

COUNTY OF SONOMA PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

August 5, 2014

To: Interested Agencies

The following application has been filed with the Sonoma County Permit and Resource Management Department.

File Number:

PLP05-0009

Applicant Name: Henry Belmonte

Owner Name:

Vittorio and Henry Belmonte 9125 Highway 12, Kenwood

Site Address:

050-275-028

APN:

Project Description: Request to modify previously approved Use Permit to change hours of operation, for the marketplace to allow it to be open from 10:00 a.m. to 5:00 p.m. Saturday through Thursday and 10:00 a.m. to 7:00

p.m. on Fridays and expand food service to allow restaurant during business hours.

We are submitting the above application for your review and recommendation. Additional information is on file in this office.

Responses to referrals should include: (1) statement of any environmental concerns or uncertainties your agency may have with the project; (2) any comments you wish to make regarding the merits of the project; and (3) your proposed conditions and mitigations for this project. Responsible agencies under CEQA are requested to indicate whether permits will be required for this project.

Your comments will be appreciated by August 26, 2014, and should be sent to the attention of: PLP05-0009, Greg Desmond (Gregory.Desmond@sonoma-county.org). The Project Planner can also be reached at 707-565-1683.

Please send a copy of your comments to the applicant(s) or their representatives as indicated on the attached Planning Application.

[X] PRMD County Surveyor	[] BOS Dist Director
Health Specialist	[X] BOS Dist 1 Director and SVCAC
Sanitation	[] BOS Dist 4 Director and Jason Liles
[] Grading and Storm Water	[X] Valley of the Moon Alliance and Kenwood Press
SUSMP	NW Information Center, S.S.U.
[X] Building Inspection	Milo Baker Chapter Conservation Committee
Ode Enforcement	i PG&E
[] Road Naming	School District -
[X] So County Environmental Health	[] Water District -
[X] DTPW, Land Development	[X] North Bay Corporation (Disposal)
DTPW, Drainage	[] U.S. Army Corps of Engineers
Ag Commissioner	[] State Coastal Commission - Appealable Yes / No
[X] Regional Parks Dept	[] State Dept of Transportation (Caltrans)
[X] Fire and Emergency Services	State Dept of Fish & Wildlife
[X] Local Fire District – KENWOOD FPD	[] State Dept of Forestry
[] Treasurer/Special Assessment	[X] State Water Resources Control Board
[] Assessor	State Parks and Recreation
[] Landmarks Commission	Regional Water QCB: North Coast / SF Bay
[X] Transit/BPAC	[] Air Pollution Control: No. So. County / Bay Area AQM
[] Communications	[X] Sonoma MOAG
[X] SCTA/RCPA	[X] Oakmont Village Association
Sheriff Community Service Officer	[X] Federated Indians of Graton Rancheria
[]LAFCO	[X] Kenwood Community Club
[]ALUC/CLUP	•
[1	

Planning Application PJR-001

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Type of Application:			File#:	
☐ Admin Cert. Compliance☐ Ag./Timber Preserve/Contract☐ Cert. of Compliance☐ Cert. of Modification☐	□ Design Review Comm.□ Design Review Reside□ Design Review Signs□ General Plan Amendn□ Lot Line Adjustment□ Major Subdivision	ential	e Zoning Permit Caterpretation	Variance Zone Change Other: USE PERMIT MODIFICATIO
Applicant (Contact Person):		Owner, if other th	nan Applicant:	
Henry Belmonte				
Name Henry Belmonte		Name		
Mailing Address	0 05450	Mailing Address		,
60 Shaw Ave City/Town	Ca 95452 State Zip	City/Town		State Zip
Kenwood Fax	X	Phone	Fax	
<u>707-833-2300 707-975-3991</u>		amail .		
enjai)	6/25/14	email		
Signature	Date	Signature		Date
Other Persons to be Notified: (S	pecify: Other Owner(s), A	gent, Lender, Archited	ct, Engineer, Survey	or)
Name	Name		Name	
Mailing Address	Mailing Address		Mailing Address	
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-	City/Town	State Zip	City/Town	State Zip
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Project Information: VJB Vineyards and Cellars Assessor's Parcel Number(s) Project Description: Please attach additional sheet(s) if needed) Site Served by Public Water? Planning Area: Supervisorial Distri	Title Phone email Tasting room and deli Site Served by Publication Current Zoning: Current Zoning: Land Use: swhere applicable) d: Existing Employ W Units For Sale:	Fax Fax And marketplace C Sewer? Yes No IE - To Be Completed by C	City/Town Title Phone email City/Town Kenwood Acreage Number of new PRMD Staff O General Plan L Needs CEQA I	Fax lots proposed n/a and Use: Review? yes no

