

Interoffice Memorandum

Febuary 1, 2017

TO:

Mayor Teresa Jacobs

and Board of County Commissioners

FROM:

Mark V. Massaro, P. E., Director, Public Works Department

CONTACT PERSON: John Klimovitch, County Traffic Engineer

Traffic Engineering Division

PHONE NUMBER:

(407) 836-7890

SUBJ:

Installation of a Traffic Signal at the Intersection of Winter Garden

John Himmite

Vineland Road (CR 535) and Bluebird Pond Road/Magnolia Park Court

The Traffic Engineering staff has conducted a traffic signal warrant study at Winter Garden Vineland Road (CR 535) and Bluebird Pond Road/Magnolia Park Court.

The study consisted of an evaluation of existing field conditions, including delays, sight distance, 24-hour traffic volumes by time of day, traffic thresholds and crash history. For a traffic signal to become warranted, it must meet at least one of the eight (8) traffic signal warrants published in the Manual of Uniform Traffic Control Devices. The traffic signal warrant analysis shows that conditions were satisfied for Warrant 1 (Eight Hour Vehicular Volume), Warrant 2 (Four Hour Vehicular Volume) and Warrant 7 (Crash Experience) based on existing conditions.

Staff recommends that the Board approve the installation of a traffic signal at the intersection of Winter Garden Vineland Road (CR 535) and Bluebird Pond Road/Magnolia Park Court.

Action Requested:

Approval of the installation of a traffic signal at the intersection

of Winter Garden Vineland Road (CR 535) and Bluebird Pond

Road/Magnolia Park Court. District 1.

MVM/JK/AHW/nad

Attachments



Winter Garden Vineland Road (CR 535) and Bluebird Pond Road/Magnolia Park Court Agenda Location Map









Winter Garden Vineland Road (CR 535) and Bluebird Pond Road/Magnolia Park Court Consent Agenda District Map





District 1: Commissioner Betsy VanderLey

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TRAFFIC SIGNAL WARRANT SUMMARY

	City: ORLANDO County: ORANGE					Engineer: Ching Yang Date: January 12, 20								
Majoi Minoi	r Street: r Street: (Existing Condition)		CR 53! oird Po		· · · · · · · · · · · · · · · · · · ·		-	nes:					eed: <u>45 n</u>	npl
1. 2.	ne Level Criteria Is the critical speed of Is the intersection in a Question 1 or 2 above i	built-up	area o	f isolate	ed comn	nunity o	f <10,00		lation?			Yes Yes 70%	No ⊠ No 100	%
Wa Wa	RANT 1 - EIGHT-H arrant 1 is satisfied if Conc arrant is also satisfied if be 56%" satistied for major s andition A - Minimum	dition A or oth Condit treets gre	Conditi ion A ar ater tha	ion B is ' nd Cond n 40 mp	"100%" s ition B ar	atisfied.		1	Sa or streets	olicable: atisfied: atisfied: atisfied: atisfied:	or less,	Yes Yes or Yes Yes	No No No	
<u> </u>						Eight Highest Hours								
L	(volumes in veh/hr) Approach Lanes Volume Level	(80%	Minimum Requirements (80% Shown in Brackets) 1 2 or more 100% 70% 100% 70%		6-7 am	7-8 am	8-9 am	9-10 am	1-2 pm	2-3 pm	3-4 pm	4-5 pm		
E	Both Approaches on Major Street	500 (400) [280]	350	600 (480) [336]	(420)	2,153				2,974		3,295		
F	Highest Approach on Minor Street	150 (120) [84]	105	200 (160) [112]	140	156	203	242	150	145	140	139	144	
Co	Record 8 highest hours a minimum volumes are m Condition is 56% satisfied and tion B - Interruption Condition B is intended if so heavy that traffic on the solution is solver the solution of the solution is solver the solution is	et for eighted it [brack on of Co for applica	nt hours keted] v ntinuo ntion wh	. Condi olumes a us Traf ere the t	tion is 80 are met f ffic traffic vol	0% satisf or eight i ume is	ied if (pa hours.	Ex 56% or	App cessive 00% Sa 80% Sa	nes are in licable: Delay: atisfied:	met for e	ight houl Yes Yes Yes Yes	rs. No No No	
								Eig	ht High	est Ho	urs			
	(volumes in veh/hr) Approach Lanes Volume Level Both Approaches on	(80% § 1 100% 750	Shown	100% 900	ckets) more	6-7 am	7-8 am	8-9 am	11-12 pm	2-3 pm	3-4 pm	4-5 pm	5-6 pm	
-	Major Street Highest Approach on Minor Street	(600) [420] 75 (60)	53	(720) [504]) 100 (80)	70	2,153 156	203	3,170	2,579	145	140	139	144	

