# "L"

Traffic Study

#### CRANE TRANSPORTATION GROUP

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#### **MEMORANDUM**

TO:

Donna Oldford/Plans4Wine (dboldford@aol.com)

cc:

Mike Muelrath (mike@appliedcivil.com)
Arvind Sodhani (asvineyards@gmail.com)

FROM:

Mark D. Crane, P.E.

DATE:

October 19, 2015

RE:

SIGHT LINE EVALUATION AT PROPOSED SODHANI WINERY

DRIVEWAY LOCATION ALONG STATE ROUTE 29

#### Donna:

At your request Crane Transportation Group has determined the sight lines that would be available for drivers at the proposed Sodhani Winery driveway along State Route 29/128 (SR 29). The proposed winery driveway would be about 100 feet south of the existing driveway now serving the Sodhani property, about 600 feet north of a curve in the state highway and on the outside and at the south end of a horizontal curve adjacent to the project site. This location would provide good sight lines to the north and south along the state highway (see **Figure 1**).

# SIGHT LINES AT PROPOSED SODHANI WINERY PROJECT DRIVEWAY FOR EXITING DRIVER

| TO THE NORTH ALONG SR 29 | TO THE SOUTH ALONG SR 29 |  |  |
|--------------------------|--------------------------|--|--|
| + 1000 feet              | 600 feet                 |  |  |

Source: Crane Transportation Group

Caltrans criteria for acceptable corner sight lines at a private driveway intersection is stopping sight distance. As detailed in the Caltrans Highway Design Manual, stopping sight distance for the posted 50 mile per hour speed is as follows.

| SPEED  | MINIMUM STOPPING<br>SIGHT DISTANCE |
|--------|------------------------------------|
| 50 mph | 430 feet                           |

Source: Caltrans Highway Design Manual, March 2014

Based upon these criteria, sight lines at the proposed project driveway connection to SR 29 would be acceptable.

Thank you,

Mark

Mark Crane, P.E. Crane Transportation Group

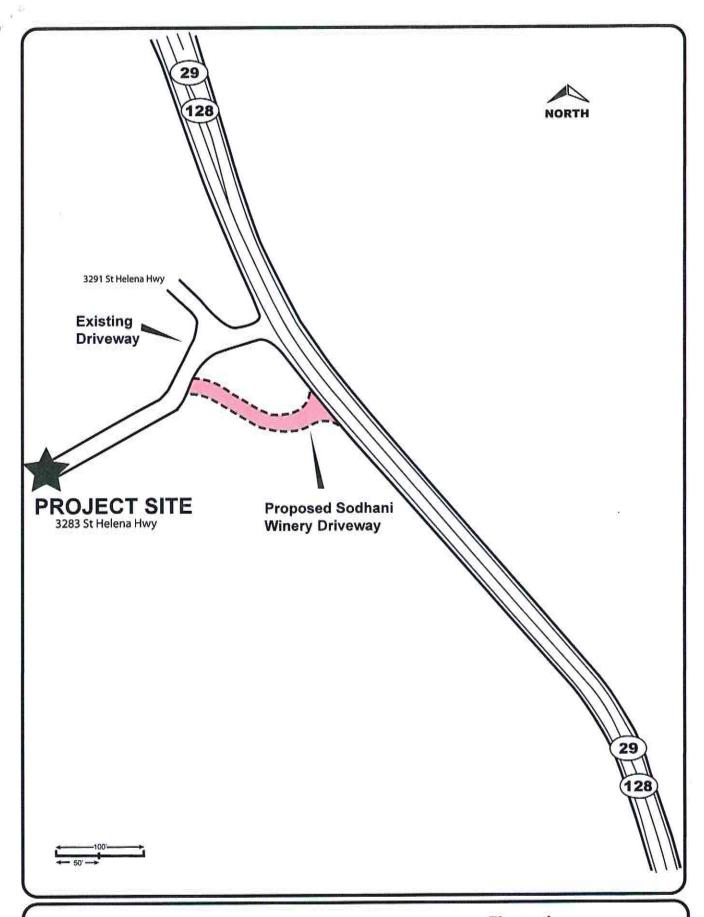




Figure 1
Proposed Sodhani Winery Driveway
Connection to SR29/128

#### TRAFFIC IMPACT REPORT

#### SR 29 INTERSECTION WITH THE DRIVEWAY SERVING THE PROPOSED SODHANI WINERY IN NAPA COUNTY

May 28, 2015

Prepared for: Caltrans

Prepared by: Mark D. Crane, P.E.