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11/13/09

Carrie Muller

Supplemental Application Information

*				
Existing use of property:	Winery tasting room,	deli and mark	etplace	
				Acreage: 1.89
Existing structures on pro	operty: 4 existing dw	ellings that we	ere permitted with	
Existing structures on pr	permits.	Chings that we	re permitted with	CONSTRUCTION
Proximity to creeks, water	erways and impoundmer	nt areas: none		
Vegetation on site: viney				
General topography: com				
Surrounding uses to	North: vineyards and bu	usinesses	South: vineyard:	s and businesses
(Note: An adjoining road is not a use.)	East: residential		West: vineyards	and businesses
New structures proposed (size, height, type):	to comply with depart must be closed in "ter place".			
Number of employees:	Full time:	Part time:	Seas	onal:
Operating days: monda	y-sunday	Hours	s of operation: $\frac{1}{2}$	0am-4pm
Number of vehicles per d	ay: Passenger:		Trucks:	
vvaler source.	ood Water Co	Sewage disp	osal:	
Provider, if applicable: K	enwood Water Co	Provider, if a	pplicable:	
New noise sources (compressors, power too	uls, music, etc.): <u>none</u>			
than one acre be disturbe excavation, building remo	oval, building construction X If Yes, indicate	ess roads, site า, equipment st area of disturb	preparation and cl aging and mainter ance(acres):	earing, fill or nance, or other
Vegetation to be removed	g: none			
Will proposal require anne	exation to a district in ord	der to obtain pu	blic services: Yes	No <u>x</u>
Are there currently any haprocessed on this site?	azardous materials (cher Yes N		oline, etc.) stored,	used or
Will the use, storage, or p project is authorized?		materials occui o ×	on this site in the	future if this
Fire safety information (exbuilding materials, etc):		anks, hydrants,	emergency access	s and turnaround,

Indemnification Agreement

PJR-011

"As part of this application, applicant agrees to defend, indemnify, release and hold harmless the County, its agents, officers, attorneys, employees, boards and commissions from any claim, action or proceeding brought against any of the foregoing individuals or entities, the purpose of which is to attack, set aside, void or annul the approval of this application or the adoption of the environmental document which accompanies it. This indemnification shall include, but not be limited to, damages, costs, expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in conjunction with the approval of this application, whether or not there is concurrent passive or active negligence on the part of the County. If, for any reason any portion of this indemnification agreement is held to be void or unenforceable by a court of competent jurisdiction, the remainder of the agreement shall remain in full force and effect."

Henry Belmonte	
Applicant Name	Applicant Signature
Henry Belmonte Owner Name	Owner Signature
June 25, 2014 Date	PLP -05- 0009 File No.

NOTE: The purpose of the Indemnification Agreement is to allow the County to be held harmless in terms of potential legal costs and liabilities in conjunction with permit processing and approval.

