

Draft Report
COMPOSITE STUDY
For
Conroy Road at I-4 WB Ramp

Study #4
Work Order #5
Sequence #1

ORANGE COUNTY
SECTION 75280
MP 12.300

Prepared for:

THE FLORIDA DEPARTMENT OF TRANSPORTATION

Districtwide Continuing Services for Traffic Signal System Retiming
and Traffic Engineering Studies
Financial Project No. 237974-1-32-09
Contract C8D20

Prepared by:

GMB ENGINEERS & PLANNERS, INC.
Orlando, FL

February 2005

Professional Engineer: Dante A. Gabriel
P.E. #37271
February 15, 2005

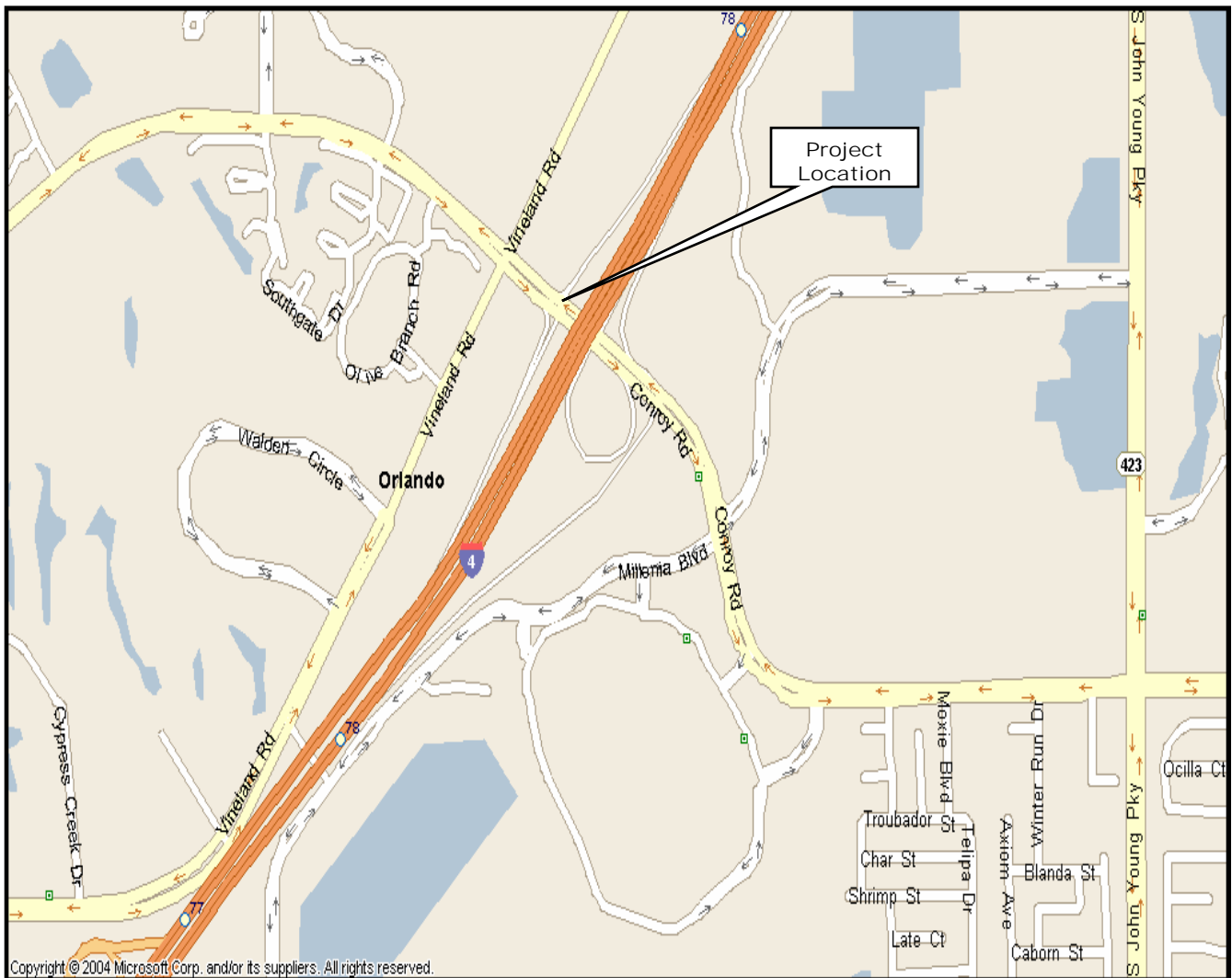


Figure 1

GMB Engineers & Planners, Inc.

