

TABLE S4.1a
Year 2008 Seminole County Travel Time & Delay Study
SR 436 (Part A) - Eastbound Direction Summary

Roadway Segment	Speed	Distance (ft)	Traffic Control Device	Travel Time (sec)	Stop Delay (sec)	Roadway Class	Roadway Segment		Roadway Section		Roadway Summary	
	Limit (mph)						Average Speed		Average Speed		Avg. Speed (mph)	Avg. Fuel Consump.
							(mph)	LOS	(mph)	LOS		
AM PEAK HOUR - Part A												
County Line to Line Drive	45	152	Signal	6.7	3.8	II	15.5	E				
Line Drive to Balmy Beach Road	45	1,401	Signal	29.0	8.7	II	32.9	B				
Balmy Beach Road to Hunt Club Road	45	1,812	Signal	41.7	14.5	II	29.7	B	29.7	B		
Hunt Club Road to Bear Lake Road	45	2,083	Signal	33.8	3.2	II	42.0	A	42.0	A		
Bear Lake Road to Post Lake Place	45	2,383	Signal	34.5	0.2	II	47.1	A				
Post Lake Place to West Lake Brantley Road	45	1,848	Signal	29.0	1.2	II	43.4	A				
West Lake Brantley Road to Pearl Lake Cswy	45	1,332	Signal	21.7	1.7	II	41.9	A				
Pearl Lake Causeway to Lake Harriet Drive	45	1,179	Signal	17.5	0.5	II	45.9	A				
Lake Harriet Drive to SR 434	45	1,437	Signal	47.8	25.8	II	20.5	D	37.1	A		
SR 434 to San Sebastian Prado	45	1,559	Signal	23.7	0.8	II	44.9	A				
San Sebastian Prado to Weathersfield Ave.	45	2,825	Signal	55.2	12.8	II	34.9	B				
Weathersfield Ave. to Montgomery Road	45	1,192	Signal	47.0	28.3	II	17.3	D				
Montgomery Road to Lynchfield Ave.	45	1,256	Signal	38.2	18.5	II	22.4	C	28.4	B		
Lynchfield Ave to Grace Blvd	45	626	Signal	13.3	3.5	II	32.0	B				
Grace Blvd to Westmonte Drive	45	1,098	Signal	43.0	26.0	II	17.4	D				
Westmonte Drive to Wymore/Douglas Road	45/35	1,047	Signal	62.7	46.7	II	11.4	F	15.9	E		
Wymore/Douglas Road to I-4 West Ramps	35	367	Signal	8.7	2.7	II	28.9	B				
I-4 West Ramps to I-4 East Ramps	35	409	Signal	7.5	1.0	II	37.2	A	32.7	B		
I-4 East Ramps to Northlake Blvd.	35/45	1,094	Signal	26.3	9.5	II	28.3	B	28.3	B		
TOTAL		25,100		587.2	209.3						29.1	0.27 gal/veh
PM PEAK HOUR - Part A												
County Line to Line Drive	45	147	Signal	3.1	0.7	II	31.9	B				
Line Drive to Balmy Beach Road	45	1,406	Signal	34.7	13.4	II	27.6	C				
Balmy Beach Road to Hunt Club Road	45	1,817	Signal	39.1	11.7	II	31.6	B	29.8	B		
Hunt Club Road to Bear Lake Road	45	2,059	Signal	32.0	1.4	II	43.9	A	43.9	A		
Bear Lake Road to Post Lake Place	45	2,387	Signal	55.3	18.6	II	29.4	B				
Post Lake Place to West Lake Brantley Road	45	1,852	Signal	45.3	17.3	II	27.9	C				
West Lake Brantley Road to Pearl Lake Cswy	45	1,333	Signal	38.9	18.4	II	23.4	C				
Pearl Lake Causeway to Lake Harriet Drive	45	1,176	Signal	19.1	1.4	II	41.9	A				
Lake Harriet Drive to SR 434	45	1,428	Signal	140.6	118.6	II	6.9	F	18.6	D		
SR 434 to San Sebastian Prado	45	1,547	Signal	26.4	2.4	II	39.9	A				
