanes (4 to 5)		C		
SR 823/NW 57th Avenue/Red Road	W 53rd Street	W 65th Street	Widen to 6 lanes (4 to 6)		C		
SR 823/NW 57th Avenue /Red Road	W 23rd Street	W 46th Street	Widen to 6 lanes (4 to 6)		C		
SR 860/NW 186th Street/Miami Gardens Drive	NW 97th Avenue	I-75	New 4 lanes		P R C		
SR 997/Krome Avenue	SW 136th Street	Kendall Drive	Widen to 4 lanes (2 to 4)		P C		
SR 997/Krome Avenue	SR 94/Kendall Drive	SR 90/SW 8th Street	Widen to 4 lanes (2 to 4)	P	C		
SW 137th Avenue	US-1	SW 184th Street	Widen to 4 lanes (2 to 4)		C		
SW 137th Avenue	SW 24th Street	SW 8th Street	Widen to 6 lanes (4 to 6)		P C		
SW 264th Street	US-1	SW 147th Avenue	New 2-lane		P R C		
SW 264th/SW 268th St	SW 147th Ave	SW 112th Avenue	Roadway improvements		P R C		
SW 320th Street/Mowry Drive	S. Dixie Highway	SW 187th Avenue	Widen to 4 lanes with continuous left turn lanes (2 to 4)		P R C		
SW 328th Street/North Canal Drive		US-1	Intersection improvements - add turn lanes		P R C		

Planning & Design P | Right of Way (ROW) R | Construction C

**Table 4-10 cont'd | Priority II - IV Projects [Miami-Dade 2035 Long Range Transportation Plan]**

Facility/Corridor	From	To	Description	Priority/Funding Phase			
				I 2010-2014	II 2015-2020	III 2021-2025	IV 2026-2035
Truck Parking Improvement		Okeechobee Road	Provide a location in the area of Okeechobee and the HEFT for long-term truck parking and staging.		P R C		
Truck Parking Improvement			Develop a truck staging area near NW 36th Street and NW 37th Avenue for the Port of Miami River.		P R C		
West 24th Avenue	W 52nd Street	W 76th Street	Widen to 5 lanes (2 to 5)		P C		
<b>Priority III Improvements</b>							
Downtown/Port Access			Construct I-95 NB Slip Ramp on NW 6th St; Implement NE/NW 5th/6th St/Port Blvd. improvements for access between POM and I-95 slip ramp		P R	C	
I-95	Golden Glades Interchange	Broward County Line	Special use lanes (managed lanes)			C	
MIC Loan Repayment						C	
SR 821/HEFT	Eureka Drive	Kendall Drive	Widen to 8-, 10-, 12-lanes plus auxiliary lanes			C	
SR 826/Palmetto Expressway	SR 836	NW 87th Avenue on I-75	Special use lanes		P C	C	
SR 826/Palmetto Expressway @ 67th Avenue			Interchange improvements - reconstruct as SPUI interchange		P	C	
SR 836/Dolphin Expressway	NW 12th Avenue	Ramp to I-95	Ramp to I-95			C	
SR 886/Port Bridge			Repairs to bascule rail and vehicle bridge			P C	
SR 924/Gratigny Parkway Extension (west)	SR 826/I-75	HEFT	Limited access facility providing a connection between HEFT, I-75, SR 924, SR 826	P	P R	C	
SW 127th Avenue	SW 120th Street	SW 144th Street	New 4 lanes / Widen to 4 lanes		P R	C	
SW 152nd Street	SW 147th Avenue	SW 157th Avenue	Widen to 4 lanes (2 to 4)			P C	
Venetian Causeway Bridge	Bayshore Drive	Purdy Avenue	Bridge replacement		P	C	