Location Map for I-4 Westbound Ramp at Conroy Road
Orlando, Orange County

Conroy Road and I-4 Westbound Ramp
West Approach



Exhibit 1: Looking east into the intersection along Conroy Road



Exhibit 2: Looking west from the intersection along Conroy Road

Conroy Road and I-4 Westbound Ramp
East Approach



Exhibit 3: Looking west into the intersection along Conroy Road



Exhibit 4: Looking east from the intersection along Conroy Road

Conroy Road and I-4 Westbound Ramp
South Approach



Exhibit 5: Looking north into the intersection along I-4 WB Ramp



Exhibit 6: Looking south from the intersection along I-4 WB Ramp

Conroy Road and I-4 Westbound Ramp
North Approach



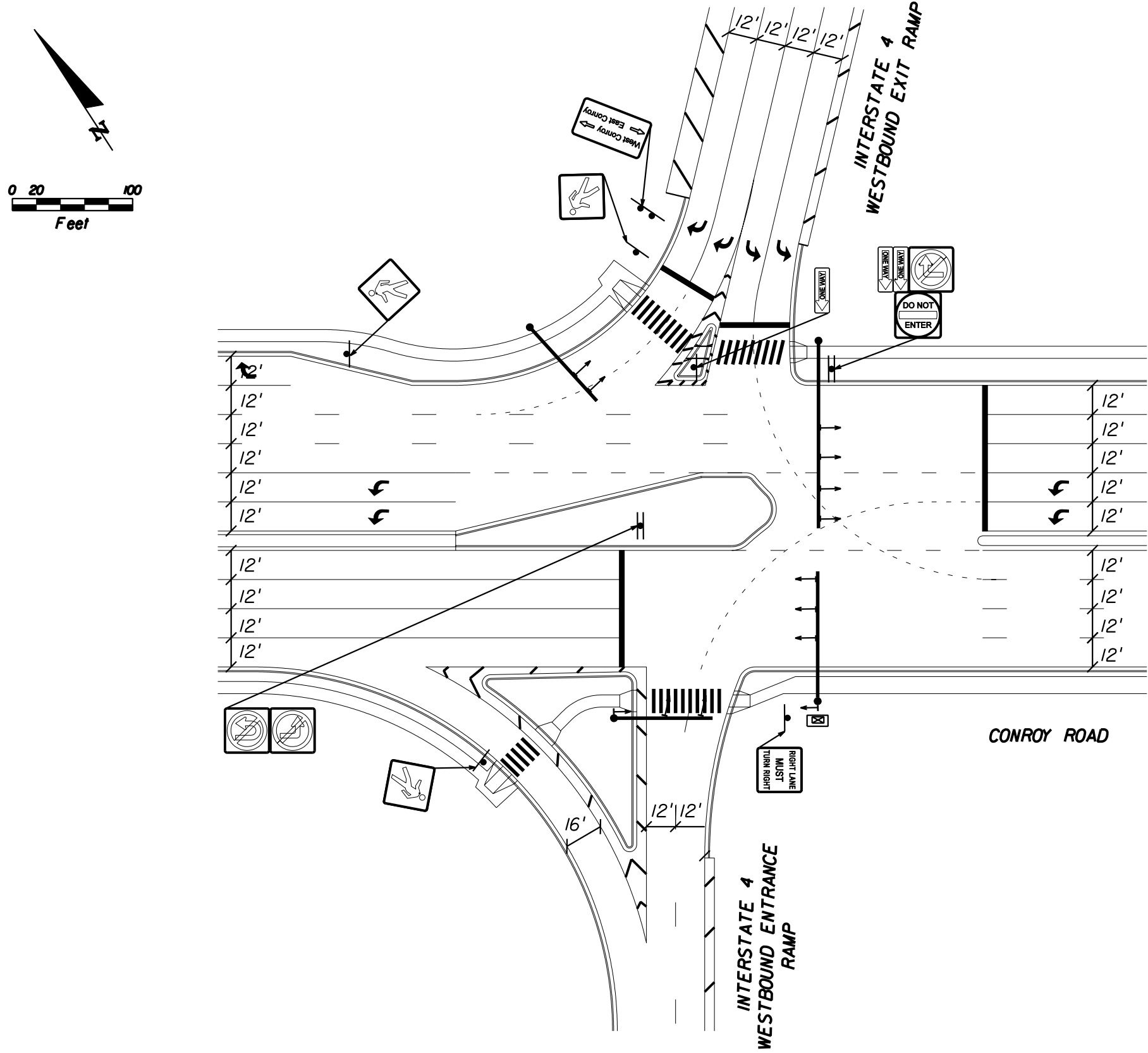
Exhibit 7: Looking south into the intersection along I-4 WB Ramp