San Sebastian Prado to Weathersfield Ave.	45	2,849	Signal	54.3	11.0	II	35.8	A				
Weathersfield Ave. to Montgomery Road	45	1,191	Signal	42.0	23.9	II	19.3	D				
Montgomery Road to Lynchfield Ave.	45	1,248	Signal	29.0	9.9	II	29.3	B	30.7	B		
Lynchfield Ave to Grace Blvd	45	624	Signal	18.3	8.3	II	23.3	C				
Grace Blvd to Westmonte Drive	45	1,098	Signal	47.9	31.0	II	15.6	E				
Westmonte Drive to Wymore/Douglas Road	45/35	1,051	Signal	140.3	124.1	II	5.1	F	9.2	F		
Wymore/Douglas Road to I-4 West Ramps	35	376	Signal	19.3	13.4	II	13.3	E				
I-4 West Ramps to I-4 East Ramps	35	397	Signal	8.1	1.9	II	33.2	B	19.2	D		
I-4 East Ramps to Northlake Blvd.	35/45	1,101	Signal	71.6	54.9	II	10.5	F	10.5	F		
TOTAL		25,087		865.3	482.3						19.8	0.32 gal/veh

TABLE S4.1b
Year 2008 Seminole County Travel Time & Delay Study
SR 436 (Part B) - Eastbound Direction Summary

Roadway Segment	Speed Limit (mph)	Distance (ft)	Traffic Control Device	Travel Time (sec)	Stop Delay (sec)	Roadway Class	Roadway Segment		Roadway Section		Roadway Summary	
							Average Speed		Average Speed		Avg. Speed (mph)	Avg. Fuel Consump.
							(mph)	LOS	(mph)	LOS		
AM PEAK HOUR - Part B												
Northlake Blvd. to Hattaway Drive	40	601	Signal	19.4	8.9	II	21.1	D				
Hattaway Drive to Renaissance Drive	40	732	Signal	12.7	0.4	II	39.3	A				
Renaissance Drive to Essex Ave.	40	657	Signal	19.4	8.7	II	23.1	C				
Essex Ave. to Mall Entrance	40	664	Signal	14.1	2.7	II	32.0	B				
Mall Entrance to Palm Springs Dr.	40	632	Signal	16.6	5.6	II	26.0	C	27.2	C		
Palm Springs Dr. to Boston Ave.	40	974	Signal	17.1	0.6	II	38.7	A				
Boston Ave. to CR 427 (Maitland Ave)	40	1,755	Signal	44.0	14.4	II	27.2	C	30.4	B		
CR 427 (Maitland Ave) to CR 427 (Ronald Regan Blvd.)	40	2,506	Signal	47.3	6.0	II	36.1	A	36.1	A		
CR 427 (Ronald Regan Blvd.) to Prarie Lake Plaza	40	1,583	Signal	29.1	2.6	II	37.0	A				
Prarie Lake Plaza to Anchor Road	40	2,395	Signal	46.1	7.6	II	35.4	A				
Anchor Road to US 17-92	40	1,532	Signal	107.0	80.6	II	9.8	F	20.6	D		
US 17-92 to Plaza Entrance	40	930	Signal	19.1	3.0	II	33.1	B				
Plaza Entrance to Oxford Road	40	533	Signal	9.4	0.4	II	38.5	A				
Oxford Road to Fern Park Blvd.	40/45	1,203	Signal	19.0	0.1	II	43.2	A				
Fern Park Blvd. to Wilshire Blvd.	45	2,829	Signal	57.3	13.7	II	33.7	B				
Wilshire Blvd. to Kewanee Trail	45	1,376	Signal	41.1	17.4	II	22.8	C				
Kewanee Trail to Red Bug Lake Road	45	1,045	Signal	32.6	14.3	II	21.9	D	30.2	B		
Red Bug Lake Road to Sausalito Road	45	905	Signal	14.3	0.1	II	43.2	A				
Sausalito Road to Lake Howell Road	45/50	1,815	Signal	28.9	1.1	I	42.9	A	43.0	A		
Lake Howell Road to Lake Howell Square	50	1,340	Signal	27.7	5.3	I	33.0	C				
Lake Howell Square to Lake Howell Lane	50	1,353	Signal	20.9	0.0	I	44.2	A				
