Travel Time and Delay Study Field Summary
AM Peak

Roadway ID: Old Cutler Road
City: Palmetto Bay
Date: March 4 and April 11, 2008

Weather: Clear / Drizzling

Location: SW 168 Street to SW 87 Avenue (Southbound)
County: Miami-Dade
Observer: Christopher Benitez

Control Pt	Miles	Run Number 1 Travel Time	1 Delay	2 Travel Time	2 Delay	3 Travel Time	3 Delay	4 Travel Time	4 Delay	5 Travel Time	5 Delay	6 Travel Time	6 Delay	7 Travel Time	7 Delay	Avg. Travel Time	Avg. Travel Speed	Avg. Delay	Avg. Running Time	Avg. Running Speed
0 / 1	0.52	50	0	52	0	44	0	55	0	66	0	50	0	74	25	55.9	33.5	3.6	52.3	35.8
1 / 2	0.63	60	0	64	0	69	0	60	0	64	0	65	0	53	0	62.1	36.5	0.0	62.1	36.5
2 / 3	1.68	135	0	174	28	159	0	189	31	175	15	180	21	158	0	167.1	36.2	13.6	153.6	39.4
Totals	2.83	245	0	290	28	272	0	304	31	305	15	295	21	285	25					
Running Time		245		262		272		273		290		274		260						

Total Trip Length = 2.83 miles
Average Total Travel = 285.1 Secs.
Average Total Travel Speed = 35.7 mph
Average Total Trip Delay = 17.1 Secs.
Average Total Running Time = 268.0 Secs.
Average Total Running Speed = 38.0 mph

Location: SW 87 Avenue to SW 168 Street (Northbound)

Control Pt	Miles	Run Number 1 Travel Time	1 Delay	2 Travel Time	2 Delay	3 Travel Time	3 Delay	4 Travel Time	4 Delay	5 Travel Time	5 Delay	6 Travel Time	6 Delay	7 Travel Time	7 Delay	Avg. Travel Time	Avg. Travel Speed	Avg. Delay	Avg. Running Time	Avg. Running Speed
0 / 1	1.68	163	0	159	0	163	10	174	0	162	0	158	0	173	0	164.6	36.8	1.4	163.1	37.1
1 / 2	0.63	62	0	62	0	93	12	109	24	225	90	331	296	222	150	157.7	14.4	81.7	76.0	29.8
2 / 3	0.52	82	19	66	0	151	38	195	87	190	105	201	125	138	60	146.1	12.8	62.0	84.1	22.2
Totals	2.83	307	19	287	0	407	60	478	111											
Running Time		288		287		347		367		0		0		0						

Total Trip Length = 2.83 miles
Average Total Travel = 369.8 Secs.
Average Total Travel Speed = 27.6 mph
Average Total Trip Delay = 47.5 Secs.
Average Total Running Time = 184.1 Secs.
Average Total Running Speed = 55.3 mph

Travel Time and Delay Study Field Summary
PM Peak

Roadway ID: Old Cutler Road
City: Palmetto Bay
Date: February 28 and April 10, 2008 Weather: Clear

Location: SW 168 Street to SW 87 Avenue (Southbound)
County: Miami-Dade
Observer: Christopher Benitez

Control Pt	Miles	Run Number 1 Travel Time	1 Delay	2 Travel Time	2 Delay	3 Travel Time	3 Delay	4 Travel Time	4 Delay	5 Travel Time	5 Delay	6 Travel Time	6 Delay	7 Travel Time	7 Delay	Avg. Travel Time	Avg. Travel Speed	Avg. Delay	Avg. Running Time	Avg. Running Speed
0–1	0.52	80	13	62	0	72	6	53	0	55	0	66	0	50	0	62.6	29.9	2.7	59.9	31.3
1–2	0.63	65	0	69	0	65	0	56	0	60	0	64	0	65	0	63.4	35.8	0.0	63.4	35.8
2–3	1.68	175	22	181	0	168	11	165	6	189	31	175	15	180	21	176.1	34.3	15.1	161.0	37.6
Totals	2.83	320	35	312	0	305	17	274	6	304	31	305	15	295	21					
Running Time		285		312		288		268		273		290		274						

Total Trip Length =	2.83	miles	Average Total Travel =	302.1	Secs.
Average Total Trip Delay =	17.9	Secs.	Average Total Running Time =	284.3	Secs.

Average Total Travel Speed =	33.7	mph
Average Total Running Speed =	35.8	mph

Location: SW 87 Avenue to SW 168 Street (Northbound)

Control Pt	Miles	Run Number 1 Travel Time	1 Delay	2 Travel Time	2 Delay	3 Travel Time	3 Delay	4 Travel Time	4 Delay	5 Travel Time	5 Delay	6 Travel Time	6 Delay	7 Travel Time	7 Delay	Avg. Travel Time	Avg. Travel Speed	Avg. Delay	Avg. Running Time	Avg. Running Speed
0–1	1.68	152	0	147	0	140	0	164	0	161	0	151	0	145	0	151.4	39.9	0.0	151.4	39.9
1–2	0.63	54	0	83	20	50	0	76	15	61	0	94	24	63	0	68.7	33.0	8.4	60.3	37.6
2–3	0.52	63	6	55	0	42	0	54	0	51	0	55	0	52	0	53.1	35.2	0.9	52.3	35.8
Totals	2.83	269	6	285	20	232	0	294	15	273	0	300	24	260	0					
Running Time		263		265		232		279		273		276		260						

Total Trip Length =	2.83	miles	Average Total Travel =	273.3	Secs.
Average Total Trip Delay =	9.3	Secs.	Average Total Running Time =	264.0	Secs.

