

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

Location: Holsclaw Road  
Major Street  
Gilman Road  
Minor Street

Date: 4/16/2018

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

1. <u>Volume</u>	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average <b>500</b> vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately <b>3000</b> vehicles) <b>if 60% 1800</b>	<b>2185</b>	<u>YES</u>	<b>YES</b>
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least <b>1/3</b> of the total volume entering the intersection ( <b>200</b> per hour min.) <b>if 60% 437</b>	<b>1066</b>	<u>YES</u>	
c) When the 85th percentile approach speed exceeds <b>40 MPH</b> (64 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	<b>85 th % 40</b>	<u>YES</u>	
2. <u>Collisions</u>	No. of Coll.	Yes/No	Warranted
Four or more collisions of types susceptible to correction by stop signs within a <b>12-month</b> period, with satisfactory observance and enforcement of less restrictive control.	<b>0</b>	<u>NO</u>	<b>NO</b>
3. <u>Visibility</u>	Distance	Yes/No	Warranted
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than <b>160 ft</b> (50 m) for 25 mph (40 km/hr)	<b>Good</b>	<u>NO</u>	<b>NO</b>
4. <u>Residential Area</u>	Notes	Yes/No	Warranted
Volume warrants to be reduced to 60% of the values above if <b>all</b> of the following conditions are met:			
a) Both streets have residential frontage with existing <b>40 km/h</b> (25 MPH) speed limits.		Yes/No	<b>YES</b>
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds <b>40 ft.</b> (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 <b>800 ft.</b> (250 m)		Yes/No	
e) The intersection has three legs, with streets extending <b>800 ft.</b> (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is <b>compatible</b> with overall traffic circulation needs for the residential area.		Yes/No	

Warranted:  Yes  No

**\*\* SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)**

Prepared By Clarence Salim, PE  
Reviewed By Ananth Prasad, PE  
PE# C59176 Exp. 06/30/19

Date: 4/16/2018  
Date: \_\_\_\_\_

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

Location: Crews Road  
Major Street

Godfrey Avenue  
Minor Street

Date: 4/16/2018

**A. Stop sign installation may be considered if any two of the following conditions exist:**

1. <u>Volume</u>	ADT	Yes/No	Warranted
a) Total vehicular volume on the major street must be <b>500</b> vehicles per day or 50 vehicles per hour during the peak hour on an average day.	<u>191</u>	<u>NO</u>	Yes/No
b) Total vehicular volume on the minor street must be <b>250</b> vehicles per day or 25 vehicles per hour during the peak hour on an average day.	<u>256</u>	<u>YES</u>	<u>NO</u>
2. <u>Collisions</u>	No. of Coll.		Yes/No
Two or more collisions of types susceptible to correction by stop signs within a <b>12-month</b> period, Yield signs to be considered if no other warrant is met.	<u>0</u>	<u>NO</u>	<u>NO</u>
3. <u>Visibility</u>	C.A.S		Yes/No
Critical Approach Speeds on minor street less than 15 MPH	<u>10</u>	<u>YES</u>	<u>YES</u>
4. <u>Unusual Conditions</u>	MPH		Yes/No
Where the prevailing 85th percentile speeds are greater than (25 MPH or 40 km/hr) and/or where unusual conditions exist (such as schools, playground, steep hill, etc)	<u>42</u>	<u>YES</u>	Yes/No
	<b>Unusual Conditions</b>	<u>YES</u>	<u>YES</u>
	<b>YES</b>		

**B. Stop sign installation may be considered if any one of the following conditions exist**

1. <u>Volume</u>	ADT	Yes/No	Warranted
a) Total vehicular volume on the major street must be <b>1000</b> vehicles per day or 100 vehicles per hour during the peak hour on an average day.	<u>191</u>	<u>NO</u>	Yes/No
b) Total vehicular volume on the minor street must be <b>500</b> vehicles per day or 50 vehicles per hour during the peak hour on an average day.	<u>256</u>	<u>NO</u>	<u>NO</u>
2. <u>Collisions</u>	No. of Coll.		Yes/No
One or more collisions of types susceptible to correction by stop signs within a <b>12-month</b> period.	<u>0</u>	<u>NO</u>	<u>NO</u>
3. <u>Visibility</u>	C.A.S		Yes/No
Critical Approach Speeds on minor street less than 10 MPH	<u>10</u>	<u>YES</u>	<u>YES</u>
4. <u>Through Highway</u>	Thr. Hwy.		Yes/No
Is the minor street entering a through highway or street?	<u>YES</u>	<u>YES</u>	<u>YES</u>

Warranted:  Yes  No

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Notes: Uncontrolled T-intersection, with ex. W1-7/Type N installation for Godfrey Ave approach to Crews Rd. 85th percentile speed of 42 mph.

Narrow roadway conditions with mostly off-street parking at residential properties, No sidewalks present. Dirt shoulders.  
Recommend to install One-way Stop control for Godfrey Ave approach to Crews Rd.