Planning &amp; Design P | Right of Way (ROW) R | Construction C

# **APPENDIX F**

**Transportation Improvement Program –  
TIP (2011 - 2015)**





## INDEX - 2011 TIP

MPO Proj. No.	FACILITY	From / Location	To / Location	TYPE OF WORK	RESPONSIBLE AGENCY	Page #
PS0000118	NW 33 Street (South side)	NW 102 Avenue	NW 104 Avenue	Matching existing to the East and West	Private Sector	A8-7
PW000304a	NW 37 Avenue	North River Drive	NW 79 Street	Widening: 2 to 5 lanes	MD Public Works	A7-2
PW0000291	NW 41 St & NW 97 AV			Congestion Management	MD Public Works	A16-12
DT2499411	NW 57 AVENUE/Red Road	FROM W. 40TH STREET	TO W. 53RD STREET	ADD LANES & RECONSTRUCT	Florida Department of Transp	A1-34
DT2499413	NW 57 AVENUE/Red Road	FROM OKEECHOBEE ROAD	TO WEST 19TH ST.	ADD LANES & RECONSTRUCT	Florida Department of Transp	A1-35
DT2499414	NW 57 AVENUE/Red Road	FROM W 65 STREET	TO W 84TH STREET	FLEXIBLE PAVEMENT RECONSTRUCT.	Florida Department of Transp	A1-35
PW000007	NW 58 St	SR 985/NW 107 Ave	SR 826/ Palmetto Expwy	Congestion Management	MD Public Works	A16-10
PS0000120	NW 66 Street	NW 102 Avenue	NW 107 Avenue	Full Improvement	Private Sector	A8-7
PW000625	NW 68 Avenue and Miami Gardens Drive			Traffic Study	MD Public Works	A5-14
PW0000205	NW 7 Avenue	NW 183 Street	NW 199 Street	Widening, Drainage, Pavement Markings	MD Public Works	A5-13
PW1000008	NW 7 Avenue & NW 119 Street	Intersection		Intersection renovation: reposition of median	MD Public Works	A16-13
PW000312a	NW 7 Street	NW 72 Avenue	NW 37 Avenue	Resurfacing and Traffic Operational Improvements	MD Public Works	A7-7
PW662347	NW 72 Avenue	NW 74 Street	Okeechobee Road	Widening: 2 to 4 lanes and bridge	MD Public Works	A5-1
PW662347S	NW 72 Avenue	NW 74 Street	Okeechobee Road	Widening: 2 to 4 lanes and bridge	MD Public Works	A4-8
PW000031	NW 74 Street	NW 87 Avenue	NW 84 Avenue	New Construction: 4 lanes	MD Public Works	A5-1
PW20040355	NW 74 Street	HEFT	SR 826 (Palmetto)	New 6 lanes	MD Public Works	A7-19
DT4276061	NW 74TH STREET	@ FEC RR XING #272755U		RAIL SAFETY PROJECT	Florida Department of Transp	A1-35
PW1000016	NW 77 Court & NW 154 Street	Intersection		New Construction: left turn lane	MD Public Works	A16-14
DT4284481	NW 79TH AVENUE	FROM NW 25TH STREET	TO NW 58TH STREET	RESURFACING	Florida Department of Transp	A1-36
TA0000038	NW 7th Avenue and NW 62nd Street Passenger Ac	NW 7 Avenue/NW 62 Street		Construct New and improve existing Passenger Activi	Miami-Dade Transit Agency	A11-6
PW20040390	NW 87 Avenue	NW 154 Street	NW 186 Street	Widening: 2 to 4 lanes	MD Public Works	A7-21
PS0000025	NW 90 Street	NW 114 Avenue	NW 112 Avenue	New construction: 2 lanes	Private Sector	A8-1
PW0000110	NW 97 Avenue	NW 138 Street	NW 154 Street	New 4 lanes	MD Public Works	A5-15
PW671128	NW 97 Avenue	Bridge over SR-836		4 lane bridge and approaches	MD Public Works	A5-2
PW000717	Okeechobee Road and NW 138 Street			Intersection improvements	MD Public Works	A5-57
PW000006	Old Cutler Rd	SW 216 Street	SW 37 Ave	Congestion Management	MD Public Works	A16-10
PW000441	Old Cutler Road	SW 97 Avenue	SW 87 Avenue	Curb & Gutter, Traffic Operational Improv.	MD Public Works	A7-12
PW000715	Old Cutler Road	Red Road	Kendall Drive	Resurfacing	MD Public Works	A5-45
MU0000056	One-waying of South Beach Local Streets			Capacity improvements	City of Miami Beach	A16-8
AP4223171	OPALOCKA AIRPORT	REHAB.RUNWAY 9L-27R, TWY	& APRONS OPF AIRSID	AVIATION PRESERVATION PROJECT	Miami-Dade Aviation Departm	A1-115
AP4223172	OPALOCKA AIRPORT	REHAB APRONS		AVIATION CAPACITY PROJECT	Miami-Dade Aviation Departm	A1-116
APK036A	OPF Rehab of Rigid Apron Pavement in the area of	Opa Locka Executive Airport	N/A	Apron: Construct Apron (Standards)	Miami-Dade Aviation Departm	A9-9
AP0149A	OPF Rehabilitate Runway 9L-27R Taxiways and A	Opa-Locka Executive Airport		Runways: Rehabilitate Runway	Miami-Dade Aviation Departm	A9-9
DT4209171	OVERTOWN GREENWAY	BETWEEN NW 3RD AVE AND NW	7TH AVENUE	BIKE PATH/TRAIL	Florida Department of Transp	A1-36
TA0000007	Park and Ride at S.W. 344 Street and Busway	S.W. 344th Street and Busway		Park & Ride Lot	Miami-Dade Transit Agency	A11-2

## INDEX - 2011 TIP

MPO Proj. No.	FACILITY	From / Location	To / Location	TYPE OF WORK	RESPONSIBLE AGENCY	Page #
TA3	Park and Ride Facility at Quail Roost Drive	SW 184th Street & Busway		Park & Ride Facility	Miami-Dade Transit Agency	A11-13
TA4	Park and Ride Facility at SW 168th Street and Bus	SW 168th Street & Busway		Park & Ride Facility	Miami-Dade Transit Agency	A11-13
TA0000054	Park and Ride Lot Kendall Drive			Construction of Park & Ride Facility	Miami-Dade Transit Agency	A11-8
TA0000057	Park and Ride Lot Program			MDT program to identify potential sites and construct	Miami-Dade Transit Agency	A16-18
TA0000009	Passenger Amenities and Transit Enhancements	Countywide		Capital Equipment and Improvements	Miami-Dade Transit Agency	A11-2
PW0000021	Pavement Markings Contract				MD Public Works	A4-2
PW000107	Pavement Markings Crew				MD Public Works	A4-5
AP4182081	PERIMETER ROAD	FROM NW 72 AVENUE	TO NW 57 AVENUE	INTERMODAL HUB CAPACITY	Miami-Dade Aviation Departm	A1-116
DT4280441	PLEMO OPERATING FUND	NON-PROJECT SPECIFIC	CONSULTANT TASKS	TRANSPORTATION PLANNING	Florida Department of Transp	A1-148
PW000704	Ponce de Leon Blvd	Alcazar Avenue	Salamanca Avenue	4 to 4 lanes with left turn bays	MD Public Works	A5-41
PW000705	Ponce de Leon Blvd	Salamanca Avenue	Antiquera Avenue	4 to 4 lanes with left turn bays	MD Public Works	A5-42
PW000518	Ponce De Leon Boulevard	Alcazar Avenue	SW 8 Street	4 to 4 lanes with left turn bays	MD Public Works	A5-41
SP2544522	PORT OF MIAMI	SOUTH FISHERMAN'S CHANNEL		SEAPORT CAPACITY PROJECT	Miami-Dade Seaport Departm	A1-119
SP4205341	PORT OF MIAMI	CARGO CONTAINER YARD	IMPROVEMENTS	SEAPORT CAPACITY PROJECT	Miami-Dade Seaport Departm	A1-120
SP4205342	PORT OF MIAMI	CARGO GATEWAY COMPLEX		SEAPORT CAPACITY PROJECT	Miami-Dade Seaport Departm	A1-120
SP641710	PORT OF MIAMI			Cruise Terminal D & E	Miami-Dade Seaport Departm	A10-1
SP641840	PORT OF MIAMI			Security Access Controls for TWIC	Miami-Dade Seaport Departm	A10-1
SP642380	PORT OF MIAMI	Waterside		Fender Replacements	Miami-Dade Seaport Departm	A10-1
SP6432900	PORT OF MIAMI	Seaport	NA	CT B & C	Miami-Dade Seaport Departm	A10-2
SP643320	PORT OF MIAMI			Parking Garage Terminal D	Miami-Dade Seaport Departm	A10-2
SP6433531	PORT OF MIAMI	Seaport		Container Cranes 13 & 14	Miami-Dade Seaport Departm	A10-3
SP643560	PORT OF MIAMI			Gantry Berth Reinforcements	Miami-Dade Seaport Departm	A10-3
SP644010	PORT OF MIAMI			Security	Miami-Dade Seaport Departm	A10-3
SP644520	PORT OF MIAMI			Container Yard Improvements -	Miami-Dade Seaport Departm	A10-4
SP644710	PORT OF MIAMI			CT D & E Upgrades for New Service	Miami-Dade Seaport Departm	A10-4
SP645320	PORT OF MIAMI			Crane Electrification	Miami-Dade Seaport Departm	A10-5
SP645430	PORT OF MIAMI			Infrastructure Improvements	Miami-Dade Seaport Departm	A10-5
SP645970	PORT OF MIAMI	Port of Miami		Security-CPIF	Miami-Dade Seaport Departm	A10-5
SP646440	PORT OF MIAMI			Gantry Crane Refurbishment & Upgrades	Miami-Dade Seaport Departm	A10-6
SP646670	PORT OF MIAMI			RIP RAP improvements	Miami-Dade Seaport Departm	A10-6
SP647480	PORT OF MIAMI			Wharf 1 Repairs-Safety	Miami-Dade Seaport Departm	A10-6
SP647710	PORT OF MIAMI			Bulkhead Improvements	Miami-Dade Seaport Departm	A10-7
SP647890	PORT OF MIAMI			Communications Command and Control Center-Secu	Miami-Dade Seaport Departm	A10-7
SP648880	PORT OF MIAMI			Basculer Railroad Bridge Improvement	Miami-Dade Seaport Departm	A10-7
SP649730	PORT OF MIAMI	South Channel		Dredging Phase III	Miami-Dade Seaport Departm	A10-8