Lake Howell Lane to Howell Branch Road	50	2,818	Signal	85.1	36.6	I	22.6	D	28.1	C		
Howell Branch Road to Winter Woods Road	50	2,537	Signal	62.0	18.3	I	27.9	C				
Winterwoods Road to Casselton Road	50	2,789	Signal	66.4	21.3	I	28.6	C				
Casselton Road to Orange County Line	50	396	Stop	6.7	0.4	I	40.2	B	28.9	C		
TOTAL		35,900		863.6	270.1						28.3	0.40 gal/veh
PM PEAK HOUR - Part B												
Northlake Blvd. to Hattaway Drive	40	577	Signal	12.2	2.3	II	32.3	B				
Hattaway Drive to Renaissance Drive	40	746	Signal	30.2	17.5	II	16.9	E				
Renaissance Drive to Essex Ave.	40	653	Signal	33.5	22.3	II	13.3	E				
Essex Ave. to Mall Entrance	40	678	Signal	14.2	2.5	II	32.6	B				
Mall Entrance to Palm Springs Dr.	40	668	Signal	27.5	15.7	II	16.6	E	19.3	D		
Palm Springs Dr. to Boston Ave.	40	934	Signal	20.2	4.7	II	31.6	B				
Boston Ave. to CR 427 (Maitland Ave)	40	1,667	Signal	54.5	25.8	II	20.9	D	23.8	C		
CR 427 (Maitland Ave) to CR 427 (Ronald Regan Blvd.)	40	2,494	Signal	86.5	44.8	II	19.7	D	19.7	D		
CR 427 (Ronald Regan Blvd.) to Prarie Lake Plaza	40	1,587	Signal	28.7	1.8	II	37.7	A				
Prarie Lake Plaza to Anchor Road	40	2,411	Signal	49.8	10.0	II	33.0	B				
Anchor Road to US 17-92	40	1,525	Signal	65.0	38.8	II	16.0	E	26.2	C		
US 17-92 to Plaza Entrance	40	945	Signal	21.2	5.2	II	30.4	B				
Plaza Entrance to Oxford Road	40	510	Signal	10.2	1.3	II	34.2	B				
Oxford Road to Fern Park Blvd.	40/45	1,208	Signal	20.2	0.5	II	40.8	A				
Fern Park Blvd. to Wilshire Blvd.	45	2,831	Signal	80.5	34.3	II	24.0	C				
Wilshire Blvd. to Kewanee Trail	45	1,376	Signal	34.2	10.2	II	27.5	C				
Kewanee Trail to Red Bug Lake Road	45	1,057	Signal	35.8	17.8	II	20.1	D	26.8	C		
Red Bug Lake Road to Sausalito Road	45	879	Signal	23.3	10.0	II	25.7	C				
Sausalito Road to Lake Howell Road	45/50	1,814	Signal	43.7	14.2	I	28.3	C	27.4	C		
Lake Howell Road to Lake Howell Square	50	1,341	Signal	31.7	9.7	I	28.9	C				
Lake Howell Square to Lake Howell Lane	50	1,358	Signal	20.7	0.0	I	44.8	A				
Lake Howell Lane to Howell Branch Road	50	2,825	Signal	94.7	47.8	I	20.3	E	25.6	D		
Howell Branch Road to Winter Woods Road	50	2,539	Signal	95.8	52.5	I	18.1	E				
Winterwoods Road to Casselton Road	50	2,779	Signal	59.3	15.7	I	31.9	C				
Casselton Road to Orange County Line	50	380	Stop	5.2	0.2	I	50.1	A	24.2	D		
TOTAL		35,782		998.5	405.7						24.4	0.42 gal/veh

TABLE S4.2a
Year 2008 Seminole County Travel Time & Delay Study
SR 436 (Part A) - Westbound Direction Summary

Roadway Segment	Speed	Distance (ft)	Traffic Control Device	Travel Time (sec)	Stop Delay (sec)	Roadway Class	Roadway Segment		Roadway Section		Roadway Summary	
	Limit (mph)						Average Speed (mph)	LOS	Average Speed (mph)	LOS	Avg. Speed (mph)	Avg. Fuel Consump.