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

**Location:** Leavesley Road  
Major Street

New Avenue  
Minor Street

**Date:** 4/16/2018

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

<b>1. Volume</b>	<b>ADT</b>	<b>Yes/No</b>	<b>Warranted</b>
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least <b>300</b> veh/hr. for any 8-hrs of an average day (24-hr equivalent of <b>2400</b> veh/day, minimum) <b>if 70% 1680</b>	<b>10617</b>	<b>YES</b>	<b>YES</b>
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least <b>200</b> units/hr. for the same 8-hrs. ( <b>1600</b> veh/day, minimum) <b>if 70% 1120</b>	<b>2033</b>	<b>YES</b>	
c) When the 85th percentile approach speed exceeds <b>40 mph</b> (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	<b>85 th %</b> <b>57</b>	<b>YES</b>	
<b>2. Collisions</b> Five or more collisions of types susceptible to correction by stop signs within a <b>12-month</b> period, with satisfactory observance and enforcement of less restrictive control.	<b>No. of Coll.</b> <b>2</b>	<b>NO</b>	<b>NO</b>
<b>3. 80% Values for Volumes and Accidents</b> (only if <b>all</b> below are met):	<b>ADT</b>		
a) 80% of 2400 veh/day = <b>1920</b>	<b>10617</b>	<b>YES</b>	<b>NO</b>
b) 80% of 1600 veh/day = <b>1280</b>	<b>2033</b>	<b>YES</b>	
c) 80% of five accidents = <b>4</b>	<b>2</b>	<b>NO</b>	
<b>4. Visibility</b> The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than <b>160 feet</b> (50 m).	<b>Distance</b> <b>Good</b>	<b>NO</b>	<b>NO</b>
<b>5. Residential Area</b> Volume warrants to be reduced to 60% of the values above if <b>all</b> of the following conditions are met:			<b>Yes/No</b>
a) Both streets have residential frontage with existing <b>25 MPH</b> (40 km/h) speed limits.		Yes/No	<b>NO</b>
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds <b>40 feet</b> (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 <b>800 feet</b> (250 m).		Yes/No	
e) The intersection has four legs, with streets extending <b>800 feet</b> (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of a All-way stop is <b>compatible</b> with overall traffic circulation needs for the residential area.		Yes/No	

Warranted:  Yes  No

\*\* SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

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Reviewed By Ananth Prasad, PE  
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Date: \_\_\_\_\_

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

**Location:**  
Watsonville Road  
 Major Street  
Uvas Road  
 Minor Street

**Date:** 4/16/2018

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

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
<b>1. Volume</b>			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least <b>300</b> veh/hr. for any 8-hrs of an average day (24-hr equivalent of <b>2400</b> veh/day, minimum) <span style="float:right">if 70% <b>1680</b></span>	<b>5979</b>	<u>YES</u>	<b>YES</b>
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least <b>200</b> units/hr. for the same 8-hrs. ( <b>1600</b> veh/day, minimum) <span style="float:right">if 70% <b>1120</b></span>	<b>1912</b>	<u>YES</u>	
c) When the 85th percentile approach speed exceeds <b>40 mph</b> (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	<b>85 th %</b> <b>52</b>	<u>YES</u>	
<b>2. Collisions</b>	<u>No. of Coll.</u>		
Five or more collisions of types susceptible to correction by stop signs within a <b>12-month</b> period, with satisfactory observance and enforcement of less restrictive control.	<b>2</b>	<u>NO</u>	<b>NO</b>
<b>3. 80% Values for Volumes and Accidents</b> (only if <b>all</b> below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = <span style="float:right"><b>1920</b></span>	<b>5979</b>	<u>YES</u>	
b) 80% of 1600 veh/day = <span style="float:right"><b>1280</b></span>	<b>1912</b>	<u>YES</u>	<b>NO</b>
c) 80% of five accidents = <span style="float:right"><b>4</b></span>	<b>2</b>	<u>NO</u>	
<b>4. Visibility</b>	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than <b>160 feet</b> (50 m).	<b>Good</b>	<u>NO</u>	<b>NO</b>
<b>5. Residential Area</b>			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if <b>all</b> of the following conditions are met:			<b>NO</b>
a) Both streets have residential frontage with existing <b>25 MPH</b> (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds <b>40 feet</b> (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 <b>800 feet</b> (250 m).		Yes/No	
e) The intersection has four legs, with streets extending <b>800 feet</b> (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is <b>compatible</b> with overall traffic circulation needs for the residential area.		Yes/No	

Warranted:  Yes  No

\*\* SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE  
 Reviewed By Ananth Prasad, PE  
 PE# C59176 Exp. 06/30/19