California Registered Traffic Engineer (#1381)

CRANE TRANSPORTATION GROUP

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#### I. INTRODUCTION

This report has been prepared at the request of Caltrans to detail existing and future (year 2030 General Plan Buildout) conditions at the SR 29 intersection with the driveway that will serve the proposed Sodhani Winery in Napa County. The driveway currently serves two properties, one with a residence and small winery (without visitation) and the other with a residence and vineyard.

#### II. PROJECT LOCATION

The analysis intersection is located at approximate PM 32.10 of SR 29 in Napa County between the cities of St. Helena and Calistoga (see Figure 1). It is the first driveway connection on the west side of the state highway about 460 feet south of the Grist Mill State Historical Park entrance. SR 29 in the project vicinity has single travel lanes in each direction, 2- to 3-foot-wide paved shoulders and a posted speed limit of 45 mph southbound and a 35 mph limit posted for northbound traffic at a curve about 3,000 feet south of the driveway. However, surveyed northbound speeds are closer to 45-50 mph by the time northbound vehicles reach the project driveway. The road is level and has a minor horizontal curve at the driveway connection. (The connection is on the outside of the curve.) A guardrail is in place along the east side of the road in the vicinity of the driveway. Tall trees line both sides of the highway and utility poles line the east side of the road behind the guardrail (see Figure 2).

The driveway connection to SR 29 provides shared access to two parcels. A residence and small winery are located on one property (3291), while vineyards and a house are located on the other property (3283). A small winery (without visitation) is proposed on the 3283 parcel, while the winery on the 3291 parcel has one employee, no visitation and no signage along the state highway. The 3291 driveway is gated immediately after separating from the shared use driveway connection to SR 29.

### III. SUMMARY OF FINDINGS

- Sight lines at the project driveway connection to SR 29 are acceptable and exceed Caltrans criteria.
- Volumes during peak traffic hours on a Friday or Saturday would not warrant provision of a left turn lane either for Existing + Project or year 2030 Cumulative + Project traffic conditions. This includes traffic from development of a small winery without visitation on the 3283 parcel.

### IV. EXISTING VOLUMES

Friday AM and PM peak period (7:00-9:00 AM & 3:00-6:00 PM) as well as Saturday afternoon peak period (noon-6:00 PM) turn movement traffic counts were conducted by All Traffic Data (under the supervision of Crane Transportation Group) at the analysis intersection on March 13 & 14, 2015. Count results are presented in **Figure 3**. The peak hours were 7:45-8:45 AM and 4:00-5:00 PM on Friday and 3:15-4:15 on Saturday afternoon. There were no left turns from northbound SR 29 into the driveway during any of the three peak traffic hours. During all 11 hours of counts over the two survey days, there were only three left turns from northbound SR 29 into the driveway.

Based upon seasonal traffic count information from the Caltrans PeMS system for SR 29 in the Napa Valley as well as from the City of Napa, it was determined that peak traffic volumes occur on SR 29 during the September grape harvest season. September weekday counts are about 9 percent higher than March weekday counts, while September weekend counts are about 12 percent higher than March weekend counts. Based upon these factors, the March peak hour turn movement counts were adjusted upwards to reflect peak September "Without Project" conditions, as shown in **Figure 4**.

## V. YEAR 2030 CUMULATIVE GENERAL PLAN BUILDOUT VOLUMES

Traffic analysis has been conducted for both existing and year 2030 cumulative conditions. The 2030 horizon reflects the County General Plan Buildout year. Traffic modeling for the General Plan shows about a 19 percent growth in two-way weekday AM peak hour traffic and about a 27 percent growth in two-way weekday PM peak hour traffic along SR 29 in the project area between 2015 and 2030. Since traffic modeling projections were only available for weekday AM and PM peak hour conditions and not for the Saturday PM peak hour, Saturday two-way PM peak hour volumes on SR 29 were conservatively increased by the higher percentages found for the weekday PM peak hour.

