

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

Location: Ferguson Road
Major Street

Crews Road
Minor Street

Date: 4/16/2018

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

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately 3000 vehicles) if 60% 1800	10096	YES	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 2019	263	NO	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH) , the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 57	YES	
2. Collisions	No. of Coll.		
Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	0	NO	NO
3. Visibility	Distance		
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 ft (50 m) for 25 mph (40 km/hr)	Good	NO	NO
4. Residential Area	Notes		Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			YES
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (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 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-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 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:

Date: 4/16/2018

Ferguson Road
Major Street

Dunlap Avenue/Godfrey Avenue
Minor Street

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 70% 1680	9856	YES	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 70% 1120	967	NO	
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 % 57	YES	
2. Collisions	No. of Coll.		NO
Five or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	2	NO	
3. 80% Values for Volumes and Accidents (only if all below are met):	ADT		
a) 80% of 2400 veh/day = 1920	9856	YES	NO
b) 80% of 1600 veh/day = 1280	967	NO	
c) 80% of five accidents = 4	2	NO	
4. Visibility	Distance		NO
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).	Good	NO	
5. Residential Area			Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			NO
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
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 Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/16/2018
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**COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT
WARRANTS FOR THREE-WAY STOP SIGN INSTALLATION
(Low Volume Streets)**

Location:

Date: 4/16/2018

Leavesley Road/Ferguson Road
Major Street

Leavesley Road
Minor Street

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

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately 3000 vehicles) if 60% 1800	10618	YES	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 2124	286	NO	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 57	YES	
2. Collisions Four or more collisions 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. 0	NO	NO
3. 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 ft (50 m) for 25 mph (40 km/hr)	Distance Good	NO	NO
4. Residential Area Volume warrants to be reduced to 60% of the values above if all of the following conditions are met: a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits. b) Neither street is an adopted through street. c) Neither street exceeds 40 ft. (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 800 ft. (250 m) e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides. f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.	Notes	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No	Yes/No YES

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: _____

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

Location: Leavesley Road
Major Street

Marcella Avenue
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 <u>500</u> vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately <u>3000</u> vehicles) if 70% 2100	11290	<u>YES</u>	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least <u>1/3</u> of the total volume entering the intersection (<u>200</u> per hour min.) if 70% 2634	278	<u>NO</u>	
c) When the 85th percentile approach speed exceeds <u>64 km/h</u> (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 57	<u>YES</u>	
2. Collisions Four or more collisions of types susceptible to correction by stop signs within a <u>12-month</u> period, with satisfactory observance and enforcement of less restrictive control.	No. of Coll. 0	<u>NO</u>	NO
3. 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 <u>160 ft</u> (50 m) for 25 mph (40 km/hr)	Distance Good	<u>NO</u>	NO
4. Residential Area Volume warrants to be reduced to 60% of the values above if <u>all</u> of the following conditions are met: a) Both streets have residential frontage with existing <u>40 km/h</u> (25 MPH) speed limits. b) Neither street is an adopted through street. c) Neither street exceeds <u>40 ft.</u> (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 <u>800 ft.</u> (250 m) e) The intersection has three legs, with streets extending <u>800 ft.</u> (250 m) or more away from the intersection on at least two sides. f) Installation of a three-way stop is <u>compatible</u> with overall traffic circulation needs for the residential area.	Notes	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No	Yes/No 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: _____

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

Location:

Date: 4/16/2018

Marcella Avenue
Major Street

Las Animas Avenue
Minor Street

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

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 70% 2100	1066	<u>NO</u>	<u>NO</u>
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 70% 249	292	<u>YES</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 45	<u>YES</u>	
2. Collisions	No. of Coll.		<u>NO</u>
Four 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.	0	<u>NO</u>	
3. Visibility	Distance		<u>NO</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 160 ft (50 m) for 25 mph (40 km/hr)	Good	<u>NO</u>	
4. Residential Area	Notes		<u>Yes/No</u>
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			<u>NO</u>
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (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 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