Record 8 highest hours and the corresponding volumes in boxes provided. Condition is 100% satisfied if the minimum volumes are met for eight hours. Condition is 80% satisfied if (parenthetical) volumes are met for eight hours. Condition is 56% satisfied it [bracketed] volumes are met for eight hours.

[56]

TRAFFIC SIGNAL WARRANT SUMMARY

City:	Orlando	Ching Yang				
County:	Orange County	Date:	January 12, 2017			
Major Street:	CR535	Lanes:2	Critical Approx	ach Sp	eed: 4	5 mph
Minor Street:	Blubird Pond Rd	Lanes: <u>1</u>				
Volume Level Cri		40				
1. Is the critical	al speed of major street traffic > 70 km/h (4	10 mph) ?	(X)	Yes	Г	No
2. Is the inters	ection in a built-up area of isolated comm	unity of <10,000 population?		Yes	X I	NO
If Question 1 o	r 2 above is answered "Yes", then use "70	%" volume level	\mathbf{x}	70%	. 1	100%

WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME

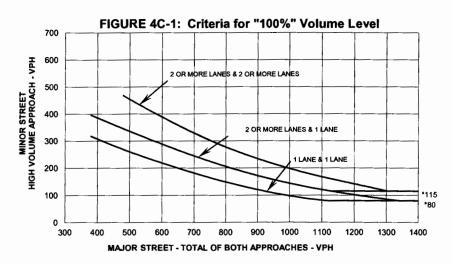
If all four points lie above the appropriate line, then the warrant is satisfied.

Applicable: Satisfied:

No

No

Plot four volume combinations on the applicable figure below.



* Note: 115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

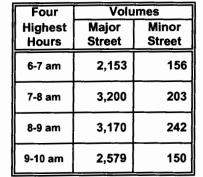
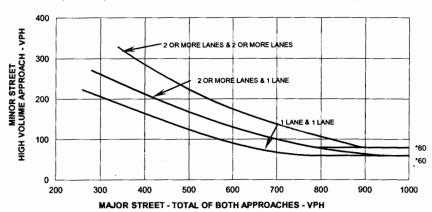


FIGURE 4C-2: Criteria for "70%" Volume Level

(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)



* Note: 80 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 60 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

TRAFFIC SIGNAL WARRANT SUMMARY

City:	ORLANDO ORANGE		Engineer: Date:		Ching Yang January 12, 2017		
Major Street:		CR 535 ird Pond Rd	Lanes:	2 Critical	Approach Sp	oeed: <u>45 mph</u>	
2. Is the interse	speed of major str ction in a built-up	reet traffic > 70 km/h (40 r area of isolated communit red "Yes", then use "70%"	ty of <10,000 popu	ılation?	⊠ Yes □ Yes ⊠ 70%	No ⊠ No 100%	
WARRANT 3 - P If all three criteria a then the warrant is	are fullfilled or the pla	otted point lies above the app	oropriate line,	Applicable: Satisfied:	⊠ Yes Yes	No ⊠ No	
Unusual condition use of warra			me combination on th	•			

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

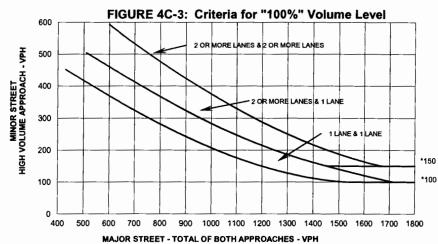
	Peak Hou	
8-9 am	L	

Criteria

Delay on Minor Approach *(vehicle-hours)						
Approach Lanes	1	2				
Delay Criteria*	4.0	5.0				
Delay*						
Fulfilled?: Yes	<u> </u>	No				