## INDEX - 2011 TIP

MPO Proj. No.	FACILITY	From / Location	To / Location	TYPE OF WORK	RESPONSIBLE AGENCY	Page #
DT4258571	SAFE RTS. TO SCHOOL	Caribbean Elem, South Pointe Elem	South Miami Heights Elem	PEDESTRIAN SAFETY IMPROVEMENT	Florida Department of Transp	A1-39
DT4259081	SAFE RTS. TO SCHOOL	TEN ELEMENTARY SCHOOLS	IN MIAMI-DADE COUNTY	PEDESTRIAN SAFETY IMPROVEMENT	Florida Department of Transp	A1-40
PW000027	Safety Lighting				MD Public Works	A4-3
PW000440	School Flashing Signals				MD Public Works	A7-23
TA0000051	Security and Safety Equipment	Countywide		Acquire capital equipment, design and construct secu	Miami-Dade Transit Agency	A11-7
PW000645	Segovia Street	Bird Road	Biltmore Way	4 to 2 lanes	MD Public Works	A5-44
PW000524	Segovia Street and Biltmore Way			Roundabout	MD Public Works	A5-44
DT2501131	SERVICE PATROLS	SR 826/PALMETTO XWAY		ITS FREEWAY MANAGEMENT	Florida Department of Transp	A1-40
DT2501132	SERVICE PATROLS	SR 93/I-75		ITS FREEWAY MANAGEMENT	Florida Department of Transp	A1-40
TR4170315	SFECC CORRIDOR	TRANSIT ALTERNATIVE	ANALYSIS	RAIL SAFETY PROJECT	So. Florida Regional Transpo	A1-117
TR0000001	SFRTA			Station Improvements	So. Florida Regional Transpo	A10-1
TR0000002	SFRTA	79th St Tri-Rail/Metrorail Station Impro		Station Improvements	So. Florida Regional Transpo	A10-1
TR0000003	SFRTA	Ticket Vending Machines w/Smart Car		Procure/Implement: Ticket vending machines	So. Florida Regional Transpo	A10-1
TR0000004	SFRTA	Planning/Capital Development		Planning & Capital Development	So. Florida Regional Transpo	A10-2
TR0000005	SFRTA	General Engineering Consultants		General Engineering Consultants	So. Florida Regional Transpo	A10-2
TR0000006	SFRTA	Planning and Program Support		Short / Long Range Planning and Program Support	So. Florida Regional Transpo	A10-2
TR0000007	SFRTA	Operations Department Projects		Miscellaneous Improvements	So. Florida Regional Transpo	A10-3
TR0000008	SFRTA	Rolling Stock Rehab & Spare Parts		Rehabilitation/Overhaul of Fleet	So. Florida Regional Transpo	A10-3
TR0000009	SFRTA	Computer/Office Equipment		Misc. equipment	So. Florida Regional Transpo	A10-3
TR0000010	SFRTA	CSX/Tri-Rail Hialeah Yard			So. Florida Regional Transpo	A10-4
TR0000011	SFRTA	Hialeah Yard Layup Track		Rail Capacity Project	So. Florida Regional Transpo	A10-4
TR0000012	SFRTA	Capital Improvements Autos		Purchase fleet vehicles	So. Florida Regional Transpo	A10-4
TR0000013	SFRTA	Rolling Stock		Purchase of New Rolling Stock	So. Florida Regional Transpo	A10-5
TR0000014	SFRTA	Preventive Maintenance		Tri-Rail Operating and Maintenance	So. Florida Regional Transpo	A10-5
TR0000015	SFRTA	Tri-Rail Opa-Locka Station Additional P		Park and Ride Lots	So. Florida Regional Transpo	A10-5
DT2512003	SNAKE CREEK TRAIL	FROM NE MIAMI GARDENS DR.	TO NW 17 AVENUE/TURN	BIKE PATH/TRAIL	Florida Department of Transp	A1-108
TP4224188	SNAPPER CREEK	SERVICE PLAZA MODIFICATIO	N (HEFT MP 19)	REST AREA	Turnpike Enterprise	A1-2
TA4179511	SO FLA COMM SERVICES	REGIONAL COMM.ASSIST.PGM.	MIAMI-DADE CTY OPERA	COMMUTER TRANS. ASSISTANCE	Miami-Dade Transit Agency	A1-139
PW0000106	South Bayshore Drive	Darwin Street	Mercy Way	Roadway Improvements	MD Public Works	A5-7
PW000315a	South Bayshore Drive	Darwin Street	Mercy Way	Roadway Improvements, Drainage	MD Public Works	A7-9
TA4145371	SOUTH FL VANPOOL	MIAMI-DADE COUNTY PROGRAM	CAPITAL LEASING	COMMUTER TRANS. ASSISTANCE	Miami-Dade Transit Agency	A1-139
TA4145372	SOUTH FL VANPOOL	MIAMI-DADE COUNTY PROGRAM	CAPITAL LEASING	COMMUTER TRANS. ASSISTANCE	Miami-Dade Transit Agency	A1-139
TA4162222	SOUTH FL VANPOOL -	FTA 5307 & STATE TRANSIT	BLOCK GRANT FROM MD	COMMUTER TRANS. ASSISTANCE	Miami-Dade Transit Agency	A11-15
TA4162223	SOUTH FL VANPOOL -	FTA 5307 & STATE TRANSIT	BLOCK GRANT FROM MD	COMMUTER TRANS. ASSISTANCE	Miami-Dade Transit Agency	A11-15
TA2535511	SOUTH FLA COMMUTER	SERVICES IN MIAMI-DADE	COUNTY - TMI SUPPORT	COMMUTER TRANS. ASSISTANCE	Miami-Dade Transit Agency	A1-139

