

October 29, 2017

Jim Kahn  
Kusalakari Corp.  
9698 South Priest Road  
French Camp, CA 95231

**RE: Traffic Impact Analysis Review for Buddhist Religious Assembly**

Dear Jim:

You have retained my service to review the traffic related impacts to expand a religious assembly for the Kusalakari Burmese Buddhist Assembly located at 9698 South Priest Road in French Camp. This letter describes the existing conditions surrounding the proposed development along with a discussion of its potential impacts.

**Existing Site Conditions**

The development is located on the east side of South Priest Road approximately one-mile south of downtown French Camp. The surrounding development includes rural and suburban residential and agriculture. The property is approximately 5-acres and currently has an existing single-family home and a large barn.

South Priest Road is a two-lane county road and is designated as a Local Commercial / Industrial road per the San Joaquin County 2035 General Plan Background Report. Existing traffic along this section of roadway is approximately 700 average daily traffic (ADT).

**Proposed Site Plan**

The proposed site plan envisions a new assembly hall (pagoda); a shed for maintenance and storage; a kitchen for food service, including restroom facilities; women's short-term housing for up to 30 persons; and men's short-term housing for up to 20 persons. Parking will be added that will allow for 53 spaces including accessible spaces along with 6 visitor spacing. Bicycle parking will also be provided.

**Existing Roadway and Traffic Conditions**

The main routes to the site are French Camp Road from the north and Roth Road to the south. Roth Road also has an interchange with Interstate 5 and French Camp Road has an interchange with Highway 99. South Priest Road has a direct connection to French Camp Road and connects to Roth Road via East Watters Road connection to South McKinley Ave, a Major Collector.

South Priest Road is a low volume Local Commercial / Industrial Road with approximately 700 ADT per the most recent traffic analysis within the area. Further, the church performed both a weekday (Friday August 11, 2017) and weekend (Sunday August 20, 2017) peak hour counts along the frontage of the property. Weekday AM Peak hour volumes between the hour of 8:00 and 9:00 AM was 34 and PM Peak hour volumes between the hour of 5:00 and 6:00 was 44 ADT for both directions of travel. The PM Peak hour governs and equates to approximately 440 ADT. The weekend AM Peak hour volume was 30 and PM Peak hour was 42. Volumes were generally slightly higher in each period, but the higher peak hour factor and volumes occurred on the weekday.

### Estimated Trip Generation

Estimates of daily vehicle trip ends for the proposed development were based on empirical observations at similar developments. These observations are summarized in the standard reference *Trip Generation, 9<sup>th</sup> Edition*, published by the Institute of Transportation Engineers. Unfortunately, there are no specifics for a Buddhist assembly, much less one that serves the Burmese Theravada Buddhist Community. This analysis will contrast several institutional uses available in the manual along with specifics for this unique use (applicant provided data).

<b>Sample Trip Generation Estimates</b>					
Church (ITE Code 560)	Trips/Thousand Square Feet (TSF)	No. TSF	Trips		
			Total	Enter	Exit
				50%	50%
Daily	9.11	1	9	5	4
				54%	46%
PM Peak Hour	0.94	1	1	1	1
				55%	45%
AM Peak Hour	0.87	1	1	1	1
				50%	50%
Sunday Daily	36.63	1	37	19	18

<b>Sample Trip Generation Estimates</b>					
Mosque (ITE Code 562)	Trips/Thousand Square Feet (TSF)	No. TSF	Trips		
			Total	Enter	Exit
				50%	50%
Daily	-	1	-	-	-
				67%	33%
PM Peak Hour	11.02	1	11	7	4
				50%	50%
AM Peak Hour	1.63	1	2	1	1
				50%	50%
Sunday Daily	-	1	-	-	-

<b>Sample Trip Generation Estimates</b>					
Synagogue (ITE Code 561)	Trips/Thousand Square Feet (TSF)	No. TSF	Trips		
			Total	Enter	Exit
				50%	50%
Daily	10.64	1	1	6	5
				47%	53%
PM Peak Hour	1.69	1	2	1	1
				56%	44%
AM Peak Hour	0.42	1	1	1	0
				50%	50%
Sunday Daily	22.50	1	23	12	11

*Comparison of proposed use to that of a church or other institutional use:*

The proposed facility is similar to a typical church facility. It will provide religious instruction, counseling, a place for people to come and pray or meditate and provides meditation training as this is the backbone of the Buddha's teaching.

A significant difference between this facility and a church (in terms of traffic impacts) is that a church typically has regular services on weekends and weekdays whereas a Burmese Monastery does not include such regular services. Instead, worshippers come at a time that meets their own schedule. Upon their arrival they will usually meet with the resident Monk and will then pray or meditate for an hour or two and then depart. This distinguishes this project from other churches, where all worshippers are expected to arrive and depart within the same 15-20 minute time period.