Resultant year 2030 harvest "Without Project" Friday and Saturday peak hour volumes are presented in Figure 5.

## VI. ADDITIONAL TRAFFIC DUE TO PROPOSED WINERY ON 3283 ST. HELENA HIGHWAY PARCEL

A small (12,000 gallon/year) winery is being proposed on the 3283 property served by the shared use driveway. It would employ one person who would commute to the site on weekdays and start work by 7:30 AM. This one added inbound trip would occur before the weekday AM peak hour of 7:45-8:45. There would be no visitation and no winery signage along the state highway. The proposed winery would produce no new inbound trips during either the weekday or Saturday peak traffic hours.

### VII. LEFT TURN LANE WARRANT EVALUATION

#### A. EXISTING CONDITIONS

Caltrans left turn lane warrant criteria have been utilized to evaluate the need for a left turn lane on the northbound SR 29 approach to the analysis driveway (see **Table 1**). Since there were no left turns during any of the peak traffic hours and the future winery is scheduling its one employee to start work at a time before the weekday AM peak traffic hour, no peak hour left turns would indicate no need for a left turn lane. However, for analysis purposes, one left turn into the driveway has been utilized as traffic flow to/from the two residences being served by the shared use driveway can be random and on some days one left turn may occur during one of the peak hours.

Assuming one vehicle would be making a left turn, the percentage left turns of existing northbound traffic flow during each of the three peak traffic hours in September would be as follows.

**EXISTING CONDITIONS** 

|                       | % LEFT TURNS ON NB SR 29 WITH 1<br>VEHICLE MAKING A LEFT TURN INTO<br>DRIVEWAY |  |  |  |
|-----------------------|--|--|--|--|
| Friday AM Peak Hour   | .25%   |  |  |  |
| Friday PM Peak Hour   | .13%   |  |  |  |
| Saturday PM Peak Hour | .14%   |  |  |  |

Overall advancing and opposing (northbound and southbound) volumes would be as follows.

#### **EXISTING CONDITIONS**

|                       | SEPTEMBER 2015                    |                                  |  |
|-----------------------|-----------------------------------|----------------------------------|--|
|                       | ADVANCING VOLUME<br>(NB VEHICLES) | OPPOSING VOLUMI<br>(SB VEHICLES) |  |
| Friday AM Peak Hour   | 396                               | 690                              |  |
| Friday PM Peak Hour   | 753                               | 546                              |  |
| Saturday PM Peak Hour | 706                               | 665                              |  |

Caltrans left turn lane warrant criteria are based upon evaluation of peak hour volumes – see **Table 1**. For 50 mile per hour speeds, the combination of advancing and opposing (northbound and southbound) peak hour volumes on SR 29 at the project entrance is not found in the table. Likewise, the lowest percent left turns considered by Caltrans in the table is 5 percent, whereas at the project entrance the percent left turns for existing + project conditions would be 0.25 percent during the Friday AM peak hour, 0.13 percent during the Friday PM peak hour and 0.14 percent during the Saturday PM peak hour. Although no vehicles were surveyed making a left turn during these peak traffic hours, one vehicle has been projected to be making a left turn each of these hours for analysis purposes.

Table 2 presents an interpolation of the Caltrans left turn warrant table into the range of existing north and southbound volumes on SR 29 at the project entrance during the Friday and Saturday peak traffic hours in combination with the minimum percentage of northbound left turns that would require provision of a left turn lane serving the project site. As presented in Table 3, the actual percentage of northbound vehicles on SR 29 making a left turn into the shared use driveway during the Friday and Saturday peak traffic hours would be well under the minimum percent left turns which would warrant provision of a left turn lane.

For example, during the Friday PM peak traffic hour the percentage of northbound traffic turning left into the shared driveway requiring provision of a left turn lane would be 1.0 percent, while the actual percentage would be 0.13 percent. Likewise, during the Saturday PM peak traffic hour the percentage of northbound traffic turning left into the shared driveway requiring provision of a left turn lane would be 0.75 percent, while the actual percentage would be 0.14 percent. Therefore, no left turn lane would be warranted based upon analysis of the peak traffic hours of the week.

