	ALL-WAY	STOP WARRANT SUMMA	RY				
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	e assigned to each of these wa		ible are 100. T	he installation of an all-w			
Case 1:	s' criteria is met, the point syste	•					
	he five criteria is met to the ext ugh the minimum number of po		control intersec	ction may be warranted			
Case 3: If the follo	owing conditions are met:						
Code, and (b)The sti	(a)The street to be controlled is within a residence district as defined in Section 515 of the California Vehicle Code, and (b)The street to be controlled is classified a collector or is functioning as a collector, and (c)The subject intersection is not within 600 feet from the nearest controlled intersection along the collector, and						
The subje	ect intersection shall receive a l	oonus of 10 points.		POINTS: 0			
ALL-WAY STOP PO	OINT SYSTEM CRITERIA:						
1) ACCIDEN	NT WARRANT: (25 points)						
	ts are assigned for each accide riod prior to the investigation d		by an all-way st	top control during any 12			
		Total number of accide	ents correctible	by all-way stop:0			
(Maximu	m 25 points)			POINTS: 0			
2) UNUSUA	L CONDITION WARRANT: (21 points)					
(7 points a) b)	to school, fire station, playgroumaximum) within 100' of the intersection. between 101'-250' from the in between 251'-400' from the in	tersection.	usement park.	3 pts 7 points 5 points 3 points			
a)	within 500' of the intersection.			1 point			

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distance b	-	ing horizontal and/or vertion osted speed limit or the 85				nt
	400 190 x	100 = 211%	<u>></u> 100%	0 pts	;	
a)	provides for less tha	n 40% of the required sigh	t distance.		7	' points
b)	provides for less tha	n 50% of the required sigh	t distance.		6	points
c)	provides for less tha	n 60% of the required sigh	t distance.		5	points
d)	provides for less tha	n 70% of the required sigh	t distance.		4	points
		n 80% of the required sigh				B points
		n 90% of the required sigh				points
•	•	n 100 % of the required sig				point
3) An interse	ection leading to an a	rterial from an interior (circ	ular) collect	or 0 pts	; 2	2 points
4) Intersection	on with steen grades	within 500' from the interse	ection on the	e downhill annroach		
	greater than 9% grad			с чомпіні арргоасії.		points
•	greater than 8% grad			0 pts		points points
	greater than 7% grad			0 pts		points points
	greater than 6% grad					point
		Route To School" and no o	ther control	led crossing is locate	ed within 600	, .
	maximum)				_	
	intersection is 300' fi					points
	intersection is 400' for	<u>-</u>		0 pts		points
	intersection is 500' for	_				3 points
d)	intersection is 600' for	rom school grounds.			1	point
6) High appr	oach speeds.			1 pts	S	
		e up to 5 mph higher than				point
		e up to 10 mph higher thar				l points
c)	prevailing speeds ar	e more than 10 mph highe	r than poste	ed speed.	7	points
7) Adjacent						2 points
Public ma						2 points
School bu	ıs drop-off			2 pts	; 7	' points

		ALL-WAY	STOP WARRA	NT SUMMA	RY		
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3) PEDEST	RIAN VOLUM	E (20 points)					
Conside average	•	o large numbers	of pedestrians	crossing the	major street during	g the busiest hour of an	
Pe	eak Hour:	5/22/2019 4:00)pm-5:00pm	Number of	of Pedestrians:	0	
Pedestrians crossing major street, Total during the peak pedestrian hour							
Volumes Points	_	11-20 8	21-30 12	31-40 16	41-OVER 20		

4) TRAFFIC VOLUME (24 points) *

(Maximum 20 points)

Points are dependent upon the magnitude of vehicular volumes entering the intersection during the eight busiest hours of an average day.

