

TRAFFIC SIGNAL WARRANT STUDY

For

Interstate 4 Westbound Ramps at Dirksen Drive

Section 79110: I-4 (MP 3.401)
Deltona - Volusia County

Prepared for:

FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT 5 TRAFFIC OPERATIONS

General Engineering Consultant Services Contract for District Five
Financial Project Identification Number: 404734-1-32-02
Work Order Number 126
TEDS Contract Number 10122

Prepared by:

Traffic Engineering Data Solutions, Inc.

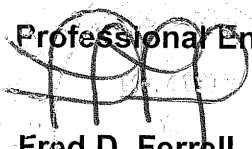
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October 2009

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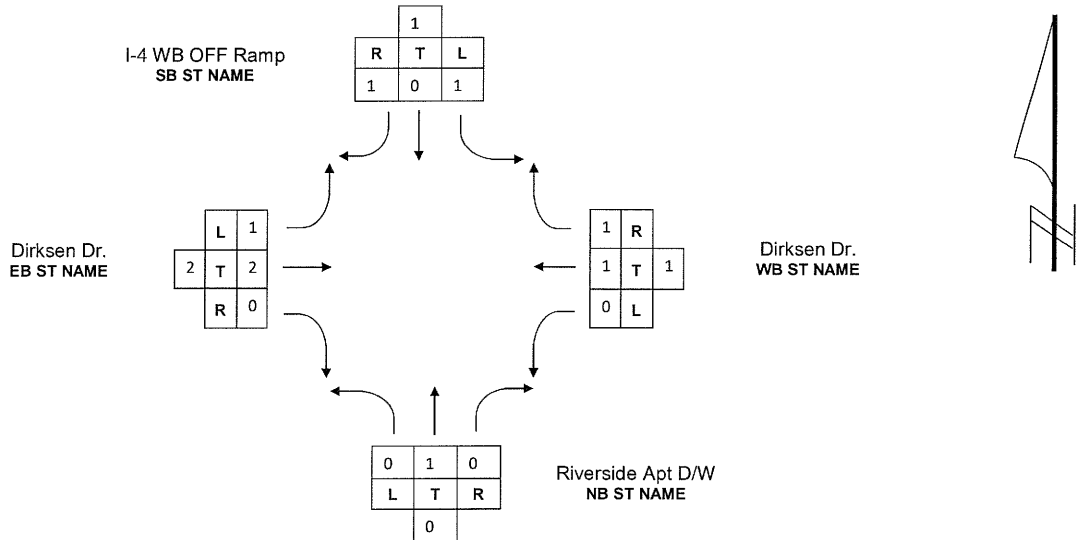

Fred D. Ferrell, P.E.
P.E. No. 41902

10.09.09

FLORIDA DEPARTMENT OF TRANSPORTATION

SUMMARY OF VEHICLE MOVEMENTS

SECTION 79070 CITY Deltona COUNTY Volusia
 STATE ROUTE I-4 WB OFF INTERSECTING ROUTE Dirksen Dr.
 OBSERVER CB DATE 8/5/2009 MILEPOST 3.510
 WEATHER Cloudy ROAD CONDITION Good
 REMARKS (7-9 a.m. & 2-6 p.m. TMC done on 7/29/09) (11-1 p.m. done on 8/3/09)
 FORM COMPLETED BY CB DATE 8/5/2009



TIME	NORTHBOUND					SOUTHBOUND					TOTAL	EASTBOUND					WESTBOUND					TOTAL
BEGIN/END	L	T	R	U	TOT	L	T	R	U	TOT	N/S	L	T	R	U	TOT	L	T	R	U	TOT	E/W
4 - 5																						
5 - 6																						
6 - 7																						
7 - 8	0	0	0	0	0	89	2	103	0	194	194	119	210	0	1	330	0	263	1,135	2	1,400	1,730
8 - 9	1	0	1	0	2	80	1	61	0	142	144	88	219	0	1	308	0	262	859	3	1,124	1,432
9 - 10																						
10 - 11																						
11 - 12	0	0	5	0	5	91	0	78	0	169	174	58	236	0	1	295	6	225	439	5	675	970
12 - 1	1	1	1	0	3	102	0	81	0	183	186	63	279	1	3	346	6	265	431	1	703	1,049
1 - 2																						
2 - 3	0	0	4	0	4	85	0	62	0	147	151	60	250	0	1	311	4	254	451	4	713	1,024
3 - 4	0	1	2	0	3	97	0	81	0	178	181	38	301	0	1	340	5	256	360	2	623	963
4 - 5	0	0	0	0	0	100	2	94	0	196	196	50	422	1	2	475	4	294	356	1	655	1,130
5 - 6	1	0	2	0	3	100	1	110	0	211	214	60	579	1	2	642	7	290	394	0	691	1,333
6 - 7																						
7 - 8																						
8 - 9																						
9 - 10																						
10 - 11																						
11 - 12																						
TOTAL	3	2	15	0	20	744	6	670	0	1,420	1,440	536	2,496	3	12	3,047	32	2,109	4,425	18	6,584	9,631

