

TRAFFIC ENGINEERING STAFF REPORT

Agenda Item 4.c. All-Way Stop – Monroe Street at Larson Avenue January 4, 2011

Objective

To consider a request to install an all-way stop at the intersection of Monroe Street and Larson Avenue.

Background

A request was made by Mr. Joe Vieira at 13122 Monroe to install an all-way stop at the intersection of Monroe and Larson. The intersection is currently controlled by a stop sign on Monroe. Mr. Vieira believes there is a speeding problem on Larson and noted that there were a couple of recent accidents at this location.

Discussion

In order for a residential intersection to qualify for an all-way stop, it must satisfy a minimum of two of four established warrants. The warrants address sight visibility, distance between locations, traffic volumes and accidents.

Staff collected traffic volumes, reviewed the collision history and field checked the area. Only one of the four warrants was satisfied.

Recommendation

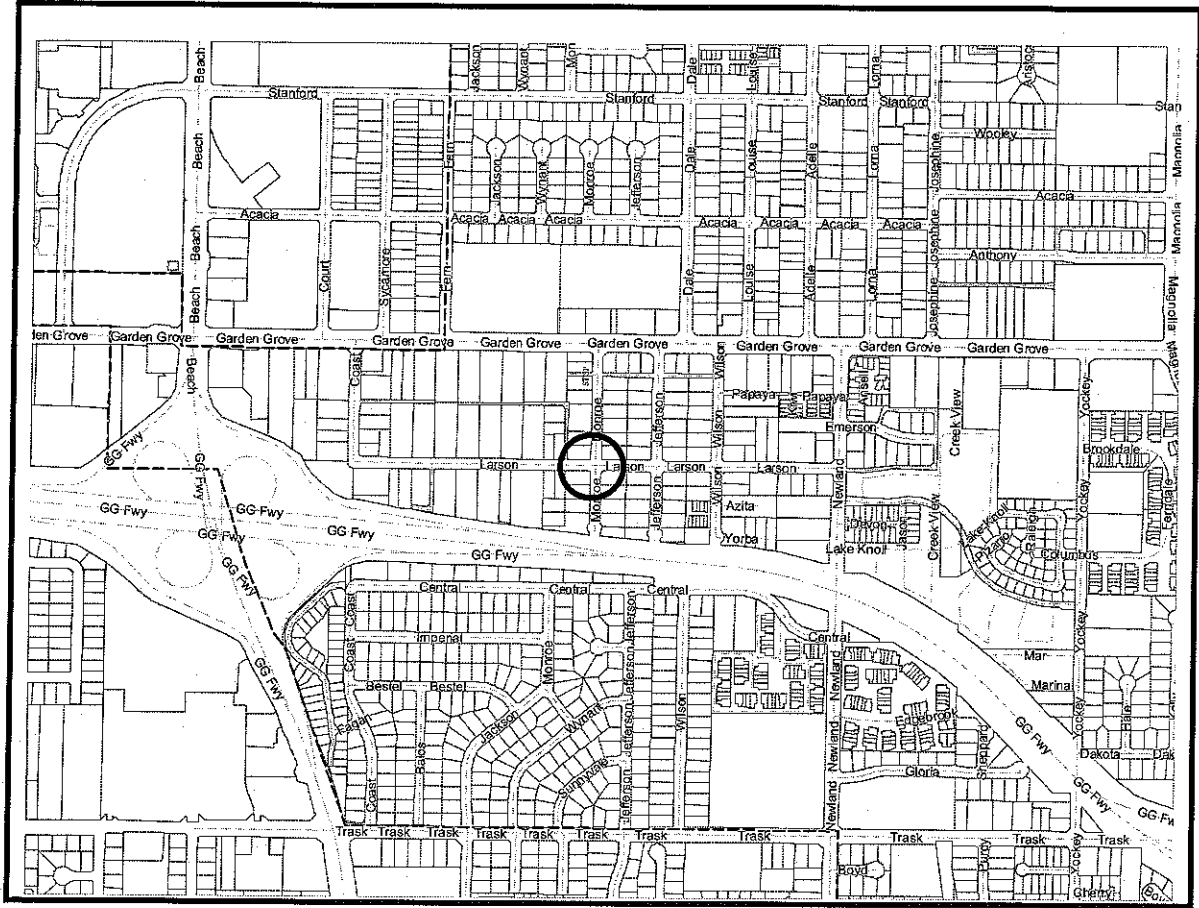
It is recommended that the Traffic Commission receive public input and not approve the installation of an all-way stop at the intersection of Monroe Street and Larson Avenue.