AM PEAK HOUR - Part A												
Northlake Blvd. to I-4 East Ramp	45/35	1,190	Signal	39.8	21.5	II	20.4	D	20.4	D		
I-4 East Ramp to I-4 West Ramp	35	409	Signal	24.5	18.3	II	11.4	F				
I-4 West Ramp to Wymore/Douglas Road	35	354	Signal	21.0	15.0	II	11.5	F	11.4	F		
Wymore/Douglas Road to Westmonte Drive	35/45	1,059	Signal	18.0	1.8	II	40.1	A				
Westmonte Drive to Grace Blvd	45	1,083	Signal	16.7	1.0	II	44.3	A				
Grace Blvd to Lynchfield Drive	45	681	Signal	10.5	0.3	II	44.2	A	42.6	A		
Lynchfield Drive to Montgomery Road	45	1,147	Signal	31.5	13.7	II	24.8	C				
Montgomery Road to Weathersfield Drive	45	1,287	Signal	22.0	2.2	II	39.9	A				
Weathersfield Drive to San Sabastian Prado	45	2,818	Signal	43.3	3.8	II	44.3	A				
San Sebastian Prado to SR 434	45	1,439	Signal	80.3	58.3	II	12.2	F	25.7	C		
SR 434 to Lake Harriet Road	45	1,555	Signal	36.0	12.0	II	29.4	B				
Lake Harriet Road to Pearl Lake Causeway	45	1,159	Signal	22.0	4.0	II	35.9	A				
Pearl Lake Causeway to West Lake Brantley Road	45	1,362	Signal	30.2	10.3	II	30.8	B				
West Lake Brantley Road to Post Lake Place	45	1,782	Signal	24.0	0.0	II	50.6	A				
Post Lake Place to Bear Lake Road	45	2,448	Signal	49.7	13.0	II	33.6	B	35.0	B		
Bear Lake Road to Hunt Club Road	45	1,985	Signal	53.0	23.3	II	25.5	C	25.5	C		
Hunt Club Road to Balmy Beach Road	45	1,831	Signal	28.8	1.3	II	43.3	A				
Balmy Beach Road to Line Drive	45	1,494	Signal	19.3	0.0	II	52.7	A	47.1	A		
TOTAL		25,083		570.7	200.0						30.0	0.28 gal/veh
PM PEAK HOUR - Part A												
Northlake Blvd. to I-4 East Ramp	45/35	1,122	Signal	126.7	109.7	II	6.0	F	6.0	F		
I-4 East Ramp to I-4 West Ramp	35	403	Signal	18.6	12.3	II	14.8	E				
I-4 West Ramp to Wymore/Douglas Road	35	355	Signal	19.9	14.0	II	12.2	F	13.4	E		
Wymore/Douglas Road to Westmonte Drive	35/45	1,051	Signal	47.9	31.6	II	15.0	E				
Westmonte Drive to Grace Blvd	45	1,106	Signal	29.7	12.6	II	25.4	C				
Grace Blvd to Lynchfield Drive	45	663	Signal	19.4	9.1	II	23.3	C	19.8	D		
Lynchfield Drive to Montgomery Road	45	1,162	Signal	49.4	31.4	II	16.0	E				
Montgomery Road to Weathersfield Drive	45	1,282	Signal	26.1	6.1	II	33.4	B				
Weathersfield Drive to San Sabastian Prado	45	2,809	Signal	58.3	16.3	II	32.9	B				
San Sebastian Prado to SR 434	45	1,452	Signal	115.7	93.7	II	8.6	F	18.3	D		
SR 434 to Lake Harriet Road	45	1,535	Signal	30.4	7.0	II	34.4	B				
Lake Harriet Road to Pearl Lake Causeway	45	1,172	Signal	24.1	6.1	II	33.1	B				