FLORIDA DEPARTMENT OF TRANSPORTATION

PEDESTRIAN MOVEMENT SUMMARY

SECTION 79070
 STATE ROUTE I-4 WB OFF
 OBSERVER CB

CITY Deltona
 INTERSECTING ROUTE Dirksen Dr.
 DATE 7/29/09 & 8/3/09

COUNTY Volusia

REMARKS (7-9 a.m. & 2-6 p.m. TMC done on 7/29/09) & (11-1 p.m. TMC done on 8/3/09)

FORM COMPLETED BY CB DATE 08/05/09

I-4 WB off Ramp
 SB ST NAME

7-8	8-9	11-12	12-1	2-3	3-4	4-5	5-6	Total
0	0	1	0	0	0	1	0	2
2	0	0	0	6	1	1	0	10
2	0	1	0	6	1	2	0	12

7-8	0	0	0
8-9	0	0	0
11-12	0	0	0
12-1	0	0	0
2-3	0	0	0
3-4	0	0	0
4-5	0	0	0
5-6	0	0	0
Total	0	0	0

Dirksen Dr.
 EB ST NAME

7-8	0	0	0
8-9	0	0	0
11-12	0	0	0
12-1	0	0	0
2-3	0	0	0
3-4	0	0	0
4-5	0	0	0
5-6	0	0	0
Total	0	0	0

Dirksen Dr.
 WB ST NAME

7-8	8-9	11-12	12-1	2-3	3-4	4-5	5-6	Total
1	0	0	0	0	0	0	0	1
0	2	0	0	0	0	1	0	3
1	2	0	0	0	0	1	0	4

Riverside Apt. D/W
 NB ST NAME

FDOT
District V - Traffic Operations

Counter: T-3328
Counted By: CB
Weather:
TMC:

719 S. Woodland Blvd.
DeLand, Florida 32720

File Name : i4 wb @ dirksen 7-9
Site Code : 79110000
Start Date : 7/29/2009
Page No : 1

Groups Printed- TMC

	Westbound I-4 Ramps Southbound				Dirksen Drive Westbound				Driveway Northbound				Dirksen Drive Eastbound				Int. Total
Start Time	Left	Thru	Right	U- turn	Left	Thru	Right	U- turn	Left	Thru	Right	U- turn	Left	Thru	Right	U- turn	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	18	2	13	0	0	55	279	0	0	0	0	0	34	46	0	0	447
07:15 AM	21	0	12	0	0	76	259	0	0	0	0	0	24	57	0	0	449
07:30 AM	24	0	36	0	0	66	316	0	0	0	0	0	36	65	0	0	543
07:45 AM	26	0	42	0	0	66	281	2	0	0	0	0	25	42	0	1	485
Total	89	2	103	0	0	263	1135	2	0	0	0	0	119	210	0	1	1924
08:00 AM	14	0	18	0	0	63	249	0	0	0	0	0	21	50	0	1	416
08:15 AM	17	0	11	0	0	64	210	2	0	0	1	0	24	57	0	0	386
08:30 AM	25	0	11	0	0	74	207	0	0	0	0	0	26	72	0	0	415
08:45 AM	24	1	21	0	0	61	193	1	1	0	0	0	17	40	0	0	359
Total	80	1	61	0	0	262	859	3	1	0	1	0	88	219	0	1	1576
Grand Total	169	3	164	0	0	525	1994	5	1	0	1	0	207	429	0	2	3500
Apprch %	50.3	0.9	48.8	0.0	0.0	20.8	79.0	0.2	50.0	0.0	50.0	0.0	32.4	67.2	0.0	0.3	
Total %	4.8	0.1	4.7	0.0	0.0	15.0	57.0	0.1	0.0	0.0	0.0	0.0	5.9	12.3	0.0	0.1	

FDOT
District V - Traffic Operations

Counter: T-3328
Counted By: CB
Weather:
TMC:

719 S. Woodland Blvd.
DeLand, Florida 32720

File Name : i4 wb @ dirksen 11-1
Site Code : 79110000
Start Date : 8/3/2009
Page No : 1