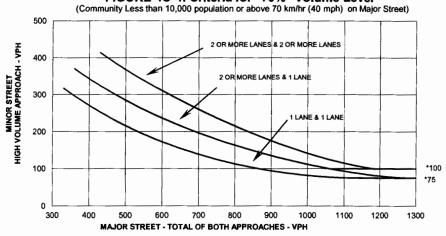
Volume on Minor Approach *(vehicles per hour)						
Approach Lanes	1	2				
Volume Criteria*	100	150				
Volume*						
Fulfilled?: X Yes No						

Total Entering Volume *(vehicles per hour) * * * * * * * * * * * * * * * * * *							
No. of Approaches	3	4					
Volume Criteria*	650	800					
Volume* 3,561							
Fulfilled?: X Yes		No					



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-4: Criteria for "70%" Volume Level



* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

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TRAFFIC SIGNAL WARRANT SUMMARY

City: ORLANDO County: ORANGE	_	Engineer: Date:	Ching Yang January 12, 2017			
Major Street: CR 535 Minor Street: Bluebird Pond	anes: 2	_ Critic	cal Approach	Speed:	45 mph	
WARRANT 4 - PEDESTRIAN VOLUME Record hours where criteria are fulfilled and the frequency in the boxes provided. The warrant is and condition 3 is fulfilled.	- corresponding volume or ga _l		Applicabl Satisfie		_	No No
	T		estrian	Pedestrian	Fulfi	
Criteria	Hour	Vo	lume	Gaps	Yes	No
Pedestrian volume crossing the major street is						i 1
100 ped/hr or more for each of any four hours						
and there are less than 60 gaps per hour in the						
major street traffic stream of adequate length.	 					
Pedestrian volume crossing the major street is 190 ped/hr or more for any one hour <u>and</u> there		[ĺ			
are less than 60 gaps per hour in the major stree			1			
3.			[1 1
traffic stream of adequate length. 3. The nearest traffic signal along the major street in	is located more than 90 m /3	100 ft) away or	the neares	t signal		
is within 90 m (300 ft) but the proposed traffic sig						i i
Record hours where criteria are fulfilled and the frequency in the boxes provided. The warrant is are fulfilled.			Satisfie	d: Yes		No
	Criteria				Fulfi Yes	led? No
There are a minimum of 20 students crossing the	e major street	Students:	Ног			
during the highest crossing hour.	· 1					
2. There are fewer adequate gaps in the major stre	et traffic stream during the p	eriod	Minutes:	Gaps:		
when the children are using the crossing than the						
3. The nearest traffic signal along the major street i						
is within 90 m (300 ft) but the proposed traffic sig	nal will not restrict the progr	essive movem	ent of traffic	<u></u>		
WARRANT 6 - COORDINATED SIGNA	L SYSTEM		Applicable	e: 🗆 Yes	×	No
Indicate if the criteria are fulfilled in the boxes pro			Satisfie			No
satisfied if either criterion is fulfilled. This warran		n the				
resulting signal spacing would be less than 300 i						
-						
	Outhanda				Fulfil	
	Criteria				Fulfil Yes	lled? No
On a one-way street or a street that has traffic pr	edominately in one direction		signals are			
so far apart that they do not provide the necessa	edominately in one direction ry degree of vehicle platooni	ng.				
	edominately in one direction ry degree of vehicle platooni vide the necessary degree o	ng. f platooning, ar				