Another difference is that this facility will from time to time offer residential intensive meditation retreats where participants are required to stay on site for the duration of the Retreat. Participants commit to not leaving the facility during the Retreat and, if they do, they will not be permitted to return during that Retreat. These sessions of intensive religious instruction are mostly held in 3 or 10-day sessions.

Everything needed by persons receiving this training including meals and housing are provided by the facility and thus there is no need for anyone to leave the site during these sessions. The housing is only for use by those taking the 3 or 10-day training.

Trip generation should be looked at in two ways; those trips generated during periods of Meditation Retreats and then at other times when it operates more like a monastery.

*Use during Meditation Retreats:*

38 bedrooms are planned for within the next 8-years. Nine of these bedrooms will be 'doubles' and the remaining 29 will be single person accommodations resulting in a total of 47 persons. Examinations at similar facilities have shown that of these 47 persons 30% will either ride share or take public transportation.



Courses typically begin on Wednesdays at 6 pm and finish on Sundays at 6:30 am. Those taking a course are permitted to arrive the evening before the starting day or between 9 am and 4 pm on the day the Retreat begins. Based on experience with similar facilities, approximately 75% of the participants will arrive between noon and 4:30 pm.

On the final day of a Retreat participants are encouraged to stay and help clean up the facility after the course finishes (6:30 am). This results in a staggered departure of persons. Estimates at similar facilities have shown that 50% of the students will leave between 6:30 and 9:30 am and the remaining persons will depart between 9:30 am and 4:00 pm.

Even though students attending the Retreats are housed on site and are not permitted to leave the facility there will be other activities that take place that will generate trips which include the following:

- During courses it can be expected that food deliveries will occur 1 time every 3 days.
- Persons from neighboring communities will oftentimes volunteer their time to help out at the facility during Retreats. This number of persons arriving and departing the site on a given day will not exceed six.
- There may also be a small number of administrative staff that will come each day, but this number will not exceed four.
- Guests just visiting the facility will be no more than 10 on a weekday, more than 25 on a Saturday and less than 40 on a Sunday.
- Additionally, there is a single-family residence used by 2 Monks, but these Monks will be staying on site while Retreats are underway.

*Traffic generation when the facility is not operating as a Meditation Retreat:*

Typically, Monday through Friday will see very few persons coming to the site and it is doubtful that more than 10 would come on any given weekday. These persons would arrive and depart during regular hours of operation. Most would be coming before or after their workday.

Occasionally there may be some administrative staff but this will not exceed 2 persons in a day.

Saturdays and Sundays will typically be the days that will see the most activity as many people are off from work on those days. On these days there may be as many as 25 people coming on Saturdays and up to 40 on Sundays. Based on County standards for Neighborhood Religious Assemblies San Joaquin County requires that 1 car will be added to the traffic stream for every 3 persons arriving at the site. As most of those arriving on



Saturdays or Sundays will be families we believe this is a reliable number. Note that persons coming to the facility on these days generally stay for 2 or 3 hours and then depart and rarely, if ever, stay the entire day.

*Holidays:*

Four or five times each year there will be holidays celebrated where as many as 200 attendees can be expected over the course of a single day. These holiday 'services' do not have a fixed beginning or ending time but rather people come and go throughout the day between the hours of 7:00 AM and 8:00 PM. Typically the greatest number of people at one time can be expected between the hours of 9:00 AM and 1:00 PM. These holidays mostly attract families and therefore it can be expected that an average of 1 car will be used for every 3 persons attending.

*Summary of trip generation:*

Some of the more significant holidays will result in the greatest number of trips in a single day and arrivals will mostly occur between the hours of 7:00 AM and 12:00 PM. with departures occurring between 1:00 PM and 8:00 PM.

During weekdays the busiest day will likely be Wednesday's when a course is just beginning. On this day the following numbers can be anticipated:

Course attendees arriving and not departing:	33 cars
Staff arriving and leaving:	6 cars
10 guests (3 per car):	6 cars
Ancillary trips (meter reading, mail, trash, etc)	2 cars
Total anticipated trips between 6:30 am and 7:30 pm	49 trips

Trip generation is based on averages and not maximums. The table below represents a very reasonable average to be considered for this unique facility.

<b>Proposed Trip Generation Estimates</b>				
Buddhist Temple (ITE Code N/A)	Trips	Trips		
		Total	Enter	Exit
			50%	50%
Daily	60	60	30	30
			55%	45%
PM Peak Hour	7	7	4	3
			75%	25%
AM Peak Hour	6	1	4	2
			50%	50%
Sunday Daily	28	28	14	14

**Estimate Trip Distribution and Assignment**

The site trip distribution is based upon existing traffic counts as well as engineering judgment and knowledge of the area. During the PM Peak hour volumes split approximately 50% from the north and 50% from the south along South Priest Road.