Groups Printed- TMC

	Westbound I-4 Ramps Southbound				Dirksen Drive Westbound				Driveway Northbound				Dirksen Drive Eastbound				Int. Total
Start Time	Left	Thru	Right	U- turn	Left	Thru	Right	U- turn	Left	Thru	Right	U- turn	Left	Thru	Right	U- turn	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
11:00 AM	22	0	18	0	2	59	119	2	0	0	1	0	16	57	0	0	296
11:15 AM	20	0	18	0	2	40	108	1	0	0	1	0	13	57	0	0	260
11:30 AM	24	0	16	0	1	61	113	0	0	0	3	0	14	63	0	1	296
11:45 AM	25	0	26	0	1	65	99	2	0	0	0	0	15	59	0	0	292
Total	91	0	78	0	6	225	439	5	0	0	5	0	58	236	0	1	1144
12:00 PM	26	0	20	0	0	76	94	0	1	0	0	0	13	68	0	0	298
12:15 PM	30	0	18	0	2	65	129	0	0	0	0	0	17	70	0	0	331
12:30 PM	29	0	18	0	3	66	100	1	0	1	1	0	15	57	1	0	292
12:45 PM	17	0	25	0	1	58	108	0	0	0	0	0	18	84	0	3	314
Total	102	0	81	0	6	265	431	1	1	1	1	0	63	279	1	3	1235
Grand Total	193	0	159	0	12	490	870	6	1	1	6	0	121	515	1	4	2379
Apprch %	54.8	0.0	45.2	0.0	0.9	35.6	63.1	0.4	12.5	12.5	75.0	0.0	18.9	80.3	0.2	0.6	
Total %	8.1	0.0	6.7	0.0	0.5	20.6	36.6	0.3	0.0	0.0	0.3	0.0	5.1	21.6	0.0	0.2	

FDOT
District V - Traffic Operations
 719 S. Woodland Blvd.
 DeLand, Florida 32720

Counter: T-3328
 Counted By: CB
 Weather:
 TMC:

File Name : i4 wb @ dirksen 2-6
 Site Code : 79110000
 Start Date : 7/29/2009
 Page No : 1

Groups Printed- TMC

	Westbound I-4 Ramps Southbound				Dirksen Drive Westbound				Driveway Northbound				Dirksen Drive Eastbound				Int. Total
Start Time	Left	Thru	Right	U-turn	Left	Thru	Right	U-turn	Left	Thru	Right	U-turn	Left	Thru	Right	U-turn	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
02:00 PM	19	0	16	0	1	54	111	2	0	0	1	0	14	63	0	1	282
02:15 PM	21	0	11	0	1	66	110	0	0	0	1	0	16	54	0	0	280
02:30 PM	25	0	21	0	2	66	121	0	0	0	2	0	19	67	0	0	323
02:45 PM	20	0	14	0	0	68	109	2	0	0	0	0	11	66	0	0	290
Total	85	0	62	0	4	254	451	4	0	0	4	0	60	250	0	1	1175
03:00 PM	29	0	27	0	2	61	83	0	0	0	0	0	10	66	0	0	278
03:15 PM	16	0	16	0	0	66	89	2	0	0	0	0	9	71	0	0	269
03:30 PM	31	0	21	0	0	52	95	0	0	0	1	0	12	88	0	0	300
03:45 PM	21	0	17	0	3	77	93	0	0	1	1	0	7	76	0	1	297
Total	97	0	81	0	5	256	360	2	0	1	2	0	38	301	0	1	1144
04:00 PM	21	1	28	0	1	57	74	0	0	0	0	0	14	106	0	2	304
04:15 PM	26	0	18	0	0	94	102	1	0	0	0	0	4	108	0	0	353
04:30 PM	32	0	21	0	1	77	92	0	0	0	0	0	20	107	0	0	350
04:45 PM	21	1	27	0	2	66	88	0	0	0	0	0	12	101	1	0	319
Total	100	2	94	0	4	294	356	1	0	0	0	0	50	422	1	2	1326
05:00 PM	23	1	31	0	2	77	118	0	0	0	2	0	17	156	0	2	429
05:15 PM	30	0	31	0	2	85	97	0	1	0	0	0	19	149	0	0	414
05:30 PM	26	0	26	0	0	58	89	0	0	0	0	0	10	143	1	0	353
05:45 PM	21	0	22	0	3	70	90	0	0	0	0	0	14	131	0	0	351
Total	100	1	110	0	7	290	394	0	1	0	2	0	60	579	1	2	1547
Grand Total	382	3	347	0	20	1094	1561	7	1	1	8	0	208	1552	2	6	5192
Apprch %	52.2	0.4	47.4	0.0	0.7	40.8	58.2	0.3	10.0	10.0	80.0	0.0	11.8	87.8	0.1	0.3	
Total %	7.4	0.1	6.7	0.0	0.4	21.1	30.1	0.1	0.0	0.0	0.2	0.0	4.0	29.9	0.0	0.1	

NORTH/SOUTH ST: I-4 WB off Ramp

EAST/WEST STREET: Dirksen Dr.

BY: CB

ALL VEHICLES

[illegible]