At-Cost Project Reimbursement

PJR-095

PROJECT File: 10-05-0009	; request for
	, the undersigned, hereby authorize the County of Sononest in accordance with the Sonoma County Code. I am depositi
as a minimum deposit related to my permit request based on actual	it to pay for County staff review, coordination and processing cosual staff time expended and other direct costs. In making th
costs. Actual costs for staff time are base	ed on hourly rates adopted by the Board of Supervisors in the . I also understand and agree that I am responsible for payir
costs. Actual costs for staff time are based most current Sonoma County fee schedule these costs even if the application is with	e. I also understand and agree that I am responsible for payir

I understand and agree to the following terms and conditions of this Reimbursement Agreement:

- Time spent by County of Sonoma staff in processing my application and any direct costs will be billed 1. against the available deposit. "Staff time" includes, but is not limited to, time spent reviewing application materials, site visits, responding by phone or correspondence to inquiries from the applicant, the applicant's representatives, neighbors and/or interested parties, attendance and participation at meetings and public hearings, preparation of staff reports and other correspondence, processing of any appeals, responding to public records act requests or responding to any legal challenges related to the application. "Staff" includes any employee of the Permit and Resource Management Department (PRMD), the Department of Transportation and Public Works and/or the Office of the County Counsel.
- Staff will review the application for completeness and provide me with a good faith estimate of the full 2. cost of processing the permit. This good faith estimate will be included in an At-Cost Fee Agreement The At-Cost Fee Agreement shall be signed by the party responsible for payment of fees, and the requested additional deposit shall be submitted to PRMD to allow continued processing of the project.
- If processing costs exceed the available deposit, I will receive quarterly invoices payable within 30 days of billing.
- 4. I understand that the County desires to avoid incurring permit processing costs without having sufficient funds on deposit. If staff determines that inadequate funds are on deposit for continued processing, staff shall notify me in writing and request an additional deposit amount estimated necessary to complete processing of my application. I agree to submit sufficient funds as requested by staff to process the project through the hearing process within 30 days of the request.
- 5. If the final cost is less than any additional deposits requested by the County (deposits that exceed the initial minimum deposit described above), the unused portion of the additional deposit will be refunded to me within 60 days of final project action.
- If the final cost is more than the available deposit, I agree to pay the difference within 30 days of billing. 6.
- 7. If I fail to pay any invoices or requests for additional deposits within 30 days, the County may either stop processing my permit application, or after conducting a hearing, deny my permit application. If I fail to pay any invoices after my application is approved. I understand that my permit may not vest and may expire, or may be subject to revocation. .

Sonoma County Permit and Resource Management Department

2550 Ventura Avenue 🍫 Santa Rosa, CA 💠 95403-2829 💠 (707) 565-1900 🏟 Fax (707) 565-1103

- 8. If the County determines that any study submitted by the applicant requires a County-contracted consultant peer review, I will pay the actual cost of the consultant review. This cost may vary depending on the complexity of the analysis. Selection of any consultant for a peer review shall be at the sole discretion of the PRMD Director or his designee. The estimated cost of the peer review shall be paid prior to the County initiating any peer review by consultant.
- 9. I agree to pay the actual cost of any public notices for the project as required by State Law and Local Ordinance.
- 10. I may, in writing, request a further breakdown or itemization of invoices, but such a request does not alter my obligation to pay any invoices in accordance with the terms of this agreement.
- 11. I agree to pay all costs related to permit condition compliance as specified in any conditions of approval for my permit/entitlement.

Note: This agreement does not include other agency review fees or the County Clerk Environmental Document filing fees.

Name of Property Owner or Corporate Principal Responsible County Processing Fees (Please Print):	e or Appointed Designee for Payment of all
Name of Company or Corporation (if applicable):	
Mailing Address of the Property Owner or Corporation/Complete Corporation, please attach a list of the names and titles of Corporation	
Signature:*	Date: 6/25/14
Email Address: holmortee ybullass com	Phone Number: 767-975-3991

*ATTENTION - The property owner (or Corporate principal) will be held responsible for all charges.