The site is estimated to generate approximately 7 PM Peak hour trips and 6 AM Peak hour trips coming or going from the site. Daily trips will increase by 15 trips from the north and the south. PM Peak hour trips will have 2 southbound left turns and 2 northbound right turns into the site along with two left turn and one right turn leaving the site.

**Recommendation**

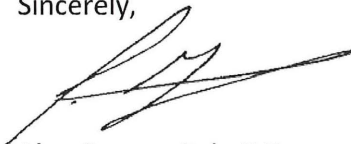
The proposed development generates 7 PM Peak hour and 6 AM Peak hour trips on a daily basis. This volume is very low and would not warrant an analysis at any controlled or uncontrolled intersection near the project following San Joaquin County requirements of 50 peak hour trips as a threshold for analysis. Critical movements entering and exiting the site are very low and do not warrant turn lane analysis.

If the site is used to its maximum potential under the General Plan designation it could develop up to 60 single family dwelling units. This could generate up to 571 ADT and 61 PM Peak hour trips. The peak hour of a potential residential development would generate more than the average daily trips from this development. Therefore, this development proposal is significantly less than a maximum potential development of the property and will serve the needs of the County's residence without impacting the surrounding community.

Based on the low vehicle volumes generated in the peak hours and the proximity to both Interstate 5 and Highway 99, I do not recommend requiring a traffic impact analysis for this project.

Thank you and if you have any comments or questions, please let me know.

Sincerely,



Alex Georgevitch, P.E.

Attachments: Conceptual Site Plan  
Traffic Counts  
Trip Generation Summary





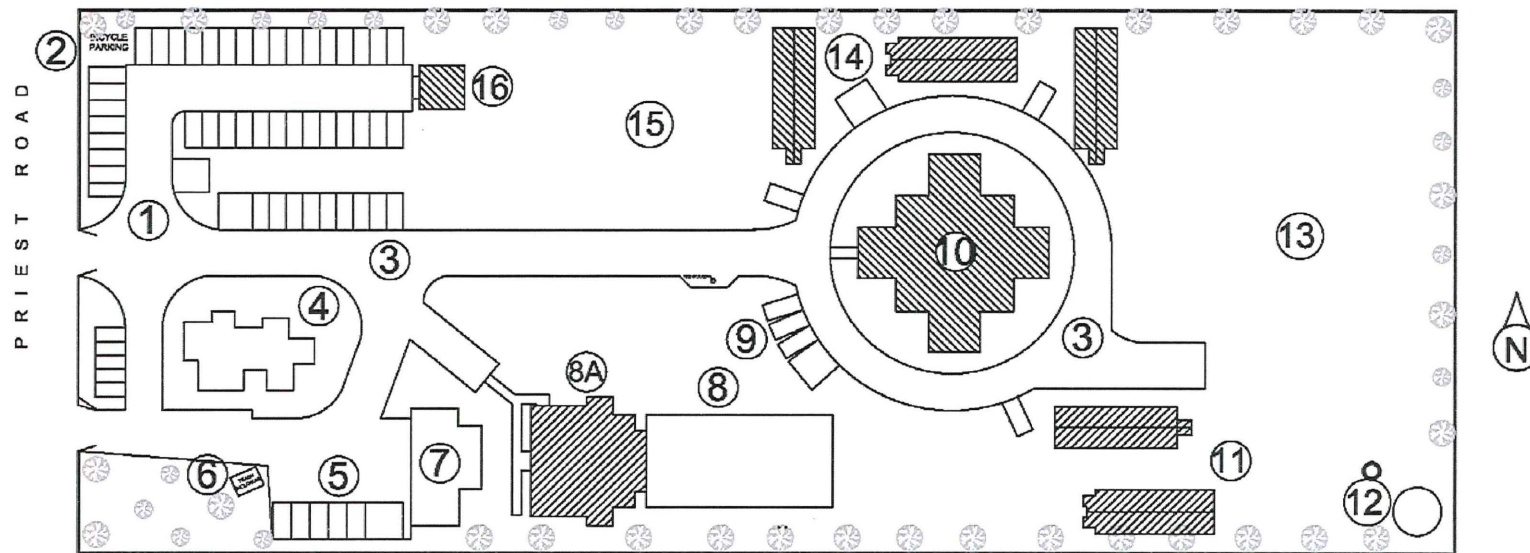
# Conceptual Site Plan

## KUSALAKARI CONCEPTUAL SITE PLAN

9698 S. PRIEST RD, FRENCH CAMP, CA  
AUGUST, 2017

### LEGEND

-  Proposed new building
-  Existing building



### KEY

- |  |  |  |  |
|--|--|--|--|
| ① Principal parking area which includes 53 paved parking spaces and Accessible parking | ⑤ Visitor parking (6 spaces)   | ⑧a Kitchen, food service and restrooms addition      | ⑫ Well and water storage                   |
| ② Bicycle racks  | ⑥ Trash enclosure  | ⑨ Accessible parking as well as parking for the aged | ⑬ Garden area and statuary                 |
| ③ Emergency access drive and general site access                                       | ⑦ Existing Barn converted to reception, administrative activities and meeting room | ⑩ Assembly Hall; Pagoda                              | ⑭ Women's short-term housing; (30 persons) |
| ④ Existing single family residence for Monks   | ⑧ Existing steel pavillion converted to Assembly hall and dining area              | ⑪ Men's short-term housing; (20 persons)             | ⑮ Garden and sitting area                  |
|  |  |  | ⑯ Maintenance and storage                  |