#### B. YEAR 2030 CUMULATIVE CONDITIONS

Analysis has also been conducted for year 2030 cumulative conditions in the same manner as for the existing evaluation. For cumulative analysis purposes, one left turn into the driveway during each peak traffic hour has been utilized to evaluate whether a left turn lane would be warranted on the northbound SR 29 approach to the shared use driveway.

Assuming one vehicle would be making a left turn, the percentage left turns of year 2030 northbound traffic flow during each of the three peak traffic hours would be as follows.

#### **YEAR 2030**

|                       | % LEFT TURNS ON NB SR 29-128 WITH<br>1 VEHICLE MAKING A LEFT TURN<br>INTO DRIVEWAY |  |  |
|-----------------------|--|--|--|
| Friday AM Peak Hour   | .21%   |  |  |
| Friday PM Peak Hour   | .10%   |  |  |
| Saturday PM Peak Hour | .11%   |  |  |

Overall advancing and opposing (northbound and southbound) volumes would be as follows.

#### **YEAR 2030**

|                       | SEPTEMBER                         |                                  |  |  |
|-----------------------|-----------------------------------|----------------------------------|--|--|
|                       | ADVANCING VOLUME<br>(NB VEHICLES) | OPPOSING VOLUME<br>(SB VEHICLES) |  |  |
| Friday AM Peak Hour   | 472                               | 824                              |  |  |
| Friday PM Peak Hour   | 958                               | 696                              |  |  |
| Saturday PM Peak Hour | 896                               | 845                              |  |  |

By 2030 assuming one left turn at the project entrance, the percent left turns for cumulative + project conditions would be 0.21 percent during the Friday AM peak hour, 0.10 percent during the Friday PM peak hour and 0.11 percent during the Saturday PM peak hour. Although no vehicles were surveyed during these peak traffic hours, one vehicle has been projected to be making a left turn each of these hours for analysis purposes.

Table 4 presents an interpolation of the Caltrans left turn warrant table into the range of 2030 north and southbound volumes on SR 29 at the project entrance during the Friday and Saturday peak traffic hours in combination with the minimum percentage of northbound left turns that would require provision of a left turn lane serving the project site. As presented in Table 5, the actual percentage of northbound vehicles on SR 29 making a left turn into the shared use driveway during the Friday and Saturday peak traffic hours would be under the minimum percent left turns which would warrant provision of a left turn lane.

For example, during the Friday PM peak traffic hour the percentage of northbound traffic turning left into the shared driveway requiring provision of a left turn lane would be 0.25 percent, while the actual percentage would be 0.10 percent. Likewise, during the Saturday PM peak traffic hour the percentage of northbound traffic turning left into the shared driveway requiring provision of a left turn lane would be 0.20 percent, while the actual percentage would be 0.11 percent. Therefore, no left turn lane would be warranted for cumulative conditions based upon analysis of the peak traffic hours of the week.

# VIII. SIGHT LINES AT PROJECT DRIVEWAY CONNECTION TO SR 29

The project driveway connection to SR 29 is located on the outside of a minor horizontal curve which provides good sight lines to the north and south along the state highway. Adequacy into the future is, however, dependent upon brush along the west side of the highway near the driveway being maintained and not being allowed to block sight lines.

#### SIGHT LINES AT PROJECT DRIVEWAY FOR EXITING DRIVER

| TO THE NORTH ALONG SR 29 | TO THE SOUTH ALONG SR 29 |  |  |
|--------------------------|--------------------------|--|--|
| + 1000 feet              | 700 feet                 |  |  |

Source: Crane Transportation Group

Caltrans criteria for acceptable sight lines at a private driveway intersection is stopping sight distance. As detailed in the Caltrans Highway Design Manual, stopping sight distances for 40 and 50 mile per hour speeds are as follows.

| SPEED  | MINIMUM STOPPING<br>SIGHT DISTANCE |  |  |
|--------|------------------------------------|--|--|
| 40 mph | 300'                               |  |  |
| 50 mph | 430'                               |  |  |

Source: Caltrans Highway Design Manual, March 2014

Based upon these criteria, sight lines at the project driveway connection to SR 29 are acceptable.