TRAFFIC SIGNAL WARRANT SUMMARY

City:	City: ORLANDO County: ORANGE					Engineer: Ching Yang Date: January 12, 2017					
County.	URANGE	<u> </u>			·	Date: _		Janua	iry 12, 2	017	
Major Street:	Major Street: CR 535 Lane					: 2	Cr	itical Ap	proach	Speed:	45 mph
Minor Street:	Minor Street: Bluebird Pond Rd Lanes: 1										
Record hou	7 - CRASH EXPER rs where criteria are fulfill in the boxes provided. T	led, the correspo	_				Applica Satis		⊠ Ye ⊠ Ye	-	No No
			T			T	*	M	et?	Fulfi	lled?
	Criteria			Hour			Volume	Yes	No	Yes	No
1. One of the	Warrant 1, Condition A (80% satisfied)						×			
warrants	Warrant 1, Condition B (X			
to the right	Warrant 4, Pedest							4	1	(X)	
is met.	at 80% of volume re	•						4	×	_	
	80 ped/hr for four		<u> </u>					1	_		
	152 ped/hr for on							<u> </u>	L		
11	Adequate trial of other remedial measure has failed to reduce crash frequency. Measure tried:										X
	reported crashes, of typ			Numb	er of cra	shes n	er 12 mont	he:	5	X	
correction b	y signal, have occurred w	rithin a 12-mo. p	eriod.	IAGIIID	ei oi cia	siles p	er 12 mon		<u> </u>		
	in the boxes provided. The	he warrant is sai	isfied if a		the crit		Satisf	ied.	☐ Yes	5 L	No
	in the boxes provided. The difful intersecting routes	he warrant is sai	isfied if a	t least one of	the crit		Satisi			_	
	· · · · · · · · · · · · · · · · · · ·	he warrant is sai	isfied if a	t least one of	the crit		Satisi		et?	Fulfi	lled?
	· · · · · · · · · · · · · · · · · · ·	he warrant is sal s have one or mo Criteria	isfied if a	t least one of characteristi	the crit	l.		Me	et?	_	
is fulfilled an	a. Total entering volum	Criteria e of at least 1,0 kday peak hour.	isfied if a ore of the	t least one oi characteristi	f the critics listed	g Volur		Me	et?	Fulfi	lled?
is fulfilled and	a. Total entering volum during a typical weel b. Five-year projected v	Criteria e of at least 1,0 kday peak hour. volumes that sat	isfied if a ore of the	t least one of characteristi	f the critics listed	l.		Me	et?	Fulfi	lled?
1. Both of the criteria to the right are met.	a. Total entering volum during a typical weel b. Five-year projected vone or more of Warr	Criteria e of at least 1,0 kday peak hour. volumes that sat	isfied if a ore of the	t least one oi characteristi	the critics listed	g Volur	me:	Me	et?	Fulfi	lled?
1. Both of the criteria to the right are met. 2. Total enterin	a. Total entering volum during a typical weel b. Five-year projected vone or more of Warr g volume at least	Criteria e of at least 1,0 kday peak hour. volumes that sat	isfied if a ore of the	t least one of characteristi	the critics listed	g Volur	me:	Me	et? No	Fulfi	lled?
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non	a. Total entering volum during a typical weel b. Five-year projected one or more of Warr g volume at least for each of any 5 hrs mal business day	Criteria e of at least 1,0 kday peak hour. volumes that sat	isfied if a ore of the	t least one of characteristi	the critics listed	g Volur	me:	Yes	et? No	Fulfi	lled?
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr	a. Total entering volum during a typical weel b. Five-year projected one or more of Warr g volume at least for each of any 5 hrs mal business day	Criteria e of at least 1,0 kday peak hour. volumes that sat	isfied if a ore of the	t least one of characteristi	the critics listed	g Volur	me:	Yes ← Hou	et? No	Fulfi	lled?
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non	a. Total entering volum during a typical weel b. Five-year projected one or more of Warr g volume at least for each of any 5 hrs mal business day	Criteria e of at least 1,0 kday peak hour. volumes that sat	isfied if a	t least one of characteristic Warrant: Satisfied?:	the critics listed	g Volur	me:	More Yes ← Hou ← Vol	No No urr	Fulfi	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.	a. Total entering volum during a typical weel b. Five-year projected v one or more of Warr g volume at least for each of any 5 hrs mal business day) Charac	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3.	