<b>FRENCH CAMP TRAFFIC COUNTS; South Priest Road</b>
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Total number of vehicles passing by facility traveling both North and South along S. Priest Road
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DATE: AUGUST 11, 2017
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DAY OF WEEK:	FRIDAY
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START TIME		END TIME	NUMBER OF VEHICLES
7:00 AM	to	7:30 AM	11
7:30 AM	to	8:00 AM	12
8:00 AM	to	8:30 AM	16
8:30 AM	to	9:00 AM	18
TOTAL FOR 2 HOUR PERIOD:			57

START TIME		END TIME	NUMBER OF VEHICLES
4:00 PM	to	4:30	21
4:30 AM	to	5:00	15
5:00 PM	to	5:30	20
5:30 AM	to	6:00	24
TOTAL FOR 2 HOUR PERIOD:			80

<b>FRENCH CAMP TRAFFIC COUNTS; South Priest Road</b>
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Total number of vehicles passing by facility traveling both North and South along S. Priest Road
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DATE: AUGUST 20, 2017
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DAY OF WEEK:	SUNDAY
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START TIME		END TIME	NUMBER OF VEHICLES
8:00 AM	to	8:30 AM	21
8:30 AM	to	9:00 AM	9
9:00 AM	to	9:30 AM	14
9:30 AM	to	10:00 AM	16
TOTAL FOR 2 HOUR PERIOD:			60

START TIME		END TIME	NUMBER OF VEHICLES
4:00 PM	to	4:30	28
4:30 AM	to	5:00	14
5:00 PM	to	5:30	18
5:30 AM	to	6:00	13
TOTAL FOR 2 HOUR PERIOD:			73

**Detailed Land Use Data**  
For 1 Gross Floor Area 1000 SF of CHURCH 1  
( 560 ) Church

Open Date: 10/28/2017  
Analysis Date: 10/28/2017

Project: 17-004

Day / Period	Total Trips	Pass-By Trips	Avg Rate	Min Rate	Max Rate	Std Dev	Avg Size	% Enter	% Exit	Use Eq.	Equation	R2
Weekday Average Daily Trips Source : Trip Generation Manual 9th Edition	9	0	9.11	4.35	30.2	7.2	19	50	50	False		
Weekday AM Peak Hour of Generator Source : Trip Generation Manual 9th Edition	1	0	0.87	0.3	6.61	1.57	31	55	45	False		
Weekday AM Peak Hour of Adjacent Street Traffic Source : Trip Generation Manual 9th Edition	1	0	0.56	0.08	6.61	1.45	30	62	38	False		
Weekday PM Peak Hour of Generator Source : Trip Generation Manual 9th Edition	1	0	0.94	0.38	4.04	1.26	31	54	46	False	$\ln(T) = 0.42 \ln(X) + 2.0$	0.63
Weekday PM Peak Hour of Adjacent Street Traffic Source : Trip Generation Manual 9th Edition	1	0	0.55	0.21	2.1	0.87	26	48	52	False	$T = 0.34(X) + 5.24$	0.55
Saturday Average Daily Trips Source : Trip Generation Manual 9th Edition	10	0	10.37	2.35	56.83	16.74	19	50	50	False		
Saturday Peak Hour of Generator Source : Trip Generation Manual 9th Edition	4	0	3.54	0.4	23.32	6.87	19	71	29	False		
Sunday Average Daily Trips Source : Trip Generation Manual 9th Edition	37	0	36.63	19.15	113.38	29.13	19	50	50	False	$\ln(T) = 0.59 \ln(X) + 4.77$	0.51
Sunday Peak Hour of Generator Source : Trip Generation Manual 9th Edition	12	0	12.04	5.17	51.27	8.72	32	49	51	False	$T = 9.48(X) + 82.08$	0.71



**Detailed Land Use Data**  
For 1 Gross Floor Area 1000 SF of MOSQUE 1  
( 562 ) Mosque

Open Date: 10/28/2017  
Analysis Date: 10/28/2017

Project: 17-004

<u>Day / Period</u>	<u>Total Trips</u>	<u>Pass-By Trips</u>	<u>Avg Rate</u>	<u>Min Rate</u>	<u>Max Rate</u>	<u>Std Dev</u>	<u>Avg Size</u>	<u>% Enter</u>	<u>% Exit</u>	<u>Use Eq.</u>	<u>Equation</u>	<u>R2</u>
Weekday AM Peak Hour of Generator Source : Trip Generation Manual 9th Edition	2	0	1.63				7	50	50	False		
Weekday PM Peak Hour of Generator Source : Trip Generation Manual 9th Edition	11	0	11.02				7	67	33	False		
Friday Peak Hour of Generator Source : Trip Generation Manual 9th Edition	18	0	18.37				7	96	4	False		

