

TRAFFIC INFORMATION SUPPORTING CALCULATIONS FOR VENGE WINERY

LOCATED AT:
4708 Silverado Trail
Calistoga, CA 94515
NAPA COUNTY APN 020-350-038

PREPARED BY:
Applied Civil Engineering Incorporated
2074 West Lincoln Avenue
Napa, California 94558
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WEEKDAY AND AVERAGE WEEKEND TRAFFIC CHARACTERISTICS

Assumptions:

1. Per Napa County Winery Traffic Generation Characteristics, use 2.2 trips/day non-peak and 1.0 trip/day peak for full-time employees with an hour lunch (total 3.2 trips/day).
2. Per Napa County Winery Traffic Generation Characteristics, use 1.0 trips/day non-peak and 1.0 trip/day peak for part-time employees with a half hour lunch (total 2 trips/day).
3. Per Napa County Winery Traffic Generation Characteristics, use 1.05 employees per automobile.
4. Per Napa County Winery Traffic Generation Characteristics, use 2.6 visitors per automobile (for a purpose of this analysis, the use of 2.8 visitors per automobile on weekends was negligible and thus the more conservative number was used).
5. Per Napa County Winery Traffic Generation Characteristics, 57% of visitor traffic occurs during peak hours.
6. For trips/day totals including a fraction of a trip, round up to the next whole number of trips/day.
7. For purposes of this analysis, "seasonal staff" row on the Napa County Traffic Information Form is used for part-time employee information.
8. Per Napa County Winery Traffic Generation Characteristics, assume crush is 36 days.
9. Per Napa County Winery Traffic Generation Characteristics for service vehicles, assume 1.52 trips/1,000 gallons/season for grape deliveries; 1.47 trips/1,000 gallons/year for material supplies and 0.8 trips/1,000 gallons/year for case goods. Assume 2 trips/day for non agricultural deliveries such as FedEx.

Grape Deliveries

Total gallons produced from onsite grapes:

$$(10.2 \text{ Acres of Vineyard}) * \frac{4 \text{ tons of grapes}}{\text{Acre of Vineyard}} * \frac{165 \text{ gallons of wine}}{\text{ton of grapes}} = 6,732 \text{ gallons}$$

Trips generated from offsite grapes:

$$(20,000 \text{ gallons} - 6,732 \text{ gallons}) * \frac{1.52 \text{ trips/1,000 gallons}}{\text{season}} * \frac{\text{season}}{36 \text{ days}} = 0.56 \text{ trips/day}$$

Materials/Supplies Deliveries

Trips generated:

$$\frac{1.47 \text{ trips/1,000 gallons}}{\text{year}} * (20,000 \text{ gallons}) * \frac{\text{year}}{250 \text{ days}} = 0.12 \text{ trips/day}$$

Case Goods Deliveries

Trips generated:

$$\frac{0.8 \text{ trips/1,000 gallons}}{\text{year}} * (20,000 \text{ gallons}) * \frac{\text{year}}{250 \text{ days}} = 0.06 \text{ trips/day}$$

Non Agricultural Related Deliveries

Assume 1 delivery per day totaling 2 trips/day

TOTAL DELIVERIES =

$$0.56 \text{ trips/day} + 0.12 \text{ trips/day} + 0.06 \text{ trips/day} + 2 \text{ trips/day} = 3 \text{ trips/day}$$

SUMMARY TABLE:

	Number	No. People/ automobile	Non-peak Trip Generation (trips/day/ automobile)	Peak Trip Generation (trips/day/ automobile)	Non-Peak Trips/day	Peak Trips/day
Full-Time Employees	2	1.05	2.2	1	4.2	1.9
Part-Time Employees	2	1.05	1	1	1.9	1.9
Total Employees					6.1	3.8
Visitors	20	2.6	2	See Note 5	6.6	8.8
Deliveries	N/A	N/A	SEE ABOVE	SEE ABOVE	3	N/A
TOTAL					16	13

MARKETING EVENT TRAFFIC CHARACTERISTICS

Assumptions:

1. Per Napa County Winery Traffic Generation Characteristics, use 2.0 trips/day non-peak for "seasonal" or event staff.
2. Per the proposed marketing plan, all events will occur during non-peak hours.
3. Per Napa County Winery Traffic Generation Characteristics, assume that visitors per automobile are similar to a weekend rate and use 2.8 visitors per automobile.
4. For trips/day totals including a fraction of a trip, round up to the next whole number of trips/day.
5. For purposes of this analysis, "seasonal staff" row on the Napa County Traffic Information Form is used for part-time employee information.
6. During marketing events, assume 1 employee or support staff per automobile and a trip generation of 2 trips/day.