Pearl Lake Causeway to West Lake Brantley Road	45	1,340	Signal	41.0	20.6	II	22.3	C				
West Lake Brantley Road to Post Lake Place	45	1,775	Signal	28.1	1.4	II	43.0	A				
Post Lake Place to Bear Lake Road	45	2,456	Signal	56.1	18.7	II	29.8	B	31.4	B		
Bear Lake Road to Hunt Club Road	45	1,997	Signal	60.6	30.4	II	22.5	C	22.5	C		
Hunt Club Road to Balmy Beach Road	45	1,813	Signal	41.0	14.1	II	30.1	B				
Balmy Beach Road to Line Drive	45	1,467	Signal	20.0	0.1	II	50.0	A	36.7	A		
TOTAL		24,960		813.1	435.4						20.9	0.30 gal/veh

TABLE S4.2b
Year 2008 Seminole County Travel Time & Delay Study
SR 436 (Part B) - Westbound Direction Summary

Roadway Segment	Speed Limit (mph)	Distance (ft)	Traffic Control Device	Travel Time (sec)	Stop Delay (sec)	Roadway Class	Roadway Segment		Roadway Section		Roadway Summary	
							Average Speed		Average Speed		Avg. Speed (mph)	Avg. Fuel Consump.
							(mph)	LOS	(mph)	LOS		
AM PEAK HOUR - Part B												
County Line to Casselton Road	50	418	Signal	16.4	9.6	I	17.3	E				
Casselton Road to Winterwoods Road	50	2,799	Signal	46.7	3.1	I	40.9	B				
Winterwoods Road to Howell Branch Road	50	2,439	Signal	68.3	28.9	I	24.4	D	29.3	C		
Howell Branch Road to Lake Howell Lane	50	2,873	Signal	43.4	0.9	I	45.1	A				
Lake Howell Lane to Lake Howell Square	50	1,396	Signal	19.7	0.0	I	48.3	A				
Lake Howell Square to Lake Howell Road	50	1,298	Signal	27.9	8.7	I	31.8	C	41.7	B		
Lake Howell Road to Sausalito Road	50/45	1,840	Signal	38.9	9.0	I	32.3	C				
Sausalito Road to Red Bug Lake Road	45	914	Signal	55.0	39.4	II	11.3	F	20.0	D		
Red Bug Lake Road to Kewanee Trail	45	1,057	Signal	19.1	1.0	II	37.6	A				
Kewanee Trail to Wilshire Blvd.	45	1,404	Signal	21.7	0.1	II	44.1	A				
Wilshire Blvd. to Fern Park Blvd.	45	2,867	Signal	50.6	5.4	II	38.7	A				
Fern Park Blvd. to Oxford Road	45/40	1,178	Signal	72.3	52.0	II	11.1	F				
Oxford Road to Plaza Entrance	40	533	Signal	10.7	1.1	II	33.9	B				
Plaza Entrance to US 17-92	40	822	Signal	59.1	45.9	II	9.5	F	22.9	C		
US 17-92 to Anchor Road	40	1,686	Signal	27.3	0.1	II	42.1	A				
Anchor Road to Prarie Lake Drive	40	2,417	Signal	41.7	2.4	II	39.5	A				
Prarie Lake Drive to CR 427 (Ronald Regan Blvd.)	40	1,522	Signal	90.4	64.4	II	11.5	F	24.1	C		
CR 427 (Ronald Regan Blvd.) to CR 427 (Maitland Ave.)	40	2,546	Signal	48.3	4.4	II	35.9	A	35.9	A		
CR 427 (Maitland Ave.) to Boston Ave.	40	1,737	Signal	40.4	11.3	II	29.3	B				
Boston Ave. to Palm Springs Drive	40	944	Signal	22.0	6.9	II	29.3	B	29.3	B		