**Detailed Land Use Data**  
For 1 Gross Floor Area 1000 SF of SYNAGOGUE 1  
( 561 ) Synagogue

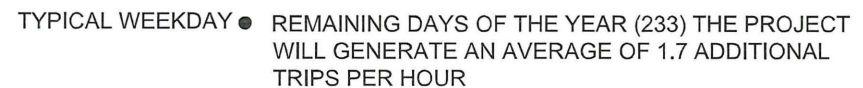
Project: 17-004

Open Date: 10/28/2017  
Analysis Date: 10/28/2017

Day / Period	Total Trips	Pass-By Trips	Avg Rate	Min Rate	Max Rate	Std Dev	Avg Size	% Enter	% Exit	Use Eq.	Equation	R2
Weekday Average Daily Trips Source : Trip Generation Manual 9th Edition	11	0	10.64				21	50	50	False		
Weekday AM Peak Hour of Generator Source : Trip Generation Manual 9th Edition	0	0	0.42				21	56	44	False		
Weekday AM Peak Hour of Adjacent Street Traffic Source : Trip Generation Manual 9th Edition	0	0	0.14				21	50	50	False		
Weekday PM Peak Hour of Generator Source : Trip Generation Manual 9th Edition	2	0	1.69				21	47	53	False		
Weekday PM Peak Hour of Adjacent Street Traffic Source : Trip Generation Manual 9th Edition	2	0	1.69				21	47	53	False		
Saturday Average Daily Trips Source : Trip Generation Manual 9th Edition	6	0	5.91				21	50	50	False		
Saturday Peak Hour of Generator Source : Trip Generation Manual 9th Edition	3	0	2.73	1.12	3.87		26	42	58	False		
Sunday Average Daily Trips Source : Trip Generation Manual 9th Edition	23	0	22.5				21	50	50	False		
Sunday Peak Hour of Generator Source : Trip Generation Manual 9th Edition	8	0	7.58	7.22	7.83		26	49	51	False		

Source: Institute of Transportation Engineers, Trip Generation Manual 9th Edition, 2012  
**TRIP GENERATION 10, TRAFFICWARE, LLC**

KUSALAKARI MONASTERY, FRENCH CAMP, CA, USA REVISED-FEB. 2018





## ANALYSIS OF VEHICULAR TRIP GENERATION BY DAY OR EVENT

revised February 2018

KUSALAKARI MONASTERY, 9698 SOUTH PRIEST ROAD, FRENCH CAMP, CA

EVENT/DAY:	WEEKDAY	DAY OF WEEK:	MON.-FRI.	FREQUENCY:	260 DAYS PER YEAR
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MAX. NUMBER OF VEHICLES / OCCASION:	12
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MAXIMUM # PERSONS ON SITE AT ANY ONE TIME:	15
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AVERAGE # PERSONS PER VEHICLE:	1.25
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**SPECIAL NOTES:**

(1) The number of occupants per vehicle has been reduced from the County standard of 3 persons per vehicle which increases the number of vehicles entering and leaving the site. The purpose for doing this is to provide a 'worst case scenario'.

### AVERAGE TRIP GENERATION PER HOUR PER WEEKDAY

TIME PERIOD	VEHICLES ARRIVING	VEHICLES DEPARTING	TOTAL ENTER & DEPART	AVG. # VEHICLES PER HOUR	VEHICLES REMAINING ON SITE	PERSONS REMAINING ON SITE
6:30 AM TO 7AM	0	0	0	0	0	0
7 AM TO 9 AM	2	0	2	1	2	2.5
9 AM TO 11 AM	4	2	6	3	4	5
11 AM TO 1 PM	2	0	2	1	6	7.5
1 PM TO 2 PM	0	3	3	3	3	3.75
2 PM TO 4 PM	0	3	3	1.5	0	0
4 PM TO 6 PM	1	0	1	0.5	1	1.25
6 PM TO 9 PM	3	4	7	2.3	0	0
	12	12	24			
AVG # VEHICLES ENTERING AND DEPARTING PER HOUR PER DAY OR EVENT:				1.7		

(1)

## ANALYSIS OF VEHICULAR TRIP GENERATION BY DAY OR EVENT

revised February 2018

KUSALAKARI MONASTERY, 9698 SOUTH PRIEST ROAD, FRENCH CAMP, CA

OCCASION: SATURDAY DAY OF WEEK: SATURDAY FREQUENCY: 52 DAYS PER YEAR

MAX. NUMBER OF VEHICLES / OCCASION: 18

MAXIMUM # PERSONS ON SITE AT ANY ONE TIME: 20

AVERAGE # PERSONS PER VEHICLE: 1.4

### SPECIAL NOTES

(1) The number of occupants per vehicle has been reduced from the County standard of 3 persons per vehicle which increases the number of vehicles entering and leaving the site. The purpose for doing this is to provide a 'worst case scenario'.