Exhibit 8: Looking north from the intersection along I-4 WB Ramp

FIGURE 2
CONDITION DIAGRAM

LOCATION: INTERSTATE 4 AND WESTBOUND CONROY ROAD EXIT RAMP		CITY: ORLANDO	PREPARED BY: KLL
COUNTY: ORANGE			



Concrete Power Pole	Controller Cabinet	School	S.N.S.	Street Name Sign
Wood Power Pole	Light Pole	Residence	Pedestrian	Pedestrian
Ballard	Trees	Fence	Signal Head	Signal Head
Fire Hydrant	Shrubbery	Overhead Sign	Vehicle Loop	Vehicle Loop
Sign (1 Post)	Right-of-Way	Inlet	Manhole	Manhole
Sign (2 Posts)	Curb	Signal Head	Building	Building

15 MINUTE TURNING MOVEMENT COUNTS (ALL VEHICLES)

DATE: February 2, 2005 (Wednesday)

CITY: ORLANDO

LOCATION: CONROY ROAD AT WB I-4 RAMP

COUNTY: ORANGE

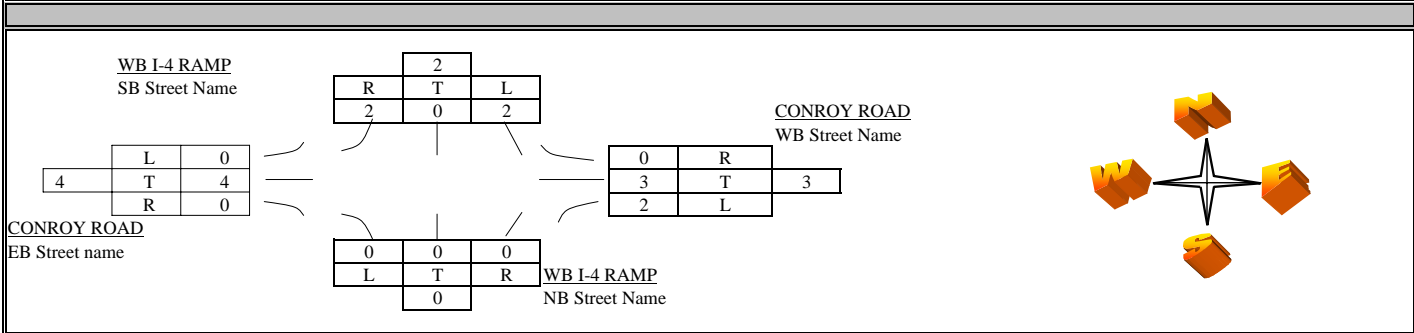
WB I-4 RAMP

CONROY ROAD

TIME BEGIN	NORTHBOUND					SOUTHBOUND					N/S TOT	EASTBOUND					WESTBOUND					E/W TOT	GRAND TOTAL
	R	T	L	U	TOT	R	T	L	U	TOT		R	T	L	U	TOT	R	T	L	U	TOT		
7:00	0	0	0	0	0	120	0	58	0	178	178	85	371	0	0	456	0	262	83	0	345	801	979
7:15	0	0	0	0	0	118	0	59	0	177	177	103	348	0	0	451	0	254	109	0	363	814	991
7:30	0	0	0	0	0	148	0	53	0	201	201	108	418	0	0	526	0	322	121	0	443	969	1,170
7:45	0	0	0	0	0	145	0	74	0	219	219	124	335	0	0	459	0	395	114	0	509	968	1,187
TOTAL	0	0	0	0	0	531	0	244	0	775	775	420	1,472	0	0	1,892	0	1,233	427	0	1,660	3,552	4,327
8:00	0	0	0	0	0	151	0	72	0	223	223	116	420	0	0	536	0	312	98	0	410	946	1,169
8:15	0	0	0	0	0	128	0	74	0	202	202	82	343	0	0	425	0	306	104	0	410	835	1,037
8:30	0	0	0	0	0	152	0	74	0	226	226	117	329	0	0	446	0	307	67	0	374	820	1,046
8:45	0	0	0	0	0	159	0	96	0	255	255	90	284	0	0	374	0	290	81	0	371	745	1,000
TOTAL	0	0	0	0	0	590	0	316	0	906	906	405	1,376	0	0	1,781	0	1,215	350	0	1,565	3,346	4,252
11:00	0	0	0	0	0	94	0	94	0	188	188	61	301	0	0	362	0	170	75	0	245	607	795
11:15	0	0	0	0	0	112	0	125	0	237	237	66	274	0	0	340	0	181	87	0	268	608	845
11:30	0	0	0	0	0	102	0	118	0	220	220	76	362	0	0	438	0	219	95	0	314	752	972
11:45	0	0	0	0	0	146	0	157	0	303	303	75	392	0	0	467	0	225	87	0	312	779	1,082
TOTAL	0	0	0	0	0	454	0	494	0	948	948	278	1,329	0	0	1,607	0	795	344	0	1,139	2,746	3,694