Palm Springs Drive to Mall Entrance	40	662	Signal	10.9	0.1	II	41.6	A				
Mall Entrance to Essex Drive	40	651	Signal	19.0	8.3	II	23.4	C				
Essex Drive to Renaissance Drive	40	695	Signal	12.1	1.0	II	39.0	A				
Renaissance Drive to Hattaway Drive	40	690	Signal	24.4	12.4	II	19.3	D				
Hattaway Drive to Northlake Blvd.	40	623	Signal	46.6	35.9	II	9.1	F	20.0	D		
TOTAL		36,011		933.0	352.4						26.3	0.44 gal/veh
PM PEAK HOUR - Part B												
County Line to Casselton Road	50	431	Signal	13.9	7.0	I	21.2	D				
Casselton Road to Winterwoods Road	50	2,791	Signal	54.3	12.1	I	35.0	B				
Winterwoods Road to Howell Branch Road	50	2,436	Signal	102.3	62.1	I	16.2	E	22.6	D		
Howell Branch Road to Lake Howell Lane	50	2,866	Signal	66.9	20.0	I	29.2	C				
Lake Howell Lane to Lake Howell Square	50	1,408	Signal	45.2	22.0	I	21.2	D				
Lake Howell Square to Lake Howell Road	50	1,292	Signal	34.2	13.4	I	25.7	D	25.9	D		
Lake Howell Road to Sausalito Road	50/45	1,833	Signal	50.0	19.8	I	25.0	D				
Sausalito Road to Red Bug Lake Road	45	937	Signal	36.9	21.0	II	17.3	D	21.7	D		
Red Bug Lake Road to Kewanee Trail	45	1,048	Signal	19.0	1.6	II	37.6	A				
Kewanee Trail to Wilshire Blvd.	45	1,403	Signal	22.7	0.1	II	42.2	A				
Wilshire Blvd. to Fern Park Blvd.	45	2,847	Signal	64.1	16.8	II	30.3	B				
Fern Park Blvd. to Oxford Road	45/40	1,196	Signal	45.9	25.1	II	17.8	D				
Oxford Road to Plaza Entrance	40	523	Signal	12.9	3.7	II	27.7	C				
Plaza Entrance to US 17-92	40	829	Signal	48.6	34.0	II	11.6	F	25.1	C		
US 17-92 to Anchor Road	40	1,688	Signal	27.8	0.3	II	41.4	A				
Anchor Road to Prarie Lake Drive	40	2,407	Signal	59.1	18.9	II	27.8	C				
Prarie Lake Drive to CR 427 (Ronald Regan Blvd.)	40	1,528	Signal	72.6	46.0	II	14.4	E	24.0	C		
CR 427 (Ronald Regan Blvd.) to CR 427 (Maitland Ave.)	40	2,535	Signal	65.7	21.9	II	26.3	C	26.3	C		
CR 427 (Maitland Ave.) to Boston Ave.	40	1,729	Signal	47.8	17.9	II	24.7	C				
Boston Ave. to Palm Springs Drive	40	939	Signal	75.9	60.0	II	8.4	F	14.7	E		
Palm Springs Drive to Mall Entrance	40	668	Signal	22.2	10.6	II	20.5	D				
Mall Entrance to Essex Drive	40	648	Signal	29.2	18.0	II	15.1	E				
Essex Drive to Renaissance Drive	40	693	Signal	41.0	29.1	II	11.5	F				
Renaissance Drive to Hattaway Drive	40	699	Signal	29.1	17.1	II	16.4	E				
Hattaway Drive to Northlake Blvd.	40	611	Signal	62.4	52.2	II	6.7	F	12.3	F		
TOTAL		35,985		1,149.7	550.7						21.3	0.46 gal/veh