

*In accordance with latest CA MUTCD (2014)

**SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR ALL-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:
Watsonville Road
 Major Street

Day Road
 Minor Street

Date: 8/11/2021

All-way stop sign installation may be considered if **any** of the following conditions exist:

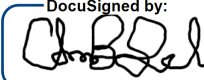
1. Volume	ADT	Yes/No	Warranted
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 veh/hr. for any 8-hrs of an average day (24-hr equivalent of 2400 veh/day, minimum) if 60% 1440	5667	<u>YES</u>	NO
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units/hr. for the same 8-hrs. (1600 veh/day, minimum) if 60% 960	495	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 40 mph (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 50	<u>YES</u>	
2. Collisions Five or more accidents of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	No. of Coll.		NO
	1	<u>NO</u>	
3. 80% Values for Volumes and Accidents (only if all below are met):	ADT		
a) 80% of 2400 veh/day = 1920	5667	<u>YES</u>	NO
b) 80% of 1600 veh/day = 1280	495	<u>NO</u>	
c) 80% of five accidents = 4	1	<u>NO</u>	
4. Visibility The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than 160 feet (50 m).	Distance		NO
	Good	<u>NO</u>	
5. Residential Area Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			Yes/No
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	YES
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 feet (12.5 m) of roadway width.		Yes/No	
d) No existing stop sign or signal is located on the more heavily traveled street within a distance of 800 feet (250 m).		Yes/No	
e) The intersection has four legs, with streets extending 800 feet (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

** SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Blake Kloczl
Reviewed By Clarence Salim, PE
 PE# C78873 Exp. 03/31/22

Date: 8/11/2021
Date: 8/23/2021

DocuSigned by:

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County of Santa Clara
All-Way Stop Warrant Study

Major street **Watsonville Road**
 Minor Street **Day Road**
 Date **8/11/2021**

of legs **3**

		Vol	ADT	ADT	
Leg #1 Major	In	2540	6237	6237	2540
	Out	3697			5667
Leg #2 Major	In	3127	5403	6237	3127
	Out	2276			
Leg #3 Minor	In	495	1297	1297	495
	Out	802			495
Leg #4 Minor	In	0	0	1297	0
	Out	0			
Total	In	6162			
Total	Out	6775			

85th % Speed **50**
 No of Accidents **1**

Existing Conditions

Watsonville Rd has existing posted speed limit of 45 mph Day Rd does not have existing speed limit

This intersection has existing One-Way Stop control for Day Rd approach Watsonville Rd.

Even with sparse residential frontages, justifies 60% traffic volume threshold.
Even though neither road has 25 mph speed limit, we will still allow residential analysis to be met.
85th speed of 50 mph justifies 70% traffic volume threshold.

As a result, major street entering traffic volume of 5667 VPD satisfies traffic volume threshold for All-Way Stop controls.

Minor street entering traffic volume of 495 VPD does not satisfy traffic volume threshold for All-Way Stop controls.

For Item 3 criteria conditions, entering volumes is given 80% volume threshold reduction per CA MUTCD.
Minor street entering volume and one collision does not justify All-way Stop Controls.

I do not recommend to modify existing One-Way Stop control due to criteria one, two, three, and four not being met.

Visibility: Good/Bad **Good**