

TRAFFIC ENGINEERING STAFF REPORT

Agenda Item 4.d. All-Way Stop – Yana Drive and Hopi Street January 4, 2011

Objective

To consider a request to install an all-way stop at the intersection of Yana Drive and Hopi Street and install "Children at Play" warning signs.

Background

The City received a letter from Mr. David Andrade requesting an all-way stop at the intersection of Yana and Hopi and a "Children at Play" warning sign on each street. The intersection is currently controlled by a stop sign on Monroe. Mr. Andrade believes there is a speeding problem in the neighborhood and noted that there were numerous near miss accidents.

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. None of the four warrants were satisfied. To more clearly identify who has the right-of-way at the intersection, however, staff recommends installing stop signs on Hopi Street at the intersection.

Regarding installing "Children at Play" warning signs, the City has experimented with them in the past. Having monitored their performance, we believe the signs give children a false sense of security and as a result tend to make the neighborhood less safe. Staff noted in their field review that there are no 25 mph speed limits signs on Yana reinforcing the prima facie speed limit and recommends their installation.

Recommendation

It is recommended that the Traffic Commission receive public input and approve staff's recommendation to:

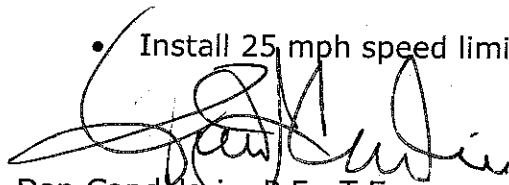
- Deny the request to install an all-way stop at the intersection of Yana Drive and Hopi Street.
- Install stop signs on Hopi Street at Yana Drive.

ALL-WAY STOP – YANA DRIVE AND HOPI STREET

January 4, 2011

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- Deny the request to install "Children at Play" warning signs on Hopi Street and Yana Drive.
- Install 25 mph speed limit signs on Yana Drive in both directions.



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

Attachments: Vicinity Map

Letter from Mr. David Andrade dated October 13, 2010

Residential All-Way Stop Warrant Study

Traffic Volumes

Collision History

October 13, 2010

To Whom It May Concern:

I am writing to ask the City of Garden Grove to add a new 4-way stop sign and a Children at Play sign on Yana Dr and Hopi St. I have witnessed numerous misses with cars, pedestrians and kids on bikes. During the rush hour for the local schools, people cut through Hopi/Yana to avoid the one lane traffic on Dale or Orangewood. I've seen these cars come through at estimated speeds of 50mph or higher and there is nothing to stop them.

There are currently 30 plus kids that live down Yana. My family has lived at 11702 Yana Dr for the last 14 years. We have three children and a dog, and speeding cars down the street have been constant and very dangerous. We don't feel comfortable letting our children play outside in front yard, even though it's a quiet residential block and know majority of the neighbors.

Please do not wait for a fatality or hit pedestrian to fix this problem. That is the main purpose of this letter. I know that you have been responsive to resident issues in the past, and I hope that you will support this request. With your leadership and support for a 4-way stop sign and Children at Play sign at Yana Dr and Hopi, our neighborhood will have the appropriate traffic control for today's conditions and distractions. Thank you for your time and attention.

Respectfully,

A handwritten signature in black ink, appearing to read 'David Andrade', written over a horizontal line.