VJB

Vineyards & Cellars

"Quality above all else, tradition and family history will always prevail"

- Victor Joseph Belmonte

June 25th 2014

Dean Parsons

Project Review Manager Sonoma County PRMD

Re: PLP05-0009 VJB Cellars and Marketplace-application for use permit modification

Dean,

Please find our proposed use permit modification statement per your email dated June 24th.

Food Service-Per our use permit we are permitted to have a marketplace and bbq offerings. This has not changed. We respectfully request the ability to offer pizzas from the wood burning oven (constructed with building permits) daily in con junction with bbq food and the marketplace. Salumi and cheese boards are offered in the form of wine tasting as are all of our menu items. We have a number of different wine tasting scenarios that include food. I am including the "original" marketplace menu, that has NOT changed since final approval was given.

Food pairings and non-food parings (such as guests buying just the salumi boards/cheese(s) or bbq items can enjoy them on the patio/piazza. We do not have "waiters/waitresses". Everything food related is self-serve unless a wine food pairing is taking place.

We are not conducting special events, there for no catered food is being offered.

<u>Public Health</u>-the Public Health Department has issued our facility the highest graded permit. They are also requiring that the outdoor bbq and pizza area be enclosed "when prepping of food takes place", only when prepping of food takes place, therefor when there is just bbq taking place, they can be opened again as we also do wine tasting at this outdoor bar area. We have proposed screens that can be adjusted automatically and can be placed so that when prepping of food is being conducted the screens can be lowered per the requirement of the Public Health and reopened when the process is finished to maintain the ecstatic integrity of the space.

10 m

Special Events-We understand and accept that special events cannot take place until the left hand turn lane is installed on Sonoma Hwy. There for until the left hand turn lane is installed we will not be holding special events. The traffic study submitted April 3, 2014 and reviewed that last time we met at Susan Gorin's office supports the that right hand turn lane is "not warranted". Jason Nutt of Public Works agreed and there for we will be relieved of that obligation.

Hours of Operation- The traffic study submitted April 3, 2014 supports that the tasting room continue to operate as indicated in our use permit from 10 am to 4 pm every day. This will not change.

We request a modification for the market place to be open until 5pm every day. The traffic study submitted April 3, 2014 supports this.

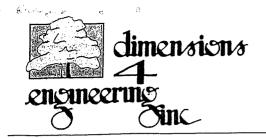
We request a modification for the market place to be open until 7pm on Friday. The traffic study submitted April 3, 2014 supports this.

<u>Septic System-Dimension</u> 4 submitted the analysis on April 25th 2014. I have included that again for your review. Essentially our system has been "over built", simply stated we aren't anywhere close to or might ever get to where the system becomes an issue given any usage of the property. The analysis also supports the new proposed hours of operation.

Parking Analysis-It has been determined and agreed that the Maple Street Gate being opened to existing traffic as evidenced in the traffic study submitted April 3, 2014 will assist our project with traffic flow. The ability to park on Shaw Ave adjacent to our project will also assist with our project as agreed upon by Public Works. Our current employees are parking at Wellington Winery, which we recently purchased approx. two miles away and are carpooling to the VJB location. The original use permit allowed for valet parking within vineyard rows, since we are not conducting special events these rows now(in between olive trees) have been converted to 11 additional hardscape customer parking stalls to assist with onsite parking.

I have also enclosed again the site plan developed by Fifth Resources.





2952 Mendocino Avenue, Suite C Santa Rosa, California 95403 (Office) 707-578-3433 (Fax) 707-526-3433

April 25, 2014

Henry and Vittorio Belmonte VJB Cellars 60 Shaw Ave Kenwood, CA 95452

Subject: VJB Cellars

60 Shaw Ave, Kenwood, CA

Water Usage Study for Expanded Operating Hours

Dear Henry and Vittorio,

Per your request Dimensions 4 Engineering has reviewed water usage based on water meter billings from the Kenwood Water Company. Additionally we have compared water usage to the design capacity for the on-site septic system. Our findings and conclusions are as follows:

From the time period of April 2012 and January 2014, 50,008 gallons were used. Which is an average of 78 gallons per day over the course of 22 months. The highest water use occurred in the month of July 2013 with 3577 gallons, average 115 gallons per day. This does not give information regarding peak per day use which is used in design. We can assume that at 3577 gallons/month there would be 895 gallons/week and if perhaps that value came from 3 weekend days (Fri, Sat, Sun) the peak day flow would be 300 gallons. We know that the facility is open 7 days a week so this would be a conservative approach.