### AVERAGE TRIP GENERATION PER HOUR PER SATURDAY

TIME PERIOD	VEHICLES ARRIVING	VEHICLES DEPARTING	TOTAL ENTER & DEPART	AVG. # VEHICLES PER HOUR	VEHICLES REMAINING ON SITE	PERSONS REMAINING ON SITE
6:30 AM TO 7AM	0	0	0	0	0	0
7 AM TO 9 AM	2	0	2	1	2	2.8
9 AM TO 11 AM	6	2	8	4	6	8.4
11 AM TO 1 PM	2	0	2	1	8	11.2
1 PM TO 2 PM	1	4	5	5	5	7
2 PM TO 4 PM	1	2	3	1.5	4	5.6
4 PM TO 6 PM	3	3	6	3	4	5.6
6 PM TO 9 PM	3	7	10	3.3	0	0
	18	18	36			
AVG # VEHICLES ENTERING AND DEPARTING PER HOUR PER OCCASSION:				2.5		

## ANALYSIS OF VEHICULAR TRIP GENERATION BY DAY OR EVENT

revised February 2018

KUSALAKARI MONASTERY, 9698 SOUTH PRIEST ROAD, FRENCH CAMP, CA

EVENT/DAY: SUNDAY

DAY OF WEEK: SUNDAY

FREQUENCY: 52 DAYS PER YEAR

MAX. NUMBER OF VEHICLES / OCCASION: 30

MAXIMUM # PERSONS ON SITE AT ANY ONE TIME: 40

AVERAGE # PERSONS PER VEHICLE: 2

### SPECIAL NOTES

(1) The number of occupants per vehicle has been reduced from the County standard of 3 persons per vehicle which increases the number of vehicles entering and leaving the site. The purpose for doing this is to provide a 'worst case scenario'.

### AVERAGE TRIP GENERATION PER HOUR PER SUNDAY

TIME PERIOD	VEHICLES ARRIVING	VEHICLES DEPARTING	TOTAL ENTER & DEPART	AVG. # VEHICLES PER HOUR	VEHICLES REMAINING ON SITE	PERSONS REMAINING ON SITE
6:30 AM TO 7AM	0	0	0	0	0	0
7 AM TO 9 AM	2	0	2	1	2	4
9 AM TO 11 AM	6	3	9	4.5	5	10
11 AM TO 1 PM	4	3	7	3.5	6	12
1 PM TO 2 PM	2	3	5	5	5	10
2 PM TO 4 PM	11	2	13	6.5	14	28
4 PM TO 6 PM	5	2	7	3.5	17	34
6 PM TO 9 PM	0	17	17	5.7	0	0
	30	30	60			
AVG # VEHICLES ENTERING AND DEPARTING PER HOUR PER EVENT/DAY:				4.1		



ANALYSIS OF VEHICULAR TRIP GENERATION BY DAY OR EVENT						
revised February 2018						
KUSALAKARI MONASTERY, 9698 SOUTH PRIEST ROAD, FRENCH CAMP, CA						
<b>OCCASION:</b>	MEDITATION RETREAT; STARTING DAY	<b>DAY OF WEEK:</b>	TYPICALLY WEDNESDAYS	<b>FREQUENCY:</b>	MAXIMUM 10x PER YEAR	
<b>MAX. NUMBER OF VEHICLES / OCCASION:</b>		60		<b>MAXIMUM # PERSONS ON SITE AT ANY ONE TIME:</b>		65
<b>AVERAGE # PERSONS PER VEHICLE:</b>		1.1				
<p><b>SPECIAL NOTES</b></p> <p>(1) The number of occupants per vehicle has been reduced from the County standard of 3 persons per vehicle which increases the number of vehicles entering and leaving the site. The purpose for doing this is to provide a 'worst case scenario'.</p> <p>(2) The table below represents traffic for the starting day of the course. Persons attending these course are required to remain on site for the duration of the course. Persons leaving during a course will not be permitted to return into the course.</p> <p>(3) This data is for 3 day and 10 day Retreats. A maximum of five 10 day retreats and five 3 day retreats will be held each year.</p> <p>(4) Typical weekday attendance data has been added to the attendance data for retreats.</p> <p>(5) Numbers used envision a 100% occupancy rate in the residences which is a very unusual occurrence.</p>						
<b>AVERAGE TRIP GENERATION PER HOUR PER RETREAT OPENING DAY</b>						
TIME PERIOD	VEHICLES ARRIVING	VEHICLES DEPARTING	TOTAL ENTER & DEPART	AVG. # VEHICLES PER HOUR	VEHICLES REMAINING ON SITE	PERSONS REMAINING ON SITE
ARRIVALS ON DAY BEFORE COURSE	3	0	3	6	3	3.3
7AM TO 9AM	2	2	4	2	0	0
9 AM TO 12 PM	8	6	14	4.7	5	5.5
12PM TO 4 PM	41	7	48	12	39	42.9
4 PM TO 6 PM	4	6	10	5	37	40.7
6 PM TO 9PM	2	5	7	2.3	34	54
	60	26	86			
AVG # VEHICLES ENTERING AND DEPARTING PER HOUR PER EVENT:				6.1		