Dan Candelaria, P.E., T.E.
Executive Secretary

Attachments: Vicinity Map
Residential All-Way Stop Warrant Study
Traffic Volumes
Collision History

LOCATION MAP



Agenda Item 4.c



LARSON/MONROE

TRAFFIC ENGINEERING POLICY 43 (REVISED) ALL-WAY STOP SIGN WARRANT RESIDENTIAL

GUIDELINES

The purpose of these guidelines is to regulate the flow of traffic within residential area intersections.

Installation of an all-way stop must be compatible with the overall traffic circulation needs for the residential area.

The City recognizes that all-way stop controls do not reduce speed and is not a substitute for other traffic control devices. Many times the need for a STOP sign can be eliminated if the sight distance is increased by removing obstructions. The installation of STOP signs at locations where they are unexpected should be avoided if possible because they may increase accidents. Their purpose is to assign right-of-way for pedestrians and vehicles.

A residential area is defined when the following conditions have been met:

- (a) Both streets have residential frontage
- (b) Both streets have a speed limit of 25 mph
- (c) Neither street exceeds 40 feet of roadway width

Upon receipt of a letter requesting a stop sign, the City Traffic Engineer will oversee the analysis requisite for its installation.

The following warrants are to be used when considering the installation of an all-way stop within a residential area. The satisfaction of any two of these warrants provides a basis for the City Traffic Engineer to recommend to the Traffic Commission that stop signs be installed.

Severely Restricted Visibility

*Satisfied when available visibility is less than 100 feet of straight line of sight distance on the higher volume street for pedestrians and vehicles crossing the intersection.

Satisfied Yes _____ No X

TEP: [unclear]
11/29/00

Distance Between Locations

Satisfied if location is greater than 660 feet from the nearest traffic control.

Satisfied Yes _____ No X

Traffic Volume

**Satisfied when the total vehicular volume entering the intersection from all approaches must average at least 100 vehicles per hour for any 8 hours of an average day.

Satisfied Yes X No _____

Accidents

Satisfied if in the opinion of the City Traffic Engineer the risks of an accident are significant.

Satisfied Yes _____ No X

* - If reasonable measures can be taken to remove the impairment, a work order should be executed outlining the removal. This may eliminate the need for stop signs.

** - Traffic volumes of the intersecting roads should be approximately equal.

If after installation of an all-way stop, it is determined that compliance is less than 85 percent, the all-way stop control may be removed.

Should an intersection not warrant the installation of an all-way stop, the City Traffic Engineer, at his discretion, may have stop signs installed on the side street(s) to clarify right-of-way assignment.