## INDEX - 2011 TIP

MPO Proj. No.	FACILITY	From / Location	To / Location	TYPE OF WORK	RESPONSIBLE AGENCY	Page #
PW000103	Traffic Signal Loop Repairs				MD Public Works	A4-4
PW000110	Traffic Signal Materials				MD Public Works	A4-6
APK026A	Training in Transition (TNT) Restriping of pavement	Dade-Collier Training and Transition Air		Runways: Rehabilitate Runway	Miami-Dade Aviation Departm	A9-10
DT2500842	TRANSPORTATION	SYSTEMS MANAGEMENT & OPS	CONSULTANT. 08	CORRIDOR/SUBAREA PLANNING	Florida Department of Transp	A1-24
DT2520711	TRANSPORTATION	STATISTICS SUPPORT #1		TRANSPORTATION STATISTICS	Florida Department of Transp	A1-146
DT2521801	TRANSPORTATION	STATISTICS SUPPORT #2		TRANSPORTATION STATISTICS	Florida Department of Transp	A1-148
DT4081991	TRANSPORTATION	STATISTICS SUPPORT #3		URBAN CORRIDOR IMPROVEMENTS	Florida Department of Transp	A1-146
DT4132211	TRANSPORTATION	SYSTEMS GIS DATA	DEVELOPMENT AND MA	TRANSPORTATION STATISTICS	Florida Department of Transp	A1-146
TA2544672	Transportation Disadvantaged Commission Plannin				Miami-Dade Transit Agency	A1-144
TA2544671	Transportation Disadvantaged Commission-Trip &				Miami-Dade Transit Agency	A1-144
DT4103531	TRANSPORTATION PLANNING ANALYSES			CORRIDOR/SUBAREA PLANNING	Florida Department of Transp	A1-147
TA4276251	TRI-COUNTY RAIL	OPALOCKA STATION	ADDITIONAL PARKING	PARK AND RIDE LOTS	Miami-Dade Transit Agency	A1-143
TA0000060	Urban Corridor Service	Various		Urban Corridor Improvements	Miami-Dade Transit Agency	A11-8
DT000060	US 1	SW 88 St. (Kendall Dr)	I 95	Congestion management	Florida Department of Transp	A16-6
PW1000017	US 1 & Red Road	Intersection		Extension: left turn lane	MD Public Works	A16-14
XA20003	US 1 Express Lanes	SW 344 Street	SW 88 Street	PD&E Study to convert. */ Pending 2030	Miami-Dade Expressway Aut	A3-2
PW000712	US1 and SW 336 St			Traffic Signal	MD Public Works	A5-36
PW000650	Venetian Causeway			Signalization	MD Public Works	A5-51
PW000716	Venetian Causeway Bridges			Study	MD Public Works	A5-52
DT000027	W 29 St & SR 959/SW 57 Ave/Red Rd			Congestion Management	Florida Department of Transp	A16-3
PW671951	W 68 Street	W 19 Court	W 17 Court	Add lane on south side and signalization	MD Public Works	A5-57
DT000049	Way-Finding Sign Improvement Program			Improve county-wide for movements to/from regional	Florida Department of Transp	A16-5
DT4276043	WEST 16 AVENUE	FROM WEST 76 STREET	TO WEST 84 STREET	RESURFACING	Florida Department of Transp	A1-101
DT4261941	West 29th Street	West 4th Avenue	Okeechobee Road	REPAIRING & RESTRIPING	Florida Department of Transp	A1-1
DT4209101	WEST AVE. CONNECTOR	BRDG FRM N. OF LINCOLN RD	TO SOUTH OF 18 STREE	NEW BRIDGE CONSTRUCTION	Florida Department of Transp	A1-101
PW1000010	West Flagler & W 102 Avenue	Intersection		New Construction: right turn lane	MD Public Works	A16-13
TP4060961	WIDEN H.E.F.T(SR821)	FROM N OF EUREKA TO SOUTH	OF KENDALL DR	ADD LANES & RECONSTRUCT	Turnpike Enterprise	A1-1
API111B	X-51 (Homestead General) Security Project	Homestead General Aviation Airport		Security Enhancements (EDS)	Miami-Dade Aviation Departm	A9-8