ANALYSIS OF VEHICULAR TRIP GENERATION BY DAY OR EVENT						revised February 2018
KUSALAKARI MONASTERY, 9698 SOUTH PRIEST ROAD, FRENCH CAMP, CA						
<b>OCCASION:</b>	MEDITATION RETREAT; CLOSING DAY	<b>DAY OF WEEK:</b>	TYPICALLY SUNDAYS	<b>FREQUENCY:</b>	MAXIMUM 10 DAYS PER YEAR	
<b>MAX. NUMBER OF VEHICLES / OCCASION:</b>		60		<b>MAXIMUM # PERSONS ON SITE AT ANY ONE TIME:</b>		65
<b>AVERAGE # PERSONS PER VEHICLE:</b>		1.1				
<p><b>SPECIAL NOTES</b></p> <p>(1) The number of occupants per vehicle has been reduced from the County standard of 3 persons per vehicle which increases the number of vehicles entering and leaving the site. The purpose for doing this is to provide a 'worst case scenario'.</p> <p>(2) The table below represents traffic for the attiring day of the course. Persons attending these course are required to remain on site for the duration of the course. Persons leaving during a course will not be permitted to return into the course.</p> <p>(3) This data is for 3 day and 10 day Retreats. A maximum of five 10 day retreats and five 3 day retreats will be held each year.</p> <p>(4) Typical sunday attendance data has been added to the attendance data for retreats.</p> <p>(5) Numbers used envision a 100% occupancy rate in the residences which is a very unusual occurrence.</p>						
AVERAGE TRIP GENERATION PER HOUR PER RETREAT CLOSING DAY						
TIME PERIOD	VEHICLES ARRIVING	VEHICLES DEPARTING	TOTAL ENTER & DEPART	AVG. # VEHICLES PER HOUR	VEHICLES REMAINING ON SITE	PERSONS REMAINING ON SITE
START OF CLOSING DAY					34	54
6:30AM TO 7 AM	4	3	7	14	35	38.5
7AM TO 9 AM	3	20	23	11.5	18	19.8
9AM TO 11 AM	6	10	16	8	14	15.4
11AM TO 1 PM	0	8	8	4	6	6.6
1 PM TO 2 PM	2	3	5	2.5	5	5.5
2PM TO 4PM	11	3	14	7	13	14.3
4 PM TO 6 PM	5	6	11	5.5	12	13.2
6PM TO 9PM	0	12	12	4.0	0	0
	31	65	96			
AVG # VEHICLES ENTERING AND DEPARTING PER HOUR PER EVENT:				4.5		

## ANALYSIS OF VEHICULAR TRIP GENERATION BY DAY OR EVENT

revised February 2018

KUSALAKARI MONASTERY, 9698 SOUTH PRIEST ROAD, FRENCH CAMP, CA

**OCCASION:** UNSCHEDULED EVENT

**DAY OF WEEK:** VARIES

**FREQUENCY:** 4x PER YEAR

**MAX. NUMBER OF VEHICLES / OCCASION:** 60

**MAXIMUM # PERSONS ON SITE AT ANY ONE TIME:** 105

**AVERAGE # PERSONS PER VEHICLE:** 2.1

### SPECIAL NOTES

(1) The number of occupants per vehicle has been reduced from the County standard of 3 persons per vehicle which increases the number of vehicles entering and leaving the site. The purpose for doing this is to provide a 'worst case scenario'.

(2) An example of an event such as this would be an ordination ceremony for monks.