isfied if a pre of the Oveh/hr isfy	Warrant: Satisfied?:	the critics listed	g Volur	me: 3	Mo Yes ← Hou ← Vol	No No urr	Fulfi Yes	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.	a. Total entering volum during a typical weel b. Five-year projected vone or more of Warr g volume at least for each of any 5 hrs mal business day) Characteret or highway system to	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3.	isfied if a pre of the Oveh/hr isfy	Warrant: Satisfied?:	the critics listed	g Volur	ne: 3 or Street:	More Yes ← Hou ← Vol	No No urr	Fulfii Yes	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.	a. Total entering volum during a typical weel b. Five-year projected vone or more of Warr g volume at least for each of any 5 hrs mal business day Characteret or highway system through traffic flow.	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3. teristics of M hat serves as th	isfied if a pre of the Oo veh/hr isfy ajor Rote	Warrant: Satisfied?:	the critics listed	g Volur 2 Majo	ne: 3 or Street: or Street:	More Yes ← Hou ← Vol	No No urr	Fulfii Yes	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.	a. Total entering volum during a typical weel b. Five-year projected vone or more of Warr g volume at least for each of any 5 hrs mal business day) Characteret or highway system to	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3. teristics of M hat serves as th	isfied if a pre of the Oo veh/hr isfy ajor Rote	Warrant: Satisfied?:	the critics listed	g Volur 2 Majc Minc Majo	or Street: or Street: or Street:	More Yes ← Hou ← Vol	No No urr	Fulfii Yes	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.	a. Total entering volum during a typical weel b. Five-year projected wone or more of Warr g volume at least for each of any 5 hrs mal business day Characteret or highway system through traffic flow.	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3. teristics of M hat serves as th	isfied if a pre of the Oo veh/hr isfy ajor Rote	Warrant: Satisfied?:	the critics listed	g Volur 2 Majo Mino Majo Mino	or Street: or Street: or Street: or Street:	More Yes ← Hou ← Vol	No No urr	Fulfii Yes	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.	a. Total entering volum during a typical weel b. Five-year projected vone or more of Warr g volume at least for each of any 5 hrs mal business day Characteret or highway system through traffic flow.	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3. teristics of M hat serves as th	isfied if a pre of the Oo veh/hr isfy ajor Rote	Warrant: Satisfied?:	the critics listed	g Volur 2 Majo Mino Majo Mino	or Street: or Street: or Street: or Street: or Street: or Street:	More Yes ← Hou ← Vol	No No urr	Fulfii Yes	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.	a. Total entering volum during a typical weel b. Five-year projected wone or more of Warr g volume at least for each of any 5 hrs mal business day Characteret or highway system through traffic flow.	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3. teristics of M hat serves as th	isfied if a pre of the Oo veh/hr isfy ajor Rote	Warrant: Satisfied?:	the critics listed	g Volur 2 Majo Mino Majo Mino	or Street: or Street: or Street: or Street:	More Yes ← Hou ← Vol	No No urr	Fulfii Yes	lled? No
1. Both of the criteria to the right are met. 2. Total enterin 1,000 veh/hr of a non-non (Sat. or Sun.) 1. Part of the senetwork for the senetwork for the senetwork sat. 2. Rural or subsection of the senetwork for the senetwork	a. Total entering volum during a typical weel b. Five-year projected vone or more of Warring volume at least for each of any 5 hrs mal business day .) Characteret or highway system through traffic flow. urban highway outside of a major route on an official	Criteria e of at least 1,0 kday peak hour. volumes that sat ants 1, 2, or 3. teristics of M hat serves as th , entering, or tra al plan.	isfied if a pre of the Oo veh/hr isfy ajor Rote	Warrant: Satisfied?:	Enterin	Majo Mino Mino Mino Mino	or Street: or Street: or Street: or Street: or Street: or Street:	More Yes ← Hou ← Vol	No No urr	Fulfii Yes	lled? No