# **APPENDIX G**

## **Near Term Transit Plan (2012 – 2015)**



## Near Term Transit Plan For Miami-Dade County

**TABLE 4**  
**TRANSIT PROJECT COST SUMMARY**

Corridor Projects	Capital Needs	Capital Costs	O&M Costs
<b>Airport Link</b>	Previously covered	Previously Covered	\$22,700,000
<b>Route 7</b>	1 bus	\$950,000	\$800,000
<b>North Corridor</b>			
-additional service on 97	5 40' Hybrid buses	New buses previously ordered	\$924,500
Replacement buses to be placed on Route 27	5 articulated buses	\$4,750,000	Already covered (replacements)
Park-and-ride at NW 215 Street	Acquire 14 acre site	\$5,025,000	NA
	350 parking spaces	2,100,000	\$120,000
	Bus terminal	\$3,000,000	
-24 bus stations		\$4,500,000	\$75,400
*Acquire P&R and relocate Armory at MDC		\$10,000,000*	
<b>East-West Corridor</b>			
-Additional buses on Route 51	4 Articulated Buses	\$3,800,000	\$301,192
-New Express Route	10 Articulated buses	\$9,500,000	\$2,007,000
8 Bus Stations		\$1,200,000	\$177,000
-Transit Hub at 107 Ave. and 12 Street		Developer provided.	\$120,000
-Park-and-ride at SW 147 Ave.	Acquire land	\$5,000,000	NA
	Construct 350 spaces	\$2,100,000	\$120,000
	Bus Terminal	\$3,000,000	
<b>Biscayne Enhanced</b>	6 Articulated buses	\$5,700,000	\$1,092,000
<b>TOTAL CAPITAL COST</b>		<b>\$58,825,000</b>	
<b>TOTAL ANNUAL O&amp;M</b>			<b>\$28,436,000</b>

\* Cost of park-and-ride lot at Miami Dade College is shown for programming purposes, but it is improbable that this project can occur during this time frame.

The capital costs are based upon the following unit costs:

- Bus stations                      \$150,000
- Articulated Bus                \$950,000
- 40' Hybrid Bus                 \$680,000

Table 5 summarizes the capital grants that are already programmed for the next 5 years. As can be seen the funds that have been programmed in the 2011 TIP do not match the current County priorities. When funding was set up while the County was pursuing BRT programs in the Biscayne and Flagler





# **APPENDIX H**

## **Existing Transit Line Ridership**



# METROBUS

## Boardings By Route

ROUTES	Average Weekday	Boardings By Day of Week			TOTAL Monthly Boardings
		Weekdays	Saturdays	Sundays	
35	2,666	53,319	5,868	4,429	63,616
36	2,697	53,947	6,156	4,592	64,695
37	3,727	74,530	13,119	11,649	99,298
38/500-BWMX/MIDN	7,004	140,088	27,516	24,214	191,818
40	2,161	43,211	4,540	3,415	51,166
42	1,817	36,349	5,638	4,903	46,890
46-LIBERTY CITY CONN	140	2,802	-	-	2,802
48	346	6,915	-	-	6,915
49	79	1,584	-	-	1,584
51-FLAGLER MAX	2,965	59,300	-	-	59,300
52	1,599	31,972	4,017	3,237	39,226
54	3,348	66,964	9,996	8,004	84,964
56	749	14,975	-	-	14,975
57	614	12,279	-	-	12,279
59	18	361	-	-	361
62	2,811	56,215	8,027	5,391	69,633
70	1,436	28,722	3,832	3,258	35,812
71	1,101	22,014	1,998	1,294	25,306
72	713	14,266	2,104	2,120	18,490
73	2,309	46,176	3,324	2,359	51,859
75	2,033	40,663	2,470	2,219	45,352
77	8,508	170,156	22,800	13,576	206,532
79	408	8,159	-	-	8,159
87	1,542	30,843	2,597	2,148	35,588
88	2,588	51,767	8,747	6,938	67,452
93 - BISCAYNE MAX	3,272	65,431	-	-	65,431

January, 2010

## METROBUS Boardings By Route

ROUTES	Average Weekday	Boardings By Day of Week			TOTAL Monthly Boardings
		Weekdays	Saturdays	Sundays	
95-EXPRESS	2,055	41,097	-	-	41,097
97 - 27 MAX	1,246	24,913	-	-	24,913
99	1,610	32,205	4,122	2,994	39,321
A	475	9,506	1,472	1,413	12,391
B	1,517	30,334	3,857	4,236	38,427
C	3,740	74,794	14,740	9,754	99,288
104	1,278	25,568	2,979	2,153	30,700
E	1,425	28,497	3,778	3,693	35,968
G	1,977	39,536	6,733	5,569	51,838
H	2,193	43,869	8,092	6,637	58,598
J	3,051	61,025	10,558	9,555	81,138
L	9,626	192,526	35,521	30,660	258,707
M	1,001	20,020	2,488	2,717	25,225
115	948	18,951	2,261	1,882	23,094
S	13,760	275,199	55,936	59,658	390,793
120-SOUTH BEACH MAX	5,536	110,721	21,036	17,029	148,786
123-SOUTH BEACH LOCAL	4,685	93,704	17,208	17,096	128,008
132 -TRI-RAIL DORAL	26	510	-	-	510
133 - TRI-RAIL AIRPORT	336	6,724	568	768	8,060
135	1,099	21,981	2,053	947	24,981
136	371	7,422	-	-	7,422
137-WEST DADE CONN	1,817	36,337	5,267	4,354	45,958
150-AIRPORT FLYER	680	13,590	3,544	3,928	21,062
183-183rd STREET MAX	3,436	68,717	9,665	7,724	86,106
195	540	2,700	-	-	2,700
202-LITTLE HAITI CONN	250	4,991	821	668	6,480
204 KAT-KILLIAN	1,306	26,122	-	-	26,122
207(7st)-LITTLE HAVANA CIRC	1,522	30,448	5,156	5,906	41,510
208(8st)-LITTLE HAVANA CIRC	1,666	33,318	5,205	4,883	43,406

January, 2010

## METROBUS Boardings By Route

ROUTES	Average Weekday	Boardings By Day of Week			TOTAL Monthly Boardings
		Weekdays	Saturdays	Sundays	
211-OVERTOWN CIRC	53	1,051	-	-	1,051
238-EAST/WEST CONN	477	9,534	-	-	9,534
243-SEAPORT CONN	52	1,038	-	-	1,038
246-NIGHT OWL	106	2,120	649	465	3,234
248-BRICKELL KEY	191	3,814	-	-	3,814
249-COCONUT GROVE	1,285	25,709	4,461	4,071	34,241
252-CORAL REEF	1,189	23,789	1,946	1,477	27,212
254-BROWNSVILLE CIRC	63	1,257	-	-	1,257
272 KAT-SUNSET	627	12,531	-	-	12,531
277-7Th AVENUE MAX	882	17,633	-	-	17,633
286-NORTH POINTE CIRC	81	1,618	173	-	1,791
287-SAGA BAY	429	8,573	-	-	8,573
288 KAT-KENDALL	481	9,627	-	-	9,627
344	167	3,339	-	-	3,339
GREEN HILLS SHUTTLE	6	24	-	-	24
KINGS CREEK SHUTTLE	8	32	-	-	32
SIERRA LAKES SHUTTLE	12	49	-	-	49
ROBERT SHARPE SHUTTLE	4	8	-	-	8
AHEPA SHUTTLE	19	74	-	-	74
Federation Gardens Shuttle	-	-	22	-	22
Special	-	-	-	-	0
Park n Ride	-	-	-	-	0
<b>TOTALS</b>	<b>218,357</b>	<b>4,358,244</b>	<b>620,315</b>	<b>520,405</b>	<b>5,498,964</b>