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Reviewed By Ananth Prasad, PE
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Date: 4/16/2018
Date: _____

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

Location: Buena Vista Avenue
Major Street

Marcella Avenue
Minor Street

Date: 4/23/2018

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

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately 3000 vehicles) if 70% 2100	1610	<u>NO</u>	<u>NO</u>
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 70% 376	239	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 48	<u>YES</u>	
2. Collisions	No. of Acc.		<u>NO</u>
Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	1	<u>NO</u>	
3. Visibility	Distance		<u>NO</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 160 ft (50 m) for 25 mph (40 km/hr)	Good	<u>NO</u>	
4. Residential Area	Notes		Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			<u>No</u>
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (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 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

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

Date: 4/23/2018
Date: _____

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

Location:
Buena Vista Avenue
 Major Street
Foothill Avenue
 Minor Street

Date: 4/23/2018

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

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 60% 1800	1447	NO	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 289	221	NO	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 48	YES	
2. Collisions Four or more collisions 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. 0	NO	NO
3. 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 ft (50 m) for 25 mph (40 km/hr)	Distance Good	NO	NO
4. Residential Area Volume warrants to be reduced to 60% of the values above if all of the following conditions are met: a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits. b) Neither street is an adopted through street. c) Neither street exceeds 40 ft. (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 800 ft. (250 m) e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides. f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.	Notes	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No	Yes/No YES

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: _____

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

Location: Watsonville Road
Major Street

Day 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 <u>500</u> vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately <u>3000</u> vehicles) if 70% 2100	6636	<u>YES</u>	<u>NO</u>
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least <u>1/3</u> of the total volume entering the intersection (<u>200</u> per hour min.) if 70% 1548	595	<u>NO</u>	
c) When the 85th percentile approach speed exceeds <u>64 km/h</u> (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 52	<u>YES</u>	
2. <u>Collisions</u>	No. of Coll.		
Four or more collisions of types susceptible to correction by stop signs within a <u>12-month</u> period, with satisfactory observance and enforcement of less restrictive control.	0	<u>NO</u>	<u>NO</u>
3. <u>Visibility</u>	Distance		
The straight line sight distance on one or more approaches of the major street for vehicles or pedestrians crossing the intersection is less than <u>160 ft</u> (50 m) for 25 mph (40 km/hr)	Good	<u>NO</u>	<u>NO</u>
4. <u>Residential Area</u>	Notes		Yes/No
Volume warrants to be reduced to 60% of the values above if <u>all</u> of the following conditions are met:			
a) Both streets have residential frontage with existing <u>40 km/h</u> (25 MPH) speed limits.		Yes/No	<u>NO</u>
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds <u>40 ft.</u> (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 <u>800 ft.</u> (250 m)		Yes/No	
e) The intersection has three legs, with streets extending <u>800 ft.</u> (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-way stop is <u>compatible</u> with overall traffic circulation needs for the residential area.		Yes/No	

Warranted: Yes No

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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:

Date: 4/30/2018

New Avenue
Major Street

Roop Road
Minor Street

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	4202	YES	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	940	NO	
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 % 52	YES	
2. Accidents 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 Acc. 2	NO	NO
3. 80% Values for Volumes and Accidents (only if all below are met):	ADT		
a) 80% of 2400 veh/day = 1920	4202	YES	NO
b) 80% of 1600 veh/day = 1280	940	NO	
c) 80% of five accidents = 4	2	NO	
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 Good	NO	NO
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 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:

Date: 4/23/2018

New Avenue
Major Street

Buena Vista Avenue
Minor Street

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 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 70% 2100	4828	<u>YES</u>	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 70% 1127	594	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 52	<u>YES</u>	
2. <u>Collisions</u>	No. of Coll.		
Four 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.	1	<u>NO</u>	NO
3. <u>Visibility</u>	Distance		
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 ft (50 m) for 25 mph (40 km/hr)	Good	<u>NO</u>	NO
4. <u>Residential Area</u>	Notes	Yes/No	Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			NO
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (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 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-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 Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____