This Report is intended for presentation and use in its entirety, together with all of its supporting exhibits, schedules, and appendices. Crane Transportation Group will have no liability for any use of the Report other than in its entirety, such as providing an excerpt to a third party or quoting a portion of the Report. If you provide a portion of the Report to a third party, you agree to hold CTG harmless against any liability to such third parties based upon their use of or reliance upon a less than complete version of the Report.

Table 1

## CALTRANS HOURLY VOLUME WARRANTS FOR PROVISION OF LEFT TURN DECELERATION LANES ON TWO-LANE STATE HIGHWAYS

| Advancing Volumes, VPH*  |               |                   |                |                |  |  |
|--------------------------|---------------|-------------------|----------------|----------------|--|--|
| Opposing<br>Volume, VPH* | 5% Left Turns | 10% Left Turns    | 20% Left Turns | 30% Left Turns |  |  |
|                          | 5             | 0 mph Operating S | peed           |                |  |  |
| 800                      | 280           | 210               | 165            | 135            |  |  |
| 600                      | 350           | 260               | 195            | 170            |  |  |
| 400                      | 430           | 320               | 240            | 210            |  |  |
| 200                      | 550           | 400               | 300            | 270            |  |  |
| 100                      | 615           | 445               | 335            | 295            |  |  |

<sup>\*</sup> VPH = vehicles per hour

Source: Caltrans Guidelines for Reconstruction of Intersections, 1985.

# CALTRANS LEFT TURN LANE WARRANT CHART – INTERPOLATION FOR PEAK HOUR VOLUMES ON SR 29 AT THE DRIVEWAY SERVING THE PROPOSED SODHANI WINERY\*

# EXISTING CONDITIONS WITH ONE LEFT TURN ASSUMED INTO SHARED USE DRIVEWAY DURING EACH PEAK TRAFFIC HOUR

#### 50 MPH OPERATING SPEED

#### FRIDAY AM PEAK HOUR

(EXISTING SEPTEMBER 2015 VOLUMES)

(ADVANCING VOL = 396 VPH/OPPOSING VOL = 690 VPH)

|  | PERCENT LEFT TURNS REQUIRING PROVISION OF LEFT TURN LANE ASSUMING OPPOSING VOLUME IS MAINTAINED AT 690 VPH |      |       |       |
|--|--|------|-------|-------|
|  | 5%   | 2.5% | 1.25% | 0.63% |
| Maximum Allowed Advancing Volume for Each Left Turn Percentage | 315  | 420  | N/A   | N/A   |

#### FRIDAY PM PEAK HOUR

(EXISTING SEPTEMBER 2015 VOLUMES)

(ADVANCING VOL = 753 VPH/OPPOSING VOL = 546 VPH)

| v  | PERCENT LEFT TURNS REQUIRING PROVISION OF LEFT TURN LANE ASSUMING OPPOSING VOLUME IS MAINTAINED AT 546 VPH |      |       |       |
|--|--|------|-------|-------|
|  | 5%   | 2.5% | 1.25% | 0.63% |
| Maximum Allowed Advancing Volume for Each Left Turn Percentage | 370  | 490  | 635   | 805   |

#### SATURDAY PM PEAK HOUR

(EXISTING SEPTEMBER 2015 VOLUMES)

(ADVANCING VOL = 706 VPH/OPPOSING VOL = 665 VPH)

|  | PERCENT LEFT TURNS REQUIRING PROVISION OF LEFT TURN LANE ASSUMING OPPOSING VOLUME IS MAINTAINED AT 665 VPH |      |       |       |
|--|--|------|-------|-------|
|  | 5%   | 2.5% | 1.25% | 0.63% |
| Maximum Allowed Advancing Volume for Each Left Turn Percentage | 325  | 435  | 570   | 730   |

<sup>\*</sup>Interpolation of left turn lane warrant chart in Guidelines for Reconstruction of Intersections, 1985 reflecting advancing and opposing volumes found along SR 29 at the project driveway.