January, 2010

# METRORAIL

## Boardings By Stations

STATIONS	AVERAGE WEEKDAY	WEEKDAY BOARDINGS	SATURDAY BOARDINGS	SUNDAY BOARDINGS	NEW YEAR'S DAY BOARDINGS	MLK JR.'S B-DAY BOARDINGS	TOTAL BOARDINGS
Dadeland South	6,457	122,682	12,963	9,663	1,707	3,984	150,999
Dadeland North	6,016	114,307	10,144	7,880	1,199	3,146	136,676
South Miami	3,219	61,161	7,243	4,881	1,063	1,931	76,279
University	1,706	32,416	2,581	2,187	177	930	38,291
Douglas	3,758	71,407	7,405	5,616	953	2,307	87,688
Coconut Grove	1,706	32,421	4,621	3,388	592	1,234	42,256
Vizcaya	1,241	23,573	2,557	1,925	305	843	29,203
Brickell	3,588	68,178	7,509	5,411	999	2,330	84,427
Government Center	11,060	210,137	19,341	15,499	2,998	5,238	253,213
Overtown/Arena	1,258	23,900	1,969	1,531	350	536	28,286
Culmer	1,139	21,641	2,538	1,616	360	627	26,782
Civic Center	6,139	116,645	4,442	3,202	673	1,497	126,459
Santa Clara	660	12,539	1,777	1,110	202	511	16,139
Allapattah	1,667	31,679	4,386	3,006	626	1,234	40,931
Earlington Heights	1,322	25,111	3,508	2,468	552	903	32,542
Brownsville	898	17,071	2,557	1,892	451	1,184	23,155
Martin Luther King	1,349	25,636	3,437	2,210	460	1,443	33,186
Northside	1,559	29,618	4,375	3,086	542	987	38,608
Tri-Rail	1,606	30,506	3,448	2,735	428	1,222	38,339
Hialeah	1,573	29,895	3,792	2,525	444	1,177	37,833
Okeechobee	1,319	25,062	1,953	1,234	244	752	29,245
Palmetto	1,127	21,420	1,382	888	133	588	24,411
<b>Total</b>	<b>60,369</b>	<b>1,147,005</b>	<b>113,928</b>	<b>83,953</b>	<b>15,458</b>	<b>34,604</b>	<b>1,394,948</b>

January, 2010

**Table 3: Weekday Boardings by Station (July 2008)**

Station	AM Peak	PM Peak	Off Peak	Total Weekday	Rank
Mangonia Park	311	227	137	675	15
West Palm Beach	325	445	192	962	5
Lake Worth	424	215	178	817	10
Boynton Beach	379	185	132	696	14
Delray Beach	255	224	109	588	16
Boca Raton	251	599	135	985	4
Deerfield Beach	329	362	164	855	8
Pompano Beach	340	382	179	901	6
Cypress Creek	427	542	230	1199	2
Fort Lauderdale	441	428	248	1117	3
Fort Lauderdale Airport	301	353	237	891	7
Sheridan	390	191	122	703	13
Hollywood	327	289	206	822	9
Golden Glades	326	202	206	734	12
Opa-Locka	122	83	71	276	17
Tri Rail/Metrorail Transfer	408	1043	461	1912	1
Hialeah Market	88	98	45	231	18
Miami Airport	187	343	230	760	11
				15124	

**Comparison of Tri-Rail Boardings and Parking Utilization**

A comparison was made between weekday boardings and parking utilization data for July 2008. The data was used to determine a ratio of parking utilization per boarding at each station. As Table 4 indicates, the ratio of parking utilization per boarding for the Golden Glades Station is unrealistic, indicating that the 2008 parking utilization data do not distinguish Tri-Rail riders parking from non-Tri-Rail park-and-ride at the facilities. The low percentage of park-and-ride for the Tri-Rail/Metrorail Transfer station is understandable given the high rate of transfer between Tri-Rail and Metrorail.





# **APPENDIX I**

## **Existing Park-and-Ride Use**



## METROBUS Parking Patronage Summary

PARK-RIDE LOT	ACTUAL AVAILABLE SPACES	AVG.WEEKDAY COUNT	PERCENT OCCUPANCY	% CHANGE PREVIOUS YEAR	% CHANGE PREVIOUS MONTH
BUSWAY/SW 152nd ST.	126	102	81.0%	-27.7%	-22.7%
BUSWAY/SW 168TH STREET	149	157	105.4%	52.4%	63.5%
BUSWAY/SW 244TH STREET	95	70	73.7%	-18.6%	-12.5%
BUSWAY/SW 296TH STREET	139	34	24.5%	0.0%	-34.6%
CORAL REEF DRIVE 117/TURNPIKE	95	55	57.9%	-14.1%	-22.5%
GOLDEN GLADES-EAST LOT (effective 12/2009)	535	62	11.6%	N/A	-3.1%
GOLDEN GLADES-WEST LOT (effective 12/2009)	1,007	780	77.5%	-32.6%	-10.7%
HAMMOCKS TOWN CENTER (SW 152nd AVE./SW 104th ST.)	50	39	78.0%	-20.4%	-4.9%
TARGET (BUSWAY/SW 112 AVE.)	450	88	19.6%	N/A	-6.4%
TOTAL	2,646	1,387	52.4%	-15.1%	-7.7%

Note: Some park-ride lots are joint-use and the number of park-ride vehicles may exceed the number of spaces allocated.