12:00	0	0	0	0	0	119	0	163	0	282	282	77	349	0	0	426	0	256	89	0	345	771	1,053
12:15	0	0	0	0	0	129	0	131	0	260	260	68	371	0	0	439	0	258	107	0	365	804	1,064
12:30	0	0	0	0	0	113	0	122	0	235	235	70	381	0	0	451	0	261	93	0	354	805	1,040
12:45	0	0	0	0	0	108	0	164	0	272	272	74	358	0	0	432	0	270	141	0	411	843	1,115
TOTAL	0	0	0	0	0	469	0	580	0	1,049	1,049	289	1,459	0	0	1,748	0	1,045	430	0	1,475	3,223	4,272
2:00	0	0	0	0	0	130	0	99	0	229	229	73	360	0	0	433	0	287	137	0	424	857	1,086
2:15	0	0	0	0	0	133	0	126	0	259	259	88	333	0	0	421	0	285	149	0	434	855	1,114
2:30	0	0	0	0	0	124	0	105	0	229	229	90	310	0	0	400	0	272	178	0	450	850	1,079
2:45	0	0	0	0	0	137	0	100	0	237	237	104	334	0	0	438	0	281	163	0	444	882	1,119
TOTAL	0	0	0	0	0	524	0	430	0	954	954	355	1,337	0	0	1,692	0	1,125	627	0	1,752	3,444	4,398
3:00	0	0	0	0	0	153	0	115	0	268	268	91	289	0	0	380	0	323	183	0	506	886	1,154
3:15	0	0	0	0	0	136	0	96	0	232	232	98	377	0	0	475	0	355	171	0	526	1,001	1,233
3:30	0	0	0	0	0	180	0	114	0	294	294	120	310	0	0	430	0	344	202	0	546	976	1,270
3:45	0	0	0	0	0	173	0	93	0	266	266	122	318	0	0	440	0	385	224	0	609	1,049	1,315
TOTAL	0	0	0	0	0	642	0	418	0	1,060	1,060	431	1,294	0	0	1,725	0	1,407	780	0	2,187	3,912	4,972
4:00	0	0	0	0	0	119	0	101	0	220	220	104	285	0	0	389	0	323	164	0	487	876	1,096
4:15	0	0	0	0	0	160	0	84	0	244	244	102	269	0	0	371	0	339	162	0	501	872	1,116
4:30	0	0	0	0	0	135	0	114	0	249	249	131	313	0	0	444	0	332	136	0	468	912	1,161
4:45	0	0	0	0	0	156	0	93	0	249	249	141	274	0	0	415	0	337	168	0	505	920	1,169
TOTAL	0	0	0	0	0	570	0	392	0	962	962	478	1,141	0	0	1,619	0	1,331	630	0	1,961	3,580	4,542
5:00	0	0	0	0	0	133	0	91	0	224	224	205	329	0	0	534	0	357	165	0	522	1,056	1,280
5:15	0	0	0	0	0	166	0	116	0	282	282	135	316	0	0	451	0	370	149	0	519	970	1,252
5:30	0	0	0	0	0	139	0	84	0	223	223	148	333	0	0	481	0	407	170	0	577	1,058	1,281
5:45	0	0	0	0	0	128	0	76	0	204	204	145	316	0	0	461	0	392	158	0	550	1,011	1,215
TOTAL	0	0	0	0	0	566	0	367	0	933	933	633	1,294	0	0	1,927	0	1,526	642	0	2,168	4,095	5,028