# SUMMARY OF MINIMUM ALLOWABLE PEAK HOUR % LEFT TURNS FROM SR 29 INTO THE SHARED USE DRIVEWAY COMPARED TO ACTUAL EXPECTED % LEFT TURNS FOR EXISTING CONDITIONS

| TIME PERIOD           | PERCENT NORTHBOUND LEFT TURNS INTO SHARED USE DRIVEWAY: EXISTING CONDITIONS | MINIMUM % LEFT TURNS INTO SHARED USE DRIVEWAY WHEN LEFT TURN LANE WOULD BE WARRANTED | LEFT TURN LANE<br>WARRANTED? |  |
|-----------------------|---|--|------------------------------|--|
| Friday AM Peak Hour   | .25%*   | 2.4% left turns  | No                           |  |
| Friday PM Peak Hour   | .13%*   | 1.0% left turns  | No                           |  |
| Saturday PM Peak Hour | .14%*   | .75% left turns  | No                           |  |

<sup>\*</sup> No vehicles projected to be making left turn during these hours. However, one vehicle left turn assumed for analysis purposes.

# CALTRANS LEFT TURN LANE WARRANT CHART – INTERPOLATION FOR PEAK HOUR VOLUMES ON SR 29 AT THE DRIVEWAY SERVING THE PROPOSED SODHANI WINERY\*

### YEAR 2030 CUMULATIVE CONDITIONS WITH ONE LEFT TURN ASSUMED INTO THE SHARED USE DRIVEWAY DURING EACH PEAK TRAFFIC HOUR

#### 50 MPH OPERATING SPEED

#### FRIDAY AM PEAK HOUR

(CUMULATIVE YEAR 2030 SEPTEMBER VOLUMES)
(ADVANCING VOL = 472 VPH/OPPOSING VOL = 824 VPH)

|  | PERCENT LEFT TURNS REQUIRING PROVISION OF LEFT TURN LANE ASSUMING OPPOSING VOLUME IS MAINTAINED AT 824 VPH |      |       |       |  |  |
|--|--|------|-------|-------|--|--|
|  | 5%   | 2.5% | 1.25% | 0.63% |  |  |
| Maximum Allowed Advancing Volume for Each Left Turn Percentage | 270  | 365  | 485   | N/A   |  |  |

#### FRIDAY PM PEAK HOUR

(CUMULATIVE YEAR 2030 SEPTEMBER VOLUMES)
(ADVANCING VOL = 958 VPH/OPPOSING VOL = 696 VPH)

|  | PERCENT LEFT TURNS REQUIRING PROVISION OF LEFT TURN LANE ASSUMING OPPOSING VOLUME IS MAINTAINED AT 696 VPH |      |       |      |      |      |
|--|--|------|-------|------|------|------|
|  | 5%   | 2.5% | 1.25% | .63% | .31% | .15% |
| Maximum Allowed<br>Advancing Volume for Each<br>Left Turn Percentage | 315  | 420  | 550   | 705  | 885  | 1090 |

#### SATURDAY PM PEAK HOUR

(CUMULATIVE YEAR 2030 SEPTEMBER VOLUMES) (ADVANCING VOL = 896 VPH/OPPOSING VOL = 845 VPH)

|  | PERCENT LEFT TURNS REQUIRING PROVISION OF LEFT TURN LANE ASSUMING OPPOSING VOLUME IS MAINTAINED AT 845 VPH |      |       |      |      |      |
|--|--|------|-------|------|------|------|
|  | 5%   | 2.5% | 1.25% | .63% | .31% | .15% |
| Maximum Allowed<br>Advancing Volume for Each | 260  | 350  | 465   | 605  | 770  | 960  |

<sup>\*</sup>Interpolation of left turn lane warrant chart in Guidelines for Reconstruction of Intersections, 1985 reflecting advancing and opposing volumes found along SR 29 at the project driveway.