LOCATION - MONROE ST @ LARSON

15 MINUTE VOLUMES

AM						PM					
TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL	TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL
12:00 - 12:15	0	3	0	1	4	12:00 - 12:15	4	9	3	13	29
12:15 - 12:30	1	6	3	3	13	12:15 - 12:30	10	10	8	10	38
12:30 - 12:45	1	4	0	1	6	12:30 - 12:45	8	16	8	12	44
12:45 - 1:00	3	1	0	0	4	12:45 - 1:00	4	36	4	12	56
1:00 - 1:15	1	6	3	1	11	1:00 - 1:15	20	19	4	9	52
1:15 - 1:30	3	3	0	4	10	1:15 - 1:30	12	26	0	14	52
1:30 - 1:45	0	2	0	1	3	1:30 - 1:45	8	14	0	8	30
1:45 - 2:00	1	0	2	0	3	1:45 - 2:00	8	13	4	10	35
2:00 - 2:15	2	0	1	0	3	2:00 - 2:15	6	13	4	11	34
2:15 - 2:30	1	0	1	0	2	2:15 - 2:30	11	14	6	7	38
2:30 - 2:45	1	0	0	0	1	2:30 - 2:45	10	18	8	12	48
2:45 - 3:00	1	0	3	1	5	2:45 - 3:00	10	14	2	6	32
3:00 - 3:15	1	0	1	1	3	3:00 - 3:15	12	20	5	8	45
3:15 - 3:30	1	0	1	0	2	3:15 - 3:30	4	12	2	8	26
3:30 - 3:45	0	2	0	0	2	3:30 - 3:45	13	12	8	16	49
3:45 - 4:00	0	0	0	0	0	3:45 - 4:00	14	14	10	12	50
4:00 - 4:15	1	0	0	0	1	4:00 - 4:15	1	20	4	10	35
4:15 - 4:30	1	1	2	0	4	4:15 - 4:30	3	16	6	9	34
4:30 - 4:45	0	0	1	1	2	4:30 - 4:45	12	8	6	12	38
4:45 - 5:00	1	4	0	0	5	4:45 - 5:00	12	10	0	10	32
5:00 - 5:15	0	0	0	5	5	5:00 - 5:15	12	18	4	13	47
5:15 - 5:30	0	1	0	4	5	5:15 - 5:30	8	18	4	8	38
5:30 - 5:45	3	3	1	6	13	5:30 - 5:45	11	14	5	14	44
5:45 - 6:00	8	3	0	6	17	5:45 - 6:00	14	21	4	18	57
6:00 - 6:15	4	6	0	6	16	6:00 - 6:15	14	10	4	19	47
6:15 - 6:30	6	4	0	7	17	6:15 - 6:30	8	22	2	10	42
6:30 - 6:45	4	7	3	11	25	6:30 - 6:45	10	12	4	5	31
6:45 - 7:00	5	4	1	9	19	6:45 - 7:00	7	14	8	20	49
7:00 - 7:15	8	11	0	14	33	7:00 - 7:15	6	23	2	13	44
7:15 - 7:30	10	15	2	28	55	7:15 - 7:30	6	4	4	8	22
7:30 - 7:45	12	17	0	43	72	7:30 - 7:45	10	22	11	9	52
7:45 - 8:00	7	18	0	31	56	7:45 - 8:00	8	25	3	12	48
8:00 - 8:15	15	33	4	25	77	8:00 - 8:15	8	12	0	9	29
8:15 - 8:30	14	16	4	17	51	8:15 - 8:30	15	15	0	13	43
8:30 - 8:45	6	16	6	16	44	8:30 - 8:45	8	12	7	10	37
8:45 - 9:00	8	12	0	12	32	8:45 - 9:00	10	10	4	2	26
9:00 - 9:15	5	16	6	11	38	9:00 - 9:15	4	7	8	4	23
9:15 - 9:30	7	12	16	2	37	9:15 - 9:30	4	11	6	8	29
9:30 - 9:45	6	8	8	12	34	9:30 - 9:45	4	9	6	4	23
9:45 - 10:00	7	13	5	10	35	9:45 - 10:00	10	7	4	5	26
10:00 - 10:15	3	12	3	14	32	10:00 - 10:15	6	9	4	5	24
10:15 - 10:30	4	8	0	7	19	10:15 - 10:30	2	4	4	5	15
10:30 - 10:45	14	16	4	10	44	10:30 - 10:45	2	6	4	3	15
10:45 - 11:00	3	8	4	13	28	10:45 - 11:00	3	3	0	4	10
11:00 - 11:15	18	17	4	7	46	11:00 - 11:15	2	7	2	0	11
11:15 - 11:30	5	11	2	9	27	11:15 - 11:30	6	7	0	1	14
11:30 - 11:45	13	17	4	12	46	11:30 - 11:45	2	4	2	2	10
11:45 - 12:00	8	13	2	18	41	11:45 - 12:00	2	2	2	0	6
TOTALS						607	991	297	812	2,707	