POINTS: 0

Traffic Counts (circle eight highest hour volumes):

DIRECTION	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	TOTAL
NB	61	142	96	38	40	54	41	67	93	74	56	81	60	46	38	987
SB																0
SUBTOTAL	61	142	96	38	40	54	41	67	93	74	56	81	60	46	38	987
EB	258	610	472	352	395	457	471	475	754	821	762	766	580	502	333	8008
WB	212	499	460	288	269	334	347	310	441	663	470	479	401	292	250	5715
SUBTOTAL	470	1109	932	640	664	791	818	785	1195	1484	1232	1245	981	794	583	13723
TOTAL	531	1251	1028	678	704	845	859	852	1288	1558	1288	1326	1041	840	621	14710
POINTS		2	1					1	1	1	1	1	1			

- -3 POINTS ARE ASSIGNED PER HOUR WHEN TOTAL ENTERING VEHICULAR VOLUMES EXCEED 500 AND MINOR STREET VOLUMES (INCLUDING PEDESTRIANS) EXCEED 200.
- -2 POINTS ARE ASSIGNED PER HOUR WHEN TOTAL ENTERING VOLUMES EXCEED 500 BUT MINOR STREET VOLUMES ARE LESS THAN 200, BUT MORE THAN 100.
- -1 POINT IS ASSIGNED PER HOUR WHEN TOTAL ENTERING VEHICULAR VOLUMES EXCEED 500 BUT MINOR STREET VOLUMES ARE LESS THAN 100.
- -1 POINT IS ASSIGNED PER HOUR WHEN TOTAL ENTERING VEHICULAR VOLUMES DO NOT MEET 500, BUT MINOR STREET VOLUMES EXCEED 200.

In residence districts as defined by Section 515 CVC, if the 85th percentile approach speed of the major stre	ee
exceeds 35 miles per hour, the minimum vehicular volume warrants is 70% of the above requirements.	

(Maximum 24 points)	POINTS:	9

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5) TRAFFIC VOLUME DIFFERENCE (10 POINTS)

All-way stops operate best when the major and minor street approach traffic volumes are nearly equal. Points shall be assigned in accordance with the following table:

*24-Hour Minor St. Approach Volumes
$$x 100 = \frac{987}{5,715}$$
 $x 100 = 17.3\%$

95-100 10 85-94 9 75-84 8 65-74 7	PERCENTAGE PERCENTAGE	<u>POINTS</u>
75-84 8	95-100	10
	85-94	9
65-74 7	75-84	8
	65-74	7
55-64 6	55-64	6
45-54 5	45-54	5
35-44 4	35-44	4
25-34 3	25-34	3
15-24 2	15-24	2
5-14 1	5-14	1
0-4 0	0-4	0

(Maximum 10 points)

POINTS:

CALTRANS CRITERIA (CA MUTCD)

Any of the following conditions may warrant a multi-way STOP sign installation, regardless of the point system:

- 1) Where traffic signals are warranted and urgently needed, the multi-way stop may be an interim measure that can be installed quickly to control traffic while arrangements are being made for the signal installation.
- 2) An accident problem, as indicated by five or more reported accidents within a 12 month period of a type susceptible to correction by a multi-way stop installation. Such accidents include right- and left-turn collisions as well as right-angle collisions.
- 3) Minimum traffic volumes The total vehicular volume entering the intersection from all approaches must average at least 300 vehicles per hour for any 8 hours of an average day, and the combined vehicular, bicycle, and pedestrian volume from the minor street or highway must average at least 200 units per hour for the same 8 hours, with an average delay to minor street vehicular traffic of at least 30 seconds per vehicle during the maximum hour, but when the 85th percentile approach speed of the major street traffic exceeds 40 miles per hour (**), the minimum vehicular volume warrant is 70 percent of the above requirements.
 - (**) This speed applies only to Caltrans Criteria

^{*}For T-intersections, the percent is the ratio of the minor street approach volume to the highest single leg approach volume on the major street multiplied by one hundred.

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ALL-WAY STOP SUMMARY

INTERSECTION:	Naples St	First Ave	
-	(Major)	(Minor)	

DATE INVESTIGATION WAS COMPLETED: June 12, 2019

TOTAL SCORE: **17** points out of a possible 100. The minimum required to justify an all-way stop control is 45 points.

INTERSECTION DIAGRAM: *modified to close off Moss St for future fire station plans



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RECOMMENDATION	ONS:					
REMARKS:						
J:/Engineer/Traffic/	Staff/Susanm/All-Way Stop Studies	s/A-W Stop (Clubhouse -	Creekside).xls			