# SUMMARY OF MINIMUM ALLOWABLE PEAK HOUR % LEFT TURNS FROM SR 29 INTO THE SHARED USE DRIVEWAY COMPARED TO ACTUAL EXPECTED % LEFT TURNS FOR YEAR 2030 CUMULATIVE CONDITIONS

| TIME PERIOD           | PERCENT NORTHBOUND LEFT TURNS INTO SHARED USE DRIVEWAY: CUMULATIVE CONDITIONS | MINIMUM % LEFT TURNS INTO SHARED USE DRIVEWAY WHEN LEFT TURN LANE WOULD BE WARRANTED | LEFT TURN LANE<br>WARRANTED? |  |
|-----------------------|---|--|------------------------------|--|
| Friday AM Peak Hour   | .21%*   | 1.25% left turns   | No                           |  |
| Friday PM Peak Hour   | .10%*   | 0.25% left turns   | No                           |  |
| Saturday PM Peak Hour | .11%*   | 0.20% left turns   | No                           |  |

<sup>\*</sup> No vehicles projected to be making left turn during these hours. One vehicle left turn assumed for analysis purposes.

**Figures** 

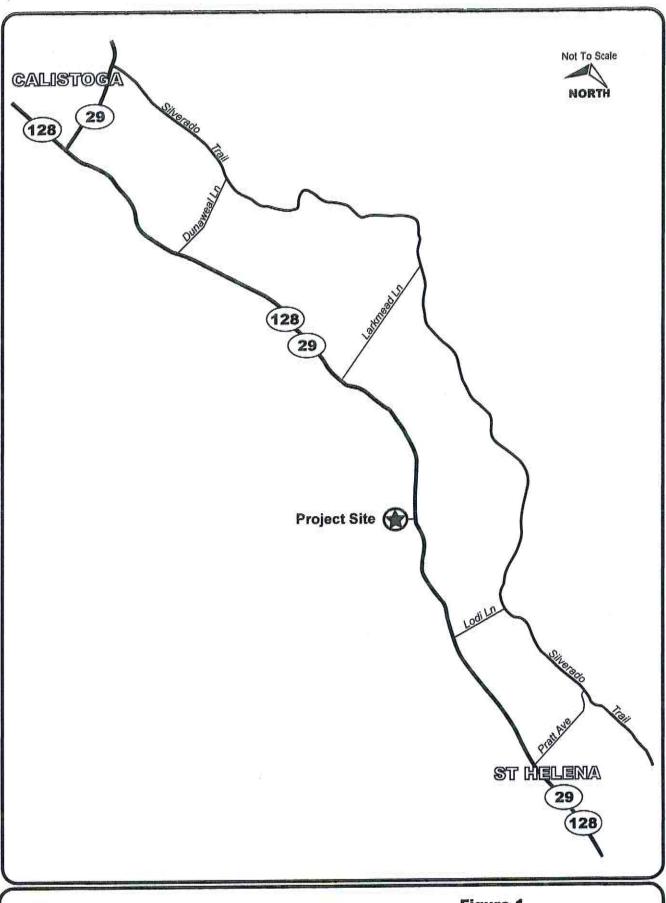




Figure 1 Area Map

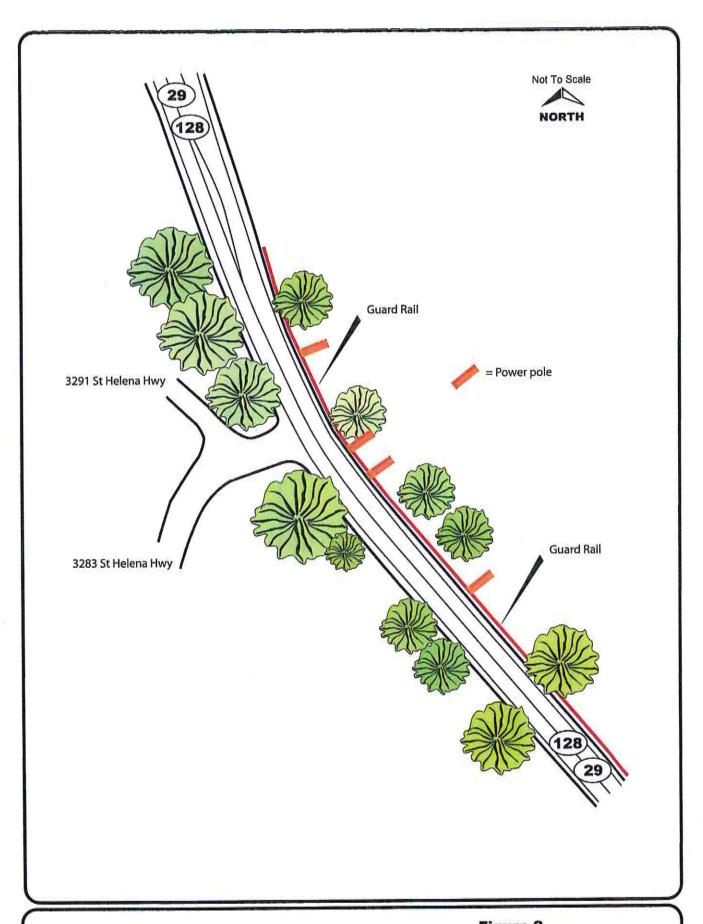
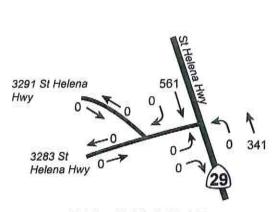
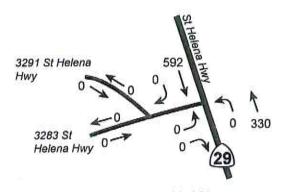