David Andrade

714.478.1327

YANJA/HOPI

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

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 _____ No X

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 - YANA @ HOPT

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	1	0	0	0	1	12:00 - 12:15	1	0	0	0	1
12:15 - 12:30	0	0	0	0	0	12:15 - 12:30	6	0	4	0	10
12:30 - 12:45	0	0	0	1	1	12:30 - 12:45	3	1	3	5	12
12:45 - 1:00	1	0	0	2	3	12:45 - 1:00	2	1	0	6	9
1:00 - 1:15	0	0	0	0	0	1:00 - 1:15	3	0	1	1	5
1:15 - 1:30	0	0	0	0	0	1:15 - 1:30	4	1	1	2	8
1:30 - 1:45	0	0	0	1	1	1:30 - 1:45	0	2	0	2	4
1:45 - 2:00	0	0	0	0	0	1:45 - 2:00	0	3	1	4	8
2:00 - 2:15	0	0	0	0	0	2:00 - 2:15	2	1	0	4	7
2:15 - 2:30	0	1	0	0	1	2:15 - 2:30	0	2	1	1	4
2:30 - 2:45	0	0	0	0	0	2:30 - 2:45	2	1	0	5	8
2:45 - 3:00	0	0	0	0	0	2:45 - 3:00	10	0	1	6	17
3:00 - 3:15	1	0	0	0	1	3:00 - 3:15	9	0	4	4	17
3:15 - 3:30	0	0	0	0	0	3:15 - 3:30	2	3	0	3	8
3:30 - 3:45	0	0	0	0	0	3:30 - 3:45	3	0	0	4	7
3:45 - 4:00	0	0	0	0	0	3:45 - 4:00	3	1	2	6	12
4:00 - 4:15	0	0	0	0	0	4:00 - 4:15	4	0	1	2	7
4:15 - 4:30	1	0	0	0	1	4:15 - 4:30	2	0	1	1	4
4:30 - 4:45	0	0	1	0	1	4:30 - 4:45	8	2	4	1	15
4:45 - 5:00	0	0	0	0	0	4:45 - 5:00	3	0	8	5	16
5:00 - 5:15	0	0	0	0	0	5:00 - 5:15	1	2	1	2	6
5:15 - 5:30	0	0	0	0	0	5:15 - 5:30	3	2	0	9	14
5:30 - 5:45	0	0	0	0	0	5:30 - 5:45	6	3	2	7	18
5:45 - 6:00	0	2	2	1	5	5:45 - 6:00	2	1	2	4	9
6:00 - 6:15	0	1	2	4	7	6:00 - 6:15	6	2	4	6	18
6:15 - 6:30	0	0	0	0	0	6:15 - 6:30	1	3	0	2	6
6:30 - 6:45	0	2	1	0	3	6:30 - 6:45	5	3	1	2	11
6:45 - 7:00	6	2	1	1	10	6:45 - 7:00	5	2	4	5	16
7:00 - 7:15	1	0	0	4	5	7:00 - 7:15	3	1	2	4	10
7:15 - 7:30	3	2	1	1	7	7:15 - 7:30	3	0	2	2	7
7:30 - 7:45	4	4	0	6	14	7:30 - 7:45	4	0	1	1	6
7:45 - 8:00	13	3	2	9	27	7:45 - 8:00	2	0	4	5	11
8:00 - 8:15	2	2	0	6	10	8:00 - 8:15	1	1	1	0	3
8:15 - 8:30	1	0	3	4	8	8:15 - 8:30	0	1	4	2	7
8:30 - 8:45	2	1	3	1	7	8:30 - 8:45	1	0	0	1	2
8:45 - 9:00	6	4	2	6	18	8:45 - 9:00	4	2	4	3	13
9:00 - 9:15	1	3	4	3	11	9:00 - 9:15	2	1	1	3	7
9:15 - 9:30	1	4	1	1	7	9:15 - 9:30	1	1	4	1	7
9:30 - 9:45	4	0	4	1	9	9:30 - 9:45	1	0	0	3	4
9:45 - 10:00	0	0	2	1	3	9:45 - 10:00	1	0	0	1	2
10:00 - 10:15	1	2	1	0	4	10:00 - 10:15	1	1	2	1	5
10:15 - 10:30	2	0	5	0	7	10:15 - 10:30	1	0	1	1	3
10:30 - 10:45	3	0	1	1	5	10:30 - 10:45	2	0	1	1	4
10:45 - 11:00	2	0	0	3	5	10:45 - 11:00	0	0	1	2	3
11:00 - 11:15	1	1	2	2	6	11:00 - 11:15	0	0	0	0	0
11:15 - 11:30	1	1	1	0	3	11:15 - 11:30	0	1	1	0	2
11:30 - 11:45	1	1	1	2	5	11:30 - 11:45	1	0	1	0	2
11:45 - 12:00	2	0	1	2	5	11:45 - 12:00	0	0	0	0	0
TOTALS						185	81	117	193	576	

LOCATION - YANA @ HOPI

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	2	0	0	3	5	12:00 - 1:00	12	2	7	11	32
1:00 - 2:00	0	0	0	1	1	1:00 - 2:00	7	6	3	9	25
2:00 - 3:00	0	1	0	0	1	2:00 - 3:00	14	4	2	16	36
3:00 - 4:00	1	0	0	0	1	3:00 - 4:00	17	4	6	17	44
4:00 - 5:00	1	0	1	0	2	4:00 - 5:00	17	2	14	9	42
5:00 - 6:00	0	2	2	1	5	5:00 - 6:00	12	8	5	22	47
6:00 - 7:00	6	5	4	5	20	6:00 - 7:00	17	10	9	15	51
7:00 - 8:00	21	9	3	20	53	7:00 - 8:00	12	1	9	12	34
8:00 - 9:00	11	7	8	17	43	8:00 - 9:00	6	4	9	6	25
9:00 - 10:00	6	7	11	6	30	9:00 - 10:00	5	2	5	8	20
10:00 - 11:00	8	2	7	4	21	10:00 - 11:00	4	1	5	5	15
11:00 - 12:00	5	3	5	6	19	11:00 - 12:00	1	1	2	0	4
TOTALS							185	81	117	193	576

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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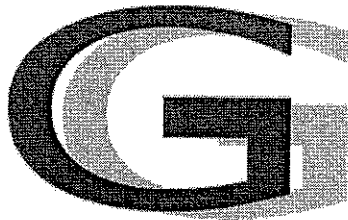
Location: Yana Drive / Hopi Road
Date Range Reported: 5/20/2004 - 5/20/2009
Total Number of Collisions: 0

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
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Total Number of Collisions: 0

Settings Used For Query

<u>Parameter</u>	<u>Setting</u>
Street Name	YANA DRIVE
Cross Street	HOPi ROAD
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 Yana Drive and Hopi Street and install "Children at Play" warning signs.

We welcome you to attend and provide input at this meeting. **(AGENDA ITEM 4-D)** 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
13122 Monroe Street
Garden Grove, CA 92844~~

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

} AD }

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