



# HEXAGON TRANSPORTATION CONSULTANTS, INC.

February 1, 2018

Mr. Ajit Singh  
Silicon Valley Homes  
2059 Camden Avenue, #298  
San Jose, CA

**Re: Trip Generation and Access Report for the Proposed Development at  
18081 Saratoga-Los Gatos Road in Monte Sereno, California**

Dear Mr. Singh:

Hexagon Transportation Consultants, Inc. has completed a trip generation and site access analysis regarding the proposed residential development at 18081 Saratoga-Los Gatos Road in Monte Sereno, California. The project would remove the remains of a demolished single-family home and construct three new houses.

## Trip Generation

The existing site has the remains of a former house, which was demolished several years ago. Therefore, for trip generation purposes, the existing site is considered vacant, with no existing trip generation.

The proposed project of three single-family houses would add additional vehicles to the transportation network. Trip generation rates for single family homes are determined based on the *Institute of Transportation Engineers Trip Generation Manual, 10<sup>th</sup> Edition, 2017*.

**Table 1**  
**Trip Generation**

Land Use	Size	Daily Rate	Daily Trips	AM Peak Hour				PM Peak Hour			
				Pk-Hr Rate	In	Out	Total	Pk-Hr Rate	In	Out	Total
Residential	3 units	9.4	28	0.74	1	2	3	0.99	2	1	3
<b>Notes:</b> Based on Institute of Transportation Engineers Trip Generation Manual, 10th Edition, 2017 Land Use Code 210, Single Family Detached Housing											



At the intersection of the driveway with Saratoga-Los Gatos Road, sight distance was evaluated. Based on the posted speed limit of 35 miles per hour, the design speed of Saratoga-Los Gatos Road is conservatively assumed to be 40 miles per hour. At this speed, the required stopping sight distance is 400 feet.<sup>2</sup> This means that vehicles exiting the project driveway should be able to see approaching vehicles 400 upstream in either direction, and vice versa, to ensure that sufficient visibility is afforded between vehicles.

**Figure 2**  
**Driveway Egress View**



As shown in Figure 2, with the existing driveway width of ten feet, vehicles exiting the site may experience difficulty viewing pedestrians on the Saratoga-Los Gatos Road sidewalk. Under existing conditions, vehicles must exit at low speeds to ensure that they do not conflict with pedestrians on the sidewalk.

However, with the proposed project, this driveway would be substantially widened to 40 feet. This widening would improve visibility between egressing vehicles and pedestrians.

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<sup>2</sup> California Highway Design Manual, Table 201.1



**Figure 3**  
**Visibility from Driveway Looking Toward Saratoga**



As shown in Figure 3, the visibility from the driveway to the west, toward Saratoga, is adequate. Over 500 feet of upstream visibility is afforded. Beyond 500 feet, visibility is obstructed by vegetation, but pruning of vegetation would lengthen the sight distance.



**Figure 4**  
**Visibility from Driveway Looking Toward Los Gatos**



As shown in Figure 4, visibility from the driveway to the east, toward Los Gatos, is adequate. Over 400 feet of upstream visibility is provided, despite the presence of a wood utility pole. Beyond 400 feet, visibility is obstructed by vegetation, but pruning of vegetation would lengthen the available sight distance.

Once egressing vehicles cross the property line and begin to enter the public right of way, adequate sight distance becomes available due to the presence of both the eight foot wide sidewalk and the adjacent five foot wide westbound bike lane. These facilities enable drivers to see oncoming vehicles in both the eastbound and westbound directions without encroaching onto the path of travel of oncoming vehicles.

The presence of the two-way left-turn lane also benefits site access. Inbound vehicles turning left into the site from eastbound Saratoga-Los Gatos Road utilize the lane so that they do not obstruct eastbound vehicles while waiting for a safe gap in westbound traffic. Conversely, outbound vehicles can utilize the lane to exit the site in two stages, by first waiting for a gap in westbound



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vehicles for a safe crossing, then entering the center lane and waiting for a gap in eastbound vehicles, before merging into eastbound traffic.

Sight distance could be further enhanced by pruning vegetation along the project frontage that has grown into the sidewalk, both east and west of the project driveway. It is recommended that pruning of landscaping be incorporated into the proposed project, in order to maximize sight distance.

## Conclusion

Overall, the 18081 Saratoga-Los Gatos Road residential project would result in no traffic impacts related to congestion, safety or access.

The project would generate a negligible increase in traffic volume, even when discounting any trip generation credit for former land uses. The project's 28 vehicle trips per day, when compared against existing traffic volumes on Saratoga-Los Gatos Road, would increase traffic by only 0.2%, which would not be perceptible. Due to the very low trip generation of the project, no traffic impacts would be generated by the project.

Regarding site access, due to the presence of both a sidewalk and bike lane along the north side of Saratoga-Los Gatos Road, vehicles egressing from the site would experience adequate visibility of approaching vehicles. Also, the existing two-way left-turn lane would facilitate both ingress and egress movements accessing the site. The combination of these design elements and the low traffic volumes generated by the project, is conducive to driveway movements. Therefore, the proposed project would result in no traffic or safety impacts to vehicles, pedestrians or cyclists.

Sight distance could be further enhanced by pruning vegetation along the project frontage that has grown into the sidewalk, both east and west of the project driveway. It is recommended that pruning of landscaping be incorporated into the proposed project, in order to maximize sight distance.

We appreciate the opportunity to submit this transportation assessment. If you have any questions, please do not hesitate to call.

Sincerely,

**HEXAGON TRANSPORTATION CONSULTANTS, INC.**

Greg Riessen  
Senior Associate