SUMMARY TABLE:

	Minimum Event Number	Maximum Event Number	No. People/ automobile	Trip Generation (trips/day)	Minimum Event Trips/day	Maximum Event Trips/day
Employees	2	2	1	2	4.0	4.0
Support Staff	2	2	1	2	4.0	4.0
Visitors	10	30	2.8	2	7.1	21.4
Deliveries	2	2	N/A	2	4.0	4.0
TOTAL					20	34



7/15/11

September 1, 2009

Job No. 08-141

RECEIVED

SEP 01 2009

**NAPA CO. CONSERVATION
DEVELOPMENT & PLANNING DEPT.**

Mr. Rick Marshall, P.E.
Principal Transportation Engineer
Napa County Public Works Department
1195 Third Street, Suite 201
Napa, California 94559

Re: Sight Distance Analysis for Venge Winery, 4708 Silverado Trail, Napa County, CA
NCAPN 020-350-038 (P08-00647)

Dear Mr. Marshall:

Per the request of Erich Kroll on July 28, 2009 Applied Civil Engineering has prepared an analysis of the sight distance for the existing driveway at the proposed Venge Winery located at 4708 Silverado Trail in Napa County, California. In order to analyze the site distance we performed the following activities:

1. Reviewed Napa County and Caltrans requirements for sight distance at private driveways
2. Drove past the site on Silverado Trail, travelling in both directions, several times to observe general site conditions
3. Measured site distance to the north and south from the existing driveway location

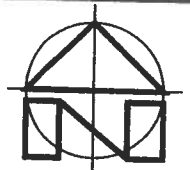
Following is a summary of our findings:

Required Sight Distance

Page 14 of the Napa County Road and Street Standards specifies a minimum stopping sight distance of 275 for arterial roads such as Silverado Trail. Furthermore, Table 201.1 of the Caltrans Highway Design Manual indicates that the minimum stopping sight distance for a design speed of 55 mph is 500 feet.

SIGHT DISTANCE EXHIBIT PRIVATE DRIVEWAY AT SILVERADO TRAIL

PHOTOGRAPH WAS OBTAINED FROM THE NAPA COUNTY GEOGRAPHIC INFORMATION
SYSTEM WEBSITE. PHOTOGRAPH DATE 2007.



SCALE: 1" = 200'



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VENGE WINERY
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AUGUST 2009



A Tradition of Stewardship
A Commitment to Service

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Hillary Gitelman
Director

To: Patricia Hornisher,
Planner III

From: Rick Marshall,
Principal Transportation Engineer

Date: May 12, 2009

Re: Venge; P08-00647 and W09-00169

Public Works has reviewed the potential traffic impacts associated with the proposed project. Based on the project description, the traffic generated will be low enough that it will not warrant the widening of Silverado Trail for a left-turn pocket. Calculations indicate 29 daily trips during harvest-season operations, and 20-34 daily trips associated with proposed events onsite (event traffic will occur only during non-peak hours).

Since left-turn pocket warrants will not be met at the driveway intersection with Silverado Trail, project impacts at nearby public-road intersections (such as Dunaweal or Route 29) will be negligible, as project traffic is dispersed around the road network. I recommend that this project not be found to have a significant impact on traffic and circulation.

There are concerns about the configuration of the driveway connection from Silverado Trail to the winery itself; we are addressing those with the applicant's representatives.

Please let me know if you have questions or need additional information. Thanks.

-Rick Marshall
Principal Transportation Engineer
& County Surveyor
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