Source: Revised from NCHRP Report 457

24 HOUR VOLUME SUMMARY

		CR	535	BLUEBIRD	POND RD			1/11/2017		
NO	HOUR	NB	SB	EB	WB	(NB+SB)	(EB+WB)	TOTAL	HOUR	
1	0-1	171	160	8	0	331	8	339	0-1	
2	1-2	76	109	2	0	185	2	187	1-2	
3	2-3	39	61	3	3	100	6	106	2-3	
4	3-4	42	115	7	0	157	7	164	3-4	
5	4-5	63	284	14	1	347	15	362	4-5	
6	5-6	194	603	38	3	797	41	838	5-6	
7	6-7	794	1359	189	12	2153 V	201	2354 ·	6-7	
8	7-8	1233	1967	280	14	3200 ✓	294	3494	7-8	
9	8-9	1348	1822	365	26	3170 ✓	391	3561	8-9	
10	9-10	1015	1564	214	16	2579 √	230	2809	9-10	
11	10-11	961	1413	193	10	2374	203	2577	10-11	
12	11-12	975	1375	189	15	2350	204	2554	11-12	
13	12-13	1010	1762	167	8	2772	175	2947	12-13	
14	13-14	984	1990	203	8	2974 ✓	211	3185	13-14	
15	14-15	1111	1742	189	9	2853 🗸	198	3051	14-1	
16	15-16	1587	1708	192	13	3295 ✓	205	3500	15-16	
17	16-17	1511	1823	212	8	3334 🏒	220	3554	16-17	
18	17-18	1679	2006	178	11	3685	189	3874	17-18	
19	18-19	1204	2163	173	9	3367	182	3549	18-19	
20	19-20	775	1727	109	9	2502	118	2620	19-20	
21	20-21	607	1321	49	1	1928	50	1978	20-2	
22	21-22	409	917	48	4	1326	52	1378	21-2	
23	22-23	324	547	22	1	871	23	894	22-2	
24	23-24	288	265	14	0	553	14	567	23-2	

TOTAL 18.400 28.803 3.058 181 47,203 3,239 50,442								
	TOTAL	18,400	28,803	3,058	181	47,203	3,239	50,442

STREET	ADT
CR 535	47,203
BLUEBIRD POND RD	3,239

HOUR VOLUME

ALL TRAFFIC ALL LANES

24 HOUR VOLUME SUMMARY

		CR	535	BLUEBIRD I	POND RD			1/11/2017	
NO	HOUR	NB LEFT	SB LEFT	EB LEFT	WB	(NB+SB)	(EB+WB)	TOTAL	HOUR
1	0-1	5	7	6	0	12	6	18	0-1
2	1-2	2	8	2	0	10	2	12	1-2
3	2-3	2	5	2	0	7	2	9	2-3
4	3-4	1	7	5	0	8	5	13	3-4
5	4-5	1	12	11	0	13	11	24	4-5
6	5-6	1	41	29	0	42	29	71	5-6
7	6-7	1	113	156 √	0	114	156	270	6-7
8	7-8	8	121	203 🗸	0	129	203	332	7-8
9	8-9	21	104	242 🗸	0	125	242	367	8-9
10	9-10	14	66	150 ✓	0	80	150	230	9-10
11	10-11	15	32	130	0	47	130	177	10-11
12	11-12	11	16	122	0	27	122	149	11-12
13	12-13	25	35	114	0	60	114	174	12-13
14	13-14	27	112	145 🗸	0	139	145	284	13-14
15	14-15	14	90	140 ✓	0	104	140	244	14-15
16	15-16	31	57	139 🗸	0	88	139	227	15-16
17	16-17	42	62	144 🗸	0	104	144	248	16-17
18	17-18	51	54	131	0	105	131	236	17-18
19	18-19	39	72	128	0	111	128	239	18-19
20	19-20	28	48	80	0	76	80	156	19-20
21	20-21	20	64	30	0	84	30	114	20-21
22	21-22	20	59	36	0	79	36	115	21-22
23	22-23	19	35	15	0	54	15	69	22-23
24	23-24	10	13	6	0	23	6	29	23-24

TOTAL	408	1,233	2,166	0	1,641	2,166	3,807

STREET	ADT
CR 535	1,641
BLUEBIRD POND RD	2,166

	HOUR	VOLUME
AM PEAK	8-9	367
PM PEAK	13-14	284

LEFT TURNS ONLY