The implemented pressure distributed system was designed for 540 gallons per day. The old existing standard system has a capacity of 300 gallons per day. This means the total capacity for the property is 840 gallons per day. The conservatively assumed peak flows are merely 1/3 of the designed capacity.

Extending the hours of operation from 7 hours per day to 9 hours per day or in other terms from 49 hours a week to 63 hours per week is a 29% increase in operating hours. If you assumed a 29% increase in peak flow, for 9 hours of operation peak flow could possibly be as high as 387 gallons per day. Still only ½ of the designed capacity.

Thinking not of peak daily flow, but of average daily flow which is 78 gallons per day based on water meter readings. This is less than 10% of design capacity. Thus a 29%

increase in average daily flow would be 100 gallons per day, approximately 12% of design capacity.

Thank you,

DIMENSIONS 4 ENGINEERING, INC.

Sam Edwards EIT

Dan Wright, RCE

cc: File



April 3, 2014

Mr. Henry R. Belmonte VJB Vineyards & Cellars 60 Shaw Avenue Kenwood, CA 95452 Whitlock & Weinberger Transportation, Inc.

490 Mendocino Avenue Suite 201 Santa Rosa, CA 95401

voice 707,542,9500 fax 707,542,9590 web www.w-trans.com

Focused Traffic Analysis for the VJB Marketplace Modification

Dear Mr. Belmonte:

As requested, Whitlock & Weinberger Transportation, Inc. (W-Trans) has performed a focused traffic analysis that addresses the proposed changes to the Use Permit for VJB Marketplace located at 60 Shaw Avenue in the Kenwood area of the County of Sonoma. The study of weekday p.m. peak period traffic impacts was completed in accordance with standard criteria, and is consistent with previous analyses and standard traffic engineering techniques.

Proposed Use Permit

VJB Marketplace is located at 60 Shaw Avenue near its intersection with State Route 12 (SR 12). Access to the winery, tasting room and marketplace/deli is provided via a driveway on Shaw Avenue, approximately 250 feet west of SR 12. The site is served by a parking lot with 19 spaces plus two ADA-compliant spaces. There is a secondary access with a locked gate at Maple Avenue, approximately 250 feet west of SR 12.

The project is a proposed change to the Use Permit which would include the following:

- Marketplace/deli hours which currently end at 4:00 would be extended to 5:00 p.m. all week except that on Fridays it would remain open until 7:00 p.m.
- Tasting Room hours which currently end at 4:00 would maintain the same operating hours.
- The vehicle gate at Maple Avenue would be opened.
- Payment would be made to the Sonoma County Transportation & Public Works Department for contribution towards installation of a left-turn lane on SR 12.

Study Area

The study area includes the two intersections on SR 12 at Shaw Avenue and Maple Avenue.

- SR 12/Shaw Avenue
- SR 12/Maple Avenue

Traffic Operation Standards

The County's Level of Service standard for intersections is Level of Service D. The project would have a significant traffic impact if the project's traffic would cause an intersection currently operating at an acceptable level of service (LOS D or better) to operate below the standard (LOS E or F). If the intersection currently operates or is projected to operate below the County standard (at LOS E or F), the project's impact is significant if it causes the average delay for any critical movement to increase by five seconds or more. The delay is determined by comparing intersection operation with and without the project's traffic for both the existing baseline and projected future conditions. These criteria apply to all controlled or uncontrolled intersections with projected traffic volumes that exceed 30 vehicles per hour per approach or per exclusive left turn movement.