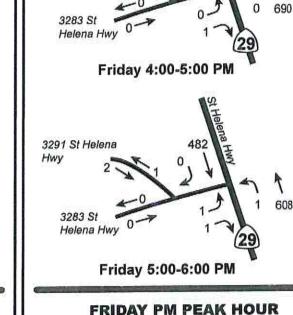
Figure 2
Conditions Along SR29-SR128
at the Project Site Access



Friday 7:00-8:00 AM



Friday 8:00-9:00 AM



Friday 3:00-4:00 PM

3291 St Helena

3283 St ≠ Helena Hwy

3291 St Helena

Hwy

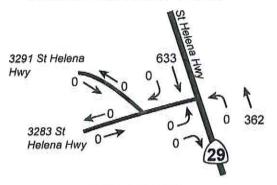
Hwy

Not To Scale

NORTH

655

#### FRIDAY AM PEAK HOUR



7:45-8:45 AM

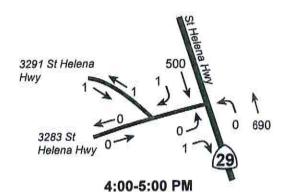


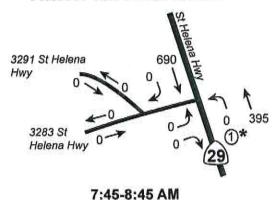
Figure 3

Traffic Count Summaries SR29/3283 & 3291 Driveway Connection Friday AM & PM Mar 13, 2015





#### FRIDAY AM PEAK HOUR



#### FRIDAY PM PEAK HOUR



★ No left turn movements were observed during traffic count and no left turn movements expected due to the proposed winery. One left turn is included for analysis purposes.

#### SATURDAY PM PEAK HOUR



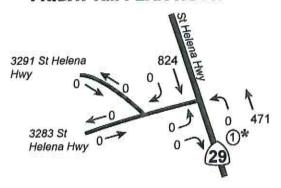
★ No left turn movements were observed during traffic count and no left turn movements expected due to the proposed winery. One left turn is included for analysis purposes.



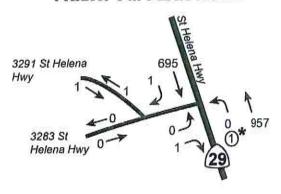
#### Figure 4



#### FRIDAY AM PEAK HOUR

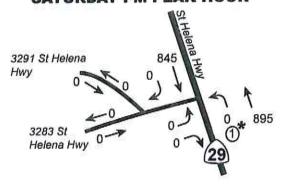


#### FRIDAY PM PEAK HOUR



No left turn movements were observed during traffic count and no left turn movements expected due to the proposed winery. One left turn is included for analysis purposes.

#### SATURDAY PM PEAK HOUR



No left turn movements were observed during traffic count and no left turn movements expected due to the proposed winery. One left turn is included for analysis purposes.



Figure 5

Year 2030 Cumulative Harvest Volumes \$R29/3283 & 3291 Driveway Connection Friday AM & PM and Saturday PM Peak Hours