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

Location: New Avenue
Major Street

Rucker Avenue
Minor Street

Date: 4/23/2018

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 500 vehicles per hour for any 6 hours of an average day.(24-hour equivalent of approximately 3000 vehicles) if 60% 1800	4236	<u>YES</u>	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 847	809	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 52	<u>YES</u>	
2. <u>Collisions</u>	No. of Coll.		
Four or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	0	<u>NO</u>	NO
3. <u>Visibility</u>	Distance		
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 ft (50 m) for 25 mph (40 km/hr)	Good	<u>NO</u>	NO
4. <u>Residential Area</u>	Notes		Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	YES
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (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 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-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 Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____

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

Location:

Date: 4/30/2018

Rucker Avenue
Major Street

Foothill Avenue
Minor Street

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	1875	YES	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	488	NO	
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 % 46	YES	
2. Collisions	No. of Coll.		
Five or more collisions of types susceptible to correction by stop signs within a 12-month period, with satisfactory observance and enforcement of less restrictive control.	1	NO	NO
3. 80% Values for Volumes and Accidents (only if all below are met):	ADT		
a) 80% of 2400 veh/day = 1920	1875	NO	NO
b) 80% of 1600 veh/day = 1280	488	NO	
c) 80% of five accidents = 4	1	NO	
4. Visibility	Distance		
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).	Good	NO	NO
5. Residential Area			Yes/No
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			YES
a) Both streets have residential frontage with existing 25 MPH (40 km/h) speed limits.		Yes/No	
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 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: No Name Uno
Major Street

Rucker Avenue
Minor Street

Date: 4/23/2018

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

1. Volume	ADT	Yes/No	Warranted
a) Total vehicular volume entering the intersection from all approaches must average 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 70% 2100	3441	<u>YES</u>	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 70% 803	785	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 42	<u>YES</u>	
2. Collisions Four or more collisions 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. 1	<u>NO</u>	NO
3. 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 ft (50 m) for 25 mph (40 km/hr)	Distance Good	<u>NO</u>	NO
4. Residential Area Volume warrants to be reduced to 60% of the values above if all of the following conditions are met: a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits. b) Neither street is an adopted through street. c) Neither street exceeds 40 ft. (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 800 ft. (250 m) e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides. f) Installation of a three-way stop is compatible with overall traffic circulation needs for the residential area.	Notes	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No	Yes/No 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: 4/23/2018
Date: _____

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

Location: Masten Avenue
Major Street
Columbet Avenue
Minor Street

Date: 4/23/2018

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 500 vehicles per hour for any 6 hours of an average day. (24-hour equivalent of approximately 3000 vehicles) if 60% 1800	5608	<u>YES</u>	NO
b) In addition, the vehicular volume entering the intersection from the minor street or streets for the same 6 hours must average at least 1/3 of the total volume entering the intersection (200 per hour min.) if 60% 1122	766	<u>NO</u>	
c) When the 85th percentile approach speed exceeds 64 km/h (40 MPH), the minimum vehicular volume warrant is 70% of the above requirements.	85 th % 49	<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 12-month period, with satisfactory observance and enforcement of less restrictive control.	1	<u>NO</u>	NO
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 160 ft (50 m) for 25 mph (40 km/hr)	Good	<u>NO</u>	NO
4. <u>Residential Area</u>	Notes	Yes/No	Warranted
Volume warrants to be reduced to 60% of the values above if all of the following conditions are met:			
a) Both streets have residential frontage with existing 40 km/h (25 MPH) speed limits.		Yes/No	YES
b) Neither street is an adopted through street.		Yes/No	
c) Neither street exceeds 40 ft. (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 ft. (250 m)		Yes/No	
e) The intersection has three legs, with streets extending 800 ft. (250 m) or more away from the intersection on at least two sides.		Yes/No	
f) Installation of a three-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 Clarence Salim, PE
Reviewed By Ananth Prasad, PE
PE# C59176 Exp. 06/30/19

Date: 4/23/2018
Date: _____