Existing Conditions

Corridor Conditions

The community of Kenwood is located approximately 10 miles east of the City of Santa Rosa on SR 12. In the vicinity of the proposed project SR 12 is a two-lane road running in a north-south alignment with narrow shoulders and a posted speed limit of 45 miles per hour (mph). Published traffic volumes from 2011 provided by Caltrans indicate an average daily volume of approximately 16,000 vehicles per day. There is an existing center/left-turn lane on SR 12 for 350-foot distance in the area of Randolph Avenue, north of VJB. Shaw Avenue and Maple Avenue have posted speed limits of 25 mph and are unimproved residential two-lane roads with limited room for parking on the shoulders.

Intersection Level of Service

Intersection turning movement counts were collected at the two study intersections on May 9, 2013. Based on these traffic counts, both intersections are operating acceptably at LOS A overall. The Shaw Avenue approach to SR 12 is operating at LOS D and the Maple Avenue approach at LOS C. Results are shown in Table I and the calculations are enclosed.

Table I

Existing and Existing plus Project PM Peak Hour Intersection Levels of Service

Study Intersection	Existing C	Conditions	Existing pl	us Project
Approach	Delay	LOS	Delay	LOS
Shaw Ave/Sonoma Hwy	0.3	Α	0.4	Α .
Eastbound approach	26.0	D	29.0	D
2. Maple Ave/Sonoma Hwy	0.1	Α	0.1	Α
Eastbound approach	24.5	С	23.4	С

Notes: Delay is measured in average seconds per vehicle; LOS = Level of Service; Results for the stop-controlled minor approaches are indicated in italics

Turn Lane Warrants

The need for a left-turn and/or right-turn lane on SR 12 was evaluated based on criteria contained in the Intersection Channelization Design Guide, National Cooperative Highway Research Program (NCHRP)

Report No. 279, Transportation Research Board, 1985. Considering existing traffic volumes, left-turn lanes are warranted at both Shaw Avenue and Maple Avenue, although the volume of left-turn movements during the p.m. peak hour is only six vehicles and two vehicles, respectively. A right-turn lane on SR 12 was not found to be warranted at either location. Copies of the spreadsheets indicating the turn lane warrants are enclosed. It should be noted that the need for additional turn lanes on the Shaw Avenue and Maple Avenue approaches to SR 12 are assessed based on level of service conditions rather than these warrants.

Project Traffic

Although the Marketplace and Tasting Room at VJB are currently in operation, both uses close at 4:00 p.m. so do not impact traffic conditions during the traditional weekday p.m. peak hour. In order to assess the impacts of extending the hours of both of these uses, new vehicle trips were estimated. For the purpose of estimating the number of new trips which the proposed project can be expected to generate, *Trip Generation Manual*, 9th Edition, Institute of Transportation Engineers, 2012, was used. For the tasting room, the ITE rate for a "drinking place" was used. For the marketplace/deli, the ITE rate for a "Quality Restaurant" was used.

As shown in Table 2, the proposed change to the use permit is expected to generate an average of 17 new vehicle trips during the p.m. peak hour.

Table 2
Trip Generation Summary

Land Use	Units		PM P	eak	
		Rate	Trips	ln	Out
Tasting Room	0.9 ksf	7.48	10	7	3
Marketplace (ITE #150)	0.9 ksf	5.02	7	5	2
Total			17	12	5

Note: ksf = thousand square feet

Existing plus Project Conditions

Intersection Level of Service

With the addition of project trips, both intersections would continue to operate acceptably at LOS A overall. Both side street approaches on Shaw Avenue and Maple Avenue would continue to operate at LOS D and C, respectively, representing an acceptable impact. These acceptable level of service conditions indicate that no turn lane expansions are necessary on the Shaw Avenue and Maple Avenue approaches to SR 12. Results are shown in Table I and the calculations are attached.