Date: 4/16/2018  
 Date: \_\_\_\_\_

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

**Location:**  
Rucker Avenue  
 Major Street  
  
Center Avenue  
 Minor Street

**Date:** 4/30/2018

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

	<u>ADT</u>	<u>Yes/No</u>	<u>Warranted</u>
<b>1. Volume</b>			
a) The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least <b>300</b> veh/hr. for any 8-hrs of an average day (24-hr equivalent of <b>2400</b> veh/day, minimum) <span style="float:right">if 60% <b>1440</b></span>	1441	<u>YES</u>	<u>YES</u>
b) The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least <b>200</b> units/hr. for the same 8-hrs. ( <b>1600</b> veh/day, minimum) <span style="float:right">if 60% <b>960</b></span>	1318	<u>YES</u>	
c) When the 85th percentile approach speed exceeds <b>40 mph</b> (65 km/h), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 47	<u>YES</u>	
<b>2. Collisions</b>	<u>No. of Coll.</u>		
Five or more accidents of types susceptible to correction by stop signs within a <b>12-month</b> period, with satisfactory observance and enforcement of less restrictive control.	3	<u>NO</u>	<u>NO</u>
<b>3. 80% Values for Volumes and Accidents</b> (only if <b>all</b> below are met):	<u>ADT</u>		
a) 80% of 2400 veh/day = <span style="float:right"><b>1920</b></span>	1441	<u>NO</u>	<u>NO</u>
b) 80% of 1600 veh/day = <span style="float:right"><b>1280</b></span>	1318	<u>YES</u>	
c) 80% of five accidents = <span style="float:right"><b>4</b></span>	3	<u>NO</u>	
<b>4. Visibility</b>	<u>Distance</u>		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than <b>160 feet</b> (50 m).	Good	<u>NO</u>	<u>NO</u>
<b>5. Residential Area</b>			<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if <b>all</b> of the following conditions are met:			<u>YES</u>
a) Both streets have residential frontage with existing <b>25 MPH</b> (40 km/h) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds <b>40 feet</b> (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 <b>800 feet</b> (250 m).		Yes/No	
e) The intersection has four legs, with streets extending <b>800 feet</b> (250 m) or more away from the intersection on at least three sides.		Yes/No	
f) Installation of All-way stop is <b>compatible</b> with overall traffic circulation needs for the residential area.		Yes/No	

Warranted:  Yes  No

\*\* SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)

Prepared By Clarence Salim, PE  
 Reviewed By Ananth Prasad, PE  
 PE# C59176 Exp. 06/30/19

Date: 4/30/2018  
 Date: \_\_\_\_\_

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

**Location:** Masten Avenue  
Major Street

Center Avenue  
Minor Street

**Date:** 4/23/2018

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

<b>1. Volume</b>	<b>ADT</b>	<b>Yes/No</b>	<b>Warranted</b>
a) Total vehicular volume entering the intersection from all approaches must average <b>500</b> vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately <b>3000</b> vehicles) <b>if 60% 1800</b>	<b>3938</b>	<b>YES</b>	<b>YES</b>
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least <b>1/3</b> of the total volume entering the intersection ( <b>200</b> per hour min.) <b>if 60% 788</b>	<b>1726</b>	<b>YES</b>	
c) When the 85th percentile approach speed exceeds <b>64 km/h</b> (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	<b>85 th % 49</b>	<b>YES</b>	
<b>2. Collisions</b> Four or more collisions of types susceptible to correction by stop signs within a <b>12-month</b> period, with satisfactory observance and enforcement of less restrictive control.	<b>No. of Coll. 1</b>	<b>NO</b>	<b>NO</b>
<b>3. Visibility</b> The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than <b>160 ft</b> (50 m) for 25 mph (40 km/hr)	<b>Distance Good</b>	<b>NO</b>	<b>NO</b>
<b>4. Residential Area</b> Volume warrants to be reduced to 60% of the values above if <b>all</b> of the following conditions are met: a) Both streets have residential frontage with existing <b>40 km/h</b> (25 MPH) speed limits. b) Neither street is an adopted through street. c) Neither street exceeds <b>40 ft.</b> (12.5 m) of roadway width. d) No existing stop sign or signal is located on the more heavily traveled street within a distance of <b>800 ft.</b> (250 m) e) The intersection has three legs, with streets extending <b>800 ft.</b> (250 m) or more away from the intersection on at least two sides. f) Installation of a three-way stop is <b>compatible</b> with overall traffic circulation needs for the residential area.	<b>Notes</b>	Yes/No  Yes/No Yes/No Yes/No  Yes/No	Yes/No <b>YES</b>

Warranted:  Yes  No

**\*\* SEE EXISTING CONDITIONS COMMENTS (DATA INPUT SHEET)**

**Prepared By** Clarence Salim, PE  
**Reviewed By** Ananth Prasad, PE  
PE# C59176 Exp. 06/30/19

**Date:** 4/23/2018  
**Date:** \_\_\_\_\_