January, 2010

15

## METRORAIL

### Parking Patronage Summary

STATION	WEEKDAY	PARKING SPACES	OCCUPANCY	PREVIOUS YEAR	PREVIOUS MONTH
DADELAND SOUTH	1,092	1,263	86%	N/A	-2.4%
DADELAND NORTH	1,799	1,975	91%	N/A	-2.1%
SOUTH MIAMI	949	1,774	54%	N/A	0.2%
UNIVERSITY	180	401	45%	N/A	-2.8%
DOUGLAS ROAD	213	226	94%	N/A	8.0%
COCONUT GROVE	142	204	70%	N/A	-5.6%
VIZCAYA	60	91	65%	N/A	6.6%
OVERTOWN	N/A	N/A	N/A	N/A	N/A
SANTA CLARA	52	61	85%	N/A	26.2%
ALLAPATTAH	13	66	20%	N/A	-3.6%
EARLINGTON HEIGHTS	42	95	44%	N/A	-0.2%
BROWNSVILLE	16	400	4%	N/A	2.6%
MARTIN LUTHER KING	276	616	45%	N/A	-7.9%
NORTHSIDE	206	282	73%	N/A	-7.3%
HIALEAH	180	321	56%	N/A	-0.5%
OKEECHOBEE	390	1,180	33%	N/A	7.1%
PALMETTO	354	710	50%	N/A	12.5%
<b>TOTAL</b>	<b>5,964</b>	<b>9,665</b>	<b>62%</b>	<b>N/A</b>	<b>-0.4%</b>

Note: No parking at Brickell, Government Center, Civic Center, Culmer and Tri-Rail stations. Overtown is under construction. Parking data from October 2007 to December 2008 were unavailable from contractor.



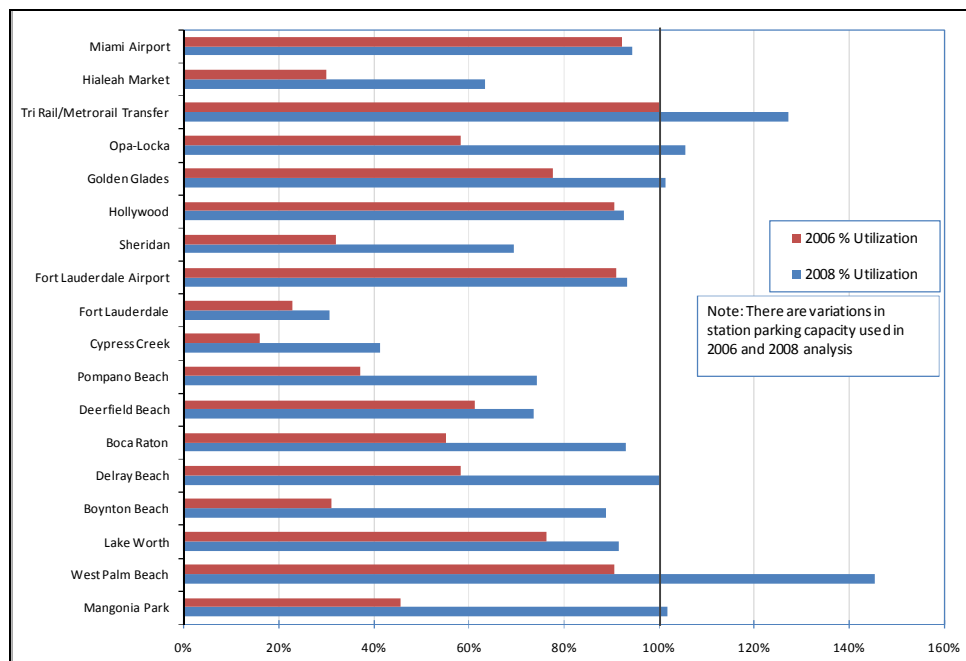
**Table 1: 2008 Tri-Rail Station Parking Capacity and Peak Utilization**

Station	Available Tri-Rail Spaces	Vehicles Observed	Overflow And Nearby Street Parking	Total	Utilization Rate	Status
Mangonia Park	272	272	5	277	102%	Over Capacity
West Palm Beach	114	111	55	166	146%	Over Capacity
Lake Worth	225	200	6	206	92%	Over Capacity
Boynton Beach	324	288	0	288	89%	Over Capacity
Delray Beach	129	127	2	129	100%	Over Capacity
Boca Raton	159	148	0	148	93%	Over Capacity
Deerfield Beach	236	159	15	174	74%	Approaching Capacity
Pompano Beach	259	193	0	193	75%	Approaching Capacity
Cypress Creek	560	232	0	232	41%	Space Available
Fort Lauderdale	875	276	1	277	32%	Space Available
Fort Lauderdale Airport Station	183	171	0	171	93%	Over Capacity
Sheridan Street	592	412	0	412	70%	Approaching Capacity
Hollywood	150	139	0	139	93%	Over Capacity
Golden Glades	1027	1025	16	1041	101%	Over Capacity
Opa-locka	72	69	7	76	106%	Over Capacity
MetroRail Transfer	44	43	13	56	127%	Over Capacity
Hialeah Market	123	78	0	78	63%	Space Available
Miami Airport	143	125	10	135	94%	Over Capacity
Total	5487	4068			74%	Approaching Capacity

Note: parking utilization in July 2008

### Comparison of 2006 and 2008 Station Parking Utilization

A comparison of the 2006 and 2008 parking utilization is presented in Figure 1 and Table 2. Both utilize data collected during the month of July.



**Figure 1: Comparison of 2006 and 2008 Station Parking Utilization**



# **APPENDIX J**

## **Construction Cost Calculation**





A. Calculate Number of Parking Spaces (if unknown) from land area

1. Convert acres to square feet of land: acres divided by 43,560 sf/acre = sf
2. Land area in sf divided by 350 sf/space\* = number of parking spaces

B Calculate construction cost of parking area

1. Construction cost per space: 350 sf x \$10 sf\* = cost per space = \$3,500/space
2. Parking area construction cost: number of spaces x \$3,500/space