Turn Lane Warrants

The need for right-turn lanes on SR 12 was evaluated for Existing plus Project conditions. Left-turn lanes are currently warranted at both SR 12/Shaw Avenue and SR 12/Maple Avenue. A right-turn lane on SR 12 will not be warranted with the addition of the project traffic volumes. Copies of the spreadsheets indicating the turn lane warrants are enclosed.

Back Gate to Maple Avenue

Based on a review of the area circulation, it is recommended that the back gate on Maple Avenue at VJB remain open during business hours for both inbound and outbound traffic. This opening would help to spread the traffic demand to two streets rather than one and would allow greater flexibility in gaining access to and departing from the site. It would also reduce any traffic impacts to neighboring streets when traffic turns onto Maple Avenue rather than Shaw Avenue.

Summary and Recommendations

- Both study intersections are operating at acceptable levels of service under Existing Conditions and are expected to continue operating acceptably with the addition of project-generated traffic.
- With acceptable level of service conditions on the stop controlled approaches under both Existing and Existing plus Project conditions, no turn lane expansions are necessary on the Shaw Avenue and Maple Avenue approaches to SR 12.
- The need for a right-turn lane on SR 12 was evaluated under Existing and Existing plus Project
 conditions for both study intersections. Under both Existing and Existing plus Project conditions, a
 right-turn lane on SR 12 is not warranted for either of the study intersections.
- The need for a left-turn lane on SR 12 was evaluated under Existing and Existing plus Project
 conditions for both study intersections. Under Existing conditions, a left-turn lane is warranted at
 both study intersections. Therefore, the turn lane is also warranted under any future conditions.
- It is recommended that VJB pay a contribution towards future construction of left-turn lanes on SR
 12
- It is recommended that the back gate at VJB remain open during business hours for both inbound
 and outbound traffic to provide greater access flexibility and also reduce any traffic impacts to
 neighboring streets when traffic turns onto Maple Avenue rather than Shaw Avenue.

Exp. 12/31/14

If you have any questions regarding this analysis, please give me a call.

Sincerely.

Steve\Weinberger, FE, PTOE

Principal

Enclosures: LOS Calculations

Turn Lane Warrants

SJW/sjw/SOX227.L3

Copy: Jim Ford, The Fifth Resource (via email)

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PM Exist	

Page 3-1

Mon Jun 17, 2013 11:01:22

PM Existing

Page 2-1

The computation Report The computation Rep		PM Traffic	M Peak c Study	Hour for Coun	ting B Mar Sonom	Conditions ketplace P a	ons e Project	ig t		
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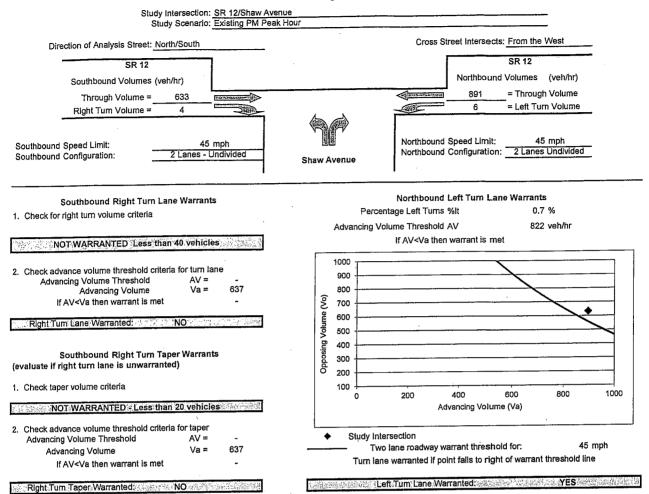
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•			
	PM Peak Hour - Existing plus Project Conditions	Traffic Study for the VJB Marketplace Project	County of Sonoma