FLORIDA DEPARTMENT OF TRANSPORTATION
SUMMARY OF VEHICLE MOVEMENTS

SECTION:	75280	CITY:	ORLANDO	COUNTY:	ORANGE
STATE ROUTE:	CONROY ROAD			INTERSECTING ROUTE:	WB I-4 RAMP
OBSERVER:	DAG	DATE:	February 2, 2005	MILEPOST:	12.3
WEATHER:	CLEAR			ROAD CONDITION:	DRY
REMARKS:					
FORM COMPLETED BY/DATE:	DAG/February 16, 2005				



VEHICLE MOVEMENTS

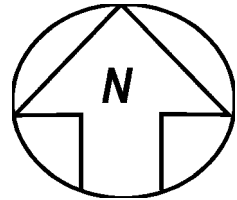
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FLORIDA DEPARTMENT OF TRANSPORTATION

Pedestrian Movement Summary

Section 75280 City ORLANDO County ORANGE
 State Route CONROY ROAD Intersecting Route WB I-4 RAMP
 Data By GMB Date 02/02/05 Form Completed By DAG
 Remarks NONE

WB I-4 RAMP



CONROY ROAD

	7:00 - 8:00	8:00 - 9:00	11:00 - 12:00	12:00 - 13:00	2:00 - 3:00	3:00 - 4:00	4:00-5:00	5:00-6:00	
14	1	0	0	5	2	2	3	1	21
	3	2	2	3	1	3	5	2	

	0	
5:00-6:00	0	0
4:00-5:00	0	0
3:00 - 4:00	0	0
2:00 - 3:00	0	0
12:00 - 13:00	0	0
11:00 - 12:00	0	0
8:00 - 9:00	0	0
7:00 - 8:00	0	0
	0	

	0	
0	0	7:00 - 8:00
0	0	8:00 - 9:00
0	0	11:00 - 12:00
0	0	12:00 - 13:00
0	0	2:00 - 3:00
0	0	3:00 - 4:00
0	0	4:00-5:00
0	0	5:00-6:00
	0	

CONROY ROAD

3	0	0	0	2	0	1	0	0	7
	1	0	1	0	0	3	2	0	
	5:00-6:00	4:00-5:00	3:00 - 4:00	2:00 - 3:00	12:00 - 13:00	11:00 - 12:00	8:00 - 9:00	7:00 - 8:00	

CONTROLLER TIMING									
RING 1				RING 2					
APPROACH	WB	Timing	SB	WBL	Timing	EB	SBR		
DESCRIPTION	Conroy	Only	Ramp	Conroy	Only	Conroy	Ramp		
PHASE #	1	2	3	4	5	6	OL-A	OL-B	
INITIAL		14	6	15	8	14	This is Overlap "A" standard with phases 3 & 6	This is Overlap "B" standard with phases 3 & 4	<div> <div>North</div> <div> </div> <div>South</div> </div>
PASSAGE		3.5	2	2	2	3.5			
YELLOW		4	4	4	4	4			
RED CLEAR		2	2	2	2	2			
MAX 1		50	25	30	25	50			
MAX 2		45	25	45	10	45			
WALK		7				7			
PED CLEAR		21				21			
MIN RECALL		Yes		Yes		Yes			
MAX RECALL									
PED RECALL									
NON -LOCK		Lock		Lock	Lock	Lock			
REST IN WALK									
DISPLAY		Balls		Protected	Protected		Balls	Protected	
U.C.F.		Y		R	R		Y	R	
MAIN ST.		Yes					Yes		
L/S POSITION		2		4	5		9	10	

Date Naztec Inspected: 6/7/2002 Work done by: Dan Saile Intersection Number 666 Comm Channel N/A OLD N/A NEW 61 Intersection Name Conroy I-4 (W)		NB			SB			EB			WB		
		L	T	R	L	T	R	L	T	R	L	T	R
	# of Lanes	2		2					4		2	3	
	Shared												
	Width	12	12	12	12	12	12	12	12	12	12	12	12
	Storage	240		240							180		
	Grade		0			0			0			0	
	Posted Speed		35						45			45	
	First Detect												
	Last Detect												
	Phase1	3&4		4					3&6		5	2	
	Phase2												
	Phase3												
	Phase4												
	PermPhase1												
	PermPhase2												
	PermPhase3												
	PermPhase4												
	DetectPhase1	3&4	0	4	0	0	0	0	3&6	0	5	2	0
	DetectPhase2												
DetectPhase3													
DetectPhase4													
Det#1	3&4	0	4	0	0	0	0	3&6	0	5	2	0	
Det#2													
Det#3													
Det#4													

NOTES :	Opticom programmed E/B and W/B.
Revised 2/9/2005	