Average Total Travel Speed =	37.3	mph
Average Total Running Speed =	38.6	mph

ART_PLAN ANALYSIS

AM PEAK

Palmer Trinity Traffic Study
AM Peak Direction ArtPlan Calculations
Old Cutler Road between SW 176 Street & SW 184 Street

From AM Segment Volumes Spreadsheet

1 -	AADT	18,014
2 -	K Factor	11.3%
3 -	D Factor	72.5%

Existing Conditions (NB) as of April 11, 2008, when the field surveys were taken

Intersection	Signalized / Unsignalized	Heavy Green	Yellow	All Red	Cycle Length	g/c (G+Y+R) - 4 / Cycle Length	PHF	D Factor
Old Cutler Rd & SW 176 St	S	30	4	1	65	0.48	0.79	67%

Future with Project Conditions (NB) based on the improved signal timing

Intersection	Signalized / Unsignalized	Heavy Green	Yellow	All Red	Cycle Length	g/c (G+Y+R) - 4 / Cycle Length	PHF	D Factor
Old Cutler Rd & SW 176 St	S	89	4	1	120	0.75	0.79	56%

ARTPLAN 2002 Conceptual Planning Analysis

Description/File Information

Filename	W:\04\04211\cb\Traffic Study 2008 \artplan\existing\AP_AM_Old Cutler_NB.xml	**Date Prepared**	3/12/2008		
Program	ARTPLAN	**Version**	5.2.0		
Analyst	DPA	**Agency**		**District**	
Arterial Name	Old Cutler Rd	**Begin Intersection**	SW 184 Street	**End Intersection**	SW 176 Street
Study Period	Kother	**Peak Direction**	Northbound		
User Notes	Existing AM Peak				

Facility Data

Roadway Variables		Traffic Variables		Control Variables		Multimodal Variables	
Area Type	Urbanized	**AADT**	18014	**Arrival Type**	4	**Paved Shoulder/Bike Lane**	No
Class	2	**K**	0.113	**Signals/Mile**	1.00	**Outside Lane Width**	Typical
Posted Speed	40	**D**	0.67	**Cycle Length**	120	**Pavement Condition**	Typical
# Thru Lanes	2	**PHF**	0.79	**Through g/C**	0.5	**Sidewalk**	Yes
Median Type	None	**% Turns Excl. Lanes**	0	**Control Type**	Semiactuated	**Sidewalk/Roadway Separation**	Typical
Left Turn Lanes	No	**% Heavy Vehicles**	2			**Sidewalk/Roadway Protective Barrier**	No
		Base Sat Flow Rate	1900			**Obstacle to Bus Stop**	No
		Local Adj. Factor	0.98			**Bus Freq**	1
		Adjusted Sat Flow Rate	1387			**Bus Span Of Service**	15

Automobile Segment Data

Segment #	Cycle Length	g/C	Arr. Type	% Turns	# Dir. Lanes	Length	AADT	Hourly Vol.	FFS	Median Type
1 (to SW 176 Street)	65	0.48	4	0	1	0.625	10706	871	45	None

Automobile LOS

Segment #	Thru Mvmt Flow Rate	v/c	Control Delay	Int. Approach LOS	Speed (mph)	Segment LOS
1 (to SW 176 Street)	1103	1.66	309.61	F	6.1	F

Arterial Length	0.6	Auto Speed	****	Auto LOS	F

Automobile Service Volume Tables

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	300	530	500	600	650
2	690	1070	1130	1200	1300
3	1100	1610	1700	1800	1940
4	1510	2150	2260	2400	2590
*	300	530	500	600	650
Lanes	**Hourly Volume In Both Directions**				
2	440	790	750	890	970
4	1030	1600	1690	1790	1930
6	1640	2410	2530	2690	2900
8	2260	3210	3380	3590	3870
*	440	790	750	890	970
Lanes	**Annual Average Daily Traffic**				
2	3900	7000	6600	7900	8500
4	9100	14200	14900	15800	17100
6	14500	21300	22400	23800	25700
8	20000	28500	29900	31700	34200
*	3900	7000	6600	7900	8500

Multimodal Segment Data

Segment #	Pave Shldr /Bike Lane	Outside Lane Width	Pave Cond	Side walk	Sidewalk Roadway Separation	Sidewalk Roadway Protective Barrier	Obstacle To Bus Stop	Bus Freq	Bus Span Service
1 (to SW 176 Street)	No	Typical	Typical	Yes	Typical	No	No	1	15

Pedestrian SubSegment Data

	% of Segment			Sidewalk			Separation			Barrier		
Segment #	1	2	3	1	2	3	1	2	3	1	2	3
1 (to SW 176 Street)	100			Yes			Typical			No		

Multimodal LOS

	Bicycle LOS		Pedestrian LOS					Bus LOS	
Segment #	Segment	Score	1	2	3	Segment	Score	Segment	Adj.Bus
1 (to SW 176 Street)	E	4.67	E			E	4.60	F	0.85

Bicycle LOS	4.67	E	Pedestrian LOS	4.60	E	Bus LOS	.85	F

MultiModal Service Volume Tables

Bicycle

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	**	**	**	**	**
2	**	**	**	**	**
3	**	**	**	**	**
4	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Hourly Volume In Both Directions**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Annual Average Daily Traffic**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**

Pedestrian

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	**	**	**	**	**
2	**	**	**	**	**
3	**	**	**	**	**
4	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Hourly Volume In Both Directions**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Annual Average Daily Traffic**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**

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