LOCATION - MONROE ST @ LARSON

HOURLY VOLUMES

AM						PM					
TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL	TIME	N. LEG (SB)	E. LEG (WB)	S. LEG (NB)	W. LEG (EB)	TOTAL
12:00 - 1:00	5	14	3	5	27	12:00 - 1:00	26	71	23	47	167
1:00 - 2:00	5	11	5	6	27	1:00 - 2:00	48	72	8	41	169
2:00 - 3:00	5	0	5	1	11	2:00 - 3:00	37	59	20	36	152
3:00 - 4:00	2	2	2	1	7	3:00 - 4:00	43	58	25	44	170
4:00 - 5:00	3	5	3	1	12	4:00 - 5:00	28	54	16	41	139
5:00 - 6:00	11	7	1	21	40	5:00 - 6:00	45	71	17	53	186
6:00 - 7:00	19	21	4	33	77	6:00 - 7:00	39	58	18	54	169
7:00 - 8:00	37	61	2	116	216	7:00 - 8:00	30	74	20	42	166
8:00 - 9:00	43	77	14	70	204	8:00 - 9:00	41	49	11	34	135
9:00 - 10:00	25	49	35	35	144	9:00 - 10:00	22	34	24	21	101
10:00 - 11:00	24	44	11	44	123	10:00 - 11:00	13	22	12	17	64
11:00 - 12:00	44	58	12	46	160	11:00 - 12:00	12	20	6	3	41
TOTALS							607	991	297	812	2,707

North Leg (SB) - - WEDNESDAY 10/27/10 TO WEDNESDAY 10/27/10

East Leg (WB) - - WEDNESDAY 10/27/10 TO WEDNESDAY 10/27/10

South Leg (NB) - - WEDNESDAY 10/27/10 TO WEDNESDAY 10/27/10

West Leg (EB) - - WEDNESDAY 10/27/10 TO WEDNESDAY 10/27/10

**City of Garden Grove
Traffic Engineering Department**

Traffic Collision History Report

11/3/2010
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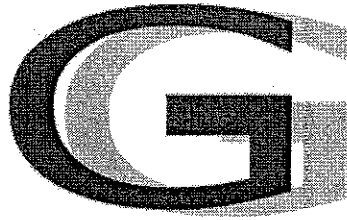
Location: Larson Avenue / Monroe Street
Date Range Reported: 5/20/2004 - 5/20/2009
Total Number of Collisions: 2

Report No.	Date	Time	Dist.	Dir.	Type of Collision	Motor Veh. Involved With	Direct. of Travel 1	Movement Prec. Coll. 1	Direct. of Travel 2	Movement Prec. Coll. 2	PCF	Inj.	Kil
1668374	9/6/04	16:42	0	In Int.	Broadside	Other Motor Vehicle	West	Proceeding Straight	South	Making Left Turn	Auto R/W Violation	3	0
2588780	3/28/06	08:36	0	In Int.	Broadside	Other Motor Vehicle	South	Proceeding Straight	South	Making Left Turn	Improper Turning	0	0

Total Number of Collisions: 2

Settings Used For Query

<u>Parameter</u>	<u>Setting</u>
Street Name	LARSON AVENUE
Cross Street	MONROE STREET
Starting Date	5/20/2004
Ending Date	5/20/2009
Intersection	Intersection Related



GARDEN GROVE

NOTICE OF PUBLIC FORUM

Dear Resident:

The City of Garden Grove Traffic Commission will hold its regularly scheduled meeting on Tuesday January 4, 2011 at 6:00 p.m. The meeting will be held in the City Council Chambers of the Community Meeting Center, 11300 Stanford Avenue.

We will be considering a request to install an all-way stop at the intersection of Monroe Street and Larson Avenue.

We welcome you to attend and provide input at this meeting. **(AGENDA ITEM 4-C)** If you have any questions, please call Traffic Engineering at 714.741.5185.

~~Fred Stone
Classic Property Management
Brookdale HOA
16470 Bake Parkway
Irvine, CA 92618~~

~~Calais Apartments
c/o Hsien T. Chao
18232 Serrano Avenue
Orange, CA 92867~~

~~The Classics Garden Grove
c/o Association Management
14780 Pipeline Avenue
Chino Hill, CA 91079~~

Mr. Joe Vieira } AC
13122 Monroe Street }
Garden Grove, CA 92844 }

~~Mr. David Andrade
11702 Yana Drive
Garden Grove, CA 92841~~

~~Calais Apartments
13182 Yockey Street
Garden Grove CA 92840~~