\* Source: The Dimensions of Parking, Fifth Edition, ULI, 2009



# **APPENDIX K**

## **Site's Data Summary**



	Evaluation Parameters											
	A. Exist/Potential Use			B. Convenient Access		C. Implementation Ease		D. Cost				
Park and Ride Site	Route Patrons	Parking Patrons	Market Area	Transit Veh.	Patron	Mechanism	Permits	Land Area (sf)	Number Spaces	Constr. Cost	Land Cost	Total Cost
SDBW/SW 344 St (NW corner)	1468	High	Large	Good	Good	Land Acquis.	Good	NA	261	NA	NA	NA
SDBW/SW 200 St (Caribbean Blvd TOD)	1468	Medium	Medium	Good	Good	Indep/Shared	Good	NA	150	NA	NA	NA
SDBW/SW 186 St (Quail Roost TOD, 184-186)	1468	Medium	Medium	Good	Good	Indep/Shared	Good	NA	200	NA	NA	NA
Kendall Town Center (Kendall/SW 162 Av)	481	High	Large	Good	Good	Indep/Shared	Good	NA	40	NA	NA	NA
SW 127 Av/Kendall Dr (FPL, SE corner)	481	High	Medium	Good	Good	Public Land	Good	NA	181	\$633,500	NA	NA
Kendall Village Ctr (SW 85 St/124 Av)	481	High	Large	Good	Good	Lease	Good	NA	NA	NA	NA	NA
Douglas Road (under guideway)	3758	High	Medium	Good	Good	Expand Exist	Good	NA	50	NA	NA	NA
SW 8 St/147 Av (Surplus)	NA	High	Large	Good	Good	Public Land	Good	NA	200	\$700,000	NA	NA
Dolphin Sta. /Doral (NW 12 St/107 Av)	NA	High	Large	Average	Average	Indep/Shared	Good	NA	189	NA	NA	NA
SW 99 Ct/Flagler St (SE quad - church)	2965	Medium	Medium	Good	Good	Lease	Good	NA	NA	NA	NA	NA
NW 27 Av/215 St (County Line TOD)	1246	High	Large	Good	Good	Indep/Shared	Good	NA	500	NA	NA	NA
7th Av Transit Village (NW 62 St)	882	Low	Large	Good	Good	Indep/Shared	Good	NA	150	NA	NA	NA
Golden Glades	2055	Medium	Large	Good	Good	Expand Exist	Good	NA	NA	NA	NA	NA
Biscayne Blvd/NE 143 St (SE quad-Target)	3272	High	Medium	Good	Good	Lease	Good	NA	NA	NA	NA	NA
Biscayne Blvd/NE 107 St (NW quad-Kmart Lot)	3272	Medium	Medium	Good	Good	Lease	Good	NA	NA	NA	NA	NA
SDBW/SW 216 St (SE quadrant)	1468	Medium	Small	Good	Good	Land Acquis.	Good	87,556	250	\$875,556	\$789,570	\$1,665,126
Kendall/SW 150 Av	481	High	Medium	Good	Good	Lease	Good	NA	70	NA	NA	NA
SW 88 St/97 Av (SR 874, surplus)	481	High	Large	Good	Good	Public Land	Good	49,950	143	NA	NA	NA
Dadeland North (FEC)	6016	High	Medium	Good	Good	Public Land	Good	46,800	134	\$468,000	NA	NA
Douglas TOD	3758	High	Medium	Good	Good	Indep/Shared	Good	NA	NA	NA	NA	NA
Earlington Heights	1322	Low	Medium	Good	Good	Recovery	Good	NA	921	NA	NA	NA
Okeechobee(terminate lease to Telememundo)	1319	Low	Medium	Good	Good	Recovery	Good	NA	NA	NA	NA	NA
NW 137 Av/NW 6 St (660 ft s/o NW 6 St)	NA	High	Large	Good	Good	Land Acquis.	Average	107,158	306	\$1,071,576	\$860,192	\$1,931,768
I-195/Alton Rd (surplus)	680	High	Large	Good	Good	Public Land	Good	29,228	84	\$292,280	NA	NA
MDC North (NW 27 Av/119 St)	1246	Medium	Large	Good	Good	Lease	Good	NA	NA	NA	NA	NA
Biscayne Blvd/NE 163 St (NE quad)	3272	High	Medium	Good	Good	Lease	Average	NA	NA	NA	NA	NA
US-1/SW 280 St (NW quadrant - vacant)	1468	Medium	Medium	Good	Good	Land Acquis.	Good	138,956	397	\$1,389,564	\$271,915	\$1,661,479
US-1/SW 264 St (NW quadrant)	1468	Medium	Small	Good	Good	Lease	Good	NA	NA	NA	NA	NA
Southland Mall	NA	Medium	Medium	Fair	Good	Lease	Good	NA	NA	NA	NA	NA
Palmetto Bay MMC (SW 97 Av/Hibiscus St)	1468	Medium	Medium	Fair	Good	Indep/Shared	Good	NA	400	NA	NA	NA
Kendall South/Metrozoo	1189	Medium	Large	Fair	Average	Lease	Good	NA	NA	NA	NA	NA
SW 136 Ct/Sunset Dr (FPL, south side)	627	High	Large	Good	Good	Public Land	Average	NA	100	\$350,000	NA	NA
SW 127 Av/Killian Dr (FPL, south side)	1306	High	Medium	Good	Good	Public Land	Good	NA	100	\$350,000	NA	NA
SW 72 St/89 Av (SR 874, surplus)	627	High	Large	Good	Good	Public Land	Good	36,700	105	NA	NA	NA
SW 107 Av/Flagler St (SW quad-W.Flagler Plaza)	2965	Medium	Large	Good	Good	Lease	Good	NA	NA	NA	NA	NA
SR 826/W. Flagler St (Mall of the Americas)	2965	Medium	Large	Average	Good	Lease	Good	NA	NA	NA	NA	NA
TR Opa-Locka (museum)	71	High	Large	Good	Good	Lease	Good	NA	NA	NA	NA	NA
TR Opa-Locka (NE of museum)	71	Medium	Large	Good	Good	Land Acquis.	Good	NA	75	\$262,500	\$154,375	\$416,875
SR-826/N Bay Rd (Sunny Isles, surplus)	NA	Medium	Large	Poor	Poor	Public Land	Good	25,000	71	\$250,000	NA	NA
El Portal (Biscayne/NE 79 St, NE corner)	3272	Medium	Medium	Good	Good	Lease	Good	NA	NA	NA	NA	NA
Biscayne Blvd/NE 38 St (NW quad-vacant)	3272	Low	Small	Good	Good	Land Acquis.	Average	24,290	69	\$242,900	\$983,745	\$1,226,645