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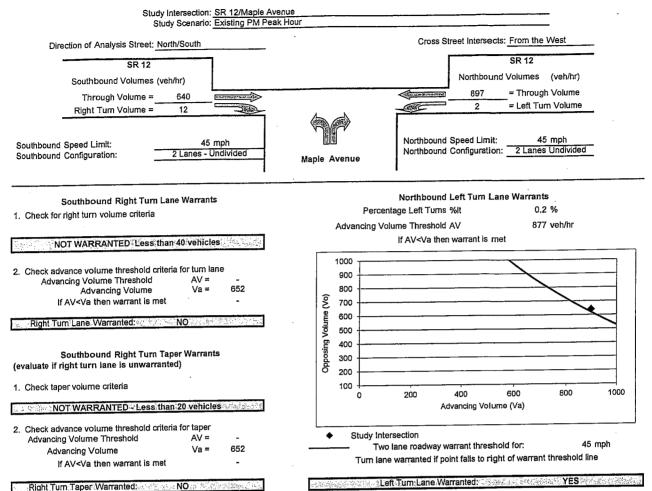
	PM Peak Traffic	M Peak Hour - Traffic Study	Exis for Cour	sting p the VJ nty of	plus Pr /JB Mark E Sonoma	plus Project Condition VJB Marketplace Project f Sonoma	Condi	Conditions e Project			!
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Methodology based on Washington State Transportation Center Research Report Method For Prioritizing Intersection Improvements, January 1997. The right turn lane and taper analysis is based on work conducted by Cottrell in 1981.

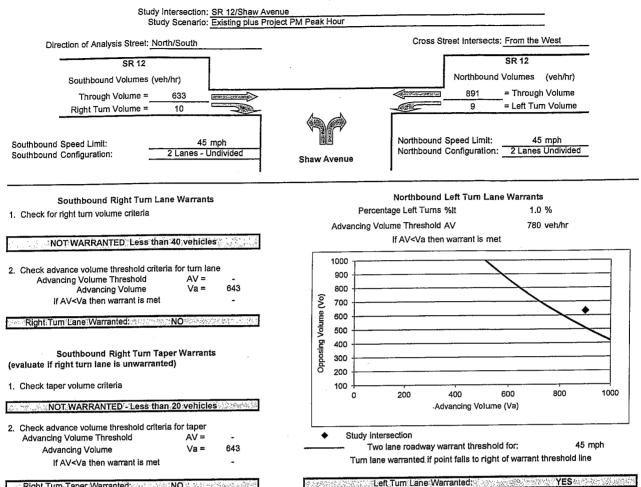
The left turn lane analysis is based on work conducted by M.D. Harmelink in 1967, and modified by Kikuchi and Chakroborty in 1991.



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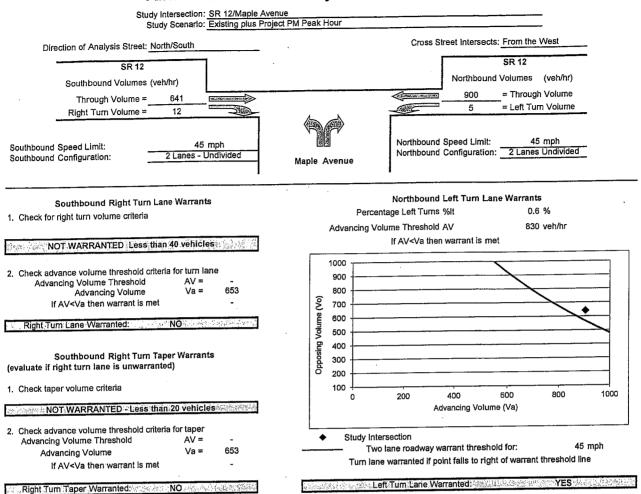
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Right Turn Taper Warranted: NO



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The right turn lane and taper analysis is based on work conducted by Content 1991.

The left turn lane analysis is based on work conducted by M.D. Harmelink in 1967, and modified by Kikuchi and Chakroborty in 1991.