## AVERAGE TRIP GENERATION PER HOUR PER UNSCHEDULED EVENT

TIME PERIOD	VEHICLES ARRIVING	VEHICLES DEPARTING	TOTAL ENTER & DEPART	AVG. # VEHICLES PER HOUR	VEHICLES REMAINING ON SITE	PERSONS REMAINING ON SITE
6:30 AM TO 7AM	3	0	3	6	3	6.3
7 AM TO 9 AM	10	2	12	6	11	23.1
9 AM TO 11 AM	31	2	33	16.5	40	84
11 AM TO 1 PM	10	1	11	5.5	49	102.9
1 PM TO 2 PM	2	16	18	18	35	73.5
2 PM TO 4 PM	2	21	23	11.5	16	33.6
4 PM TO 6 PM	2	12	14	7	6	12.6
6 PM TO 9 PM	0	6	6	2.0	0	0
	60	60	120			
AVG # VEHICLES ENTERING AND DEPARTING PER HOUR PER EVENT:				8.3		



## ANALYSIS OF VEHICULAR TRIP GENERATION BY DAY OR EVENT

revised February 2018

KUSALAKARI MONASTERY, 9698 SOUTH PRIEST ROAD, FRENCH CAMP, CA

**OCCASION:** HOLIDAY      **DAY OF WEEK:** VARIES      **FREQUENCY:** 4x PER YEAR

**MAX. NUMBER OF VEHICLES / OCCASION:** 100

**MAXIMUM # PERSONS ON SITE AT ANY ONE TIME:** 180

**AVERAGE # PERSONS PER VEHICLE:** 2.5

### SPECIAL NOTES

(1) The number of occupants per vehicle has been reduced from the County standard of 3 persons per vehicle which increases the number of vehicles entering and leaving the site. The purpose for doing this is to provide a 'worst case scenario'.

(2) There are 6 Buddhist holidays each calendar year. Because some of these holidays fall on typical U.S. work days some of these holidays will not be celebrated. At this time the Applicant plans to celebrate 4 holidays each year.

## AVERAGE TRIP GENERATION PER HOUR PER HOLIDAY

TIME PERIOD	VEHICLES ARRIVING	VEHICLES DEPARTING	TOTAL ENTER & DEPART	AVG. # VEHICLES PER HOUR	VEHICLES REMAINING ON SITE	PERSONS REMAINING ON SITE
6:30 AM TO 7AM	5	0	5	10	5	12.5
7 AM TO 9 AM	30	3	33	16.5	32	80
9 AM TO 11 AM	38	4	42	21	66	165
11 AM TO 1 PM	10	6	16	8	70	175
1 PM TO 2 PM	2	18	20	20	54	135
2 PM TO 4 PM	7	24	31	15.5	37	92.5
4 PM TO 6 PM	8	19	27	13.5	26	65
6 PM TO 9 PM	0	26	26	8.7	0	0
	100	100	200			
AVG # VEHICLES ENTERING AND DEPARTING PER HOUR PER OCCASSION:				13.8		



KUSALAKARI RELIGIOUS CENTER

SUMMARY OF TRAFFIC DATA

DAY OF WEEK OR TYPE OF EVENT	VISITORS PER DAY	FREQUENCY	MAX PERSONS ON SITE AT ONE TIME	VEHICLES / DAY	AVG # CARS ARRIVING / HR.	AVG. TRIPS / HOUR
MON. THRU FRI.	15	240x /YR.	15	12	1	2
SATURDAYS	25	52x /YR.	20	18	2	2
SUNDAYS	60	42x /YR.	40	30	2	4
RETREAT OPENING AND CLOSING DAYS	66	MAX. 10x /YR.	65	60	3	6
UNSCHEDULED EVENT	126	4x / YR.	105	60	4	8
HOLIDAY	250	4x / YR.	180	100	7	14

HOURS OF OPERATION ARE 6:30 AM TO 9 PM 7 DAYS /WEEK (14.5 HOURS PER DAY)

'TRIPS' ARE DEFINED AS VEHICLES EITHER ENTERING OR LEAVING THE SITE

FARM EMPLOYEE HOUSING WOULD ALLOW FOR, AS OF RIGHT, 36 BEDS OR 12 HOUSEHOLD UNITS. EITHER OF THESE SCENARIOS COULD RESULT IN AN ADDITIONAL 120 TRIPS PER DAY, EVERY DAY.

THE GENERAL PLAN FOR THIS AREA ENVISIONS A ZONING DESIGNATION OF LOW DENSITY RESIDENTIAL WHICH ALLOWS FOR 2.1-6 HOUSES/ACRE. WITH SUBDIVISION APPROVAL IT IS POSSIBLE TO ERECT 21 RESIDENCES WHICH ADDS 200 TRIPS PER DAY

# Alex Georgevitch Consulting

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FAX/Voice: (541) 482-8934

September 29, 2019

Supplemental Data to October 29, 2017 Traffic Impact Analysis Review prepared by Alex Georgevitch Consulting. The data is provided to address the *San Joaquin County Technical Memorandum Guidelines* dated December 2012.

## **I. PROJECT DESCRIPTION AND STUDY AREA**

### ***A. Description of the proposed project.***

The development is located on the east side of South Priest Road approximately one mile south of downtown French Camp. The surrounding development includes rural and suburban residential and agriculture. The property is approximately 5-acres and currently has an existing single-family home and a large barn.

South Priest Road is a two-lane county road and is designated as a Local Commercial / Industrial road per the San Joaquin County 2035 General Plan Background Report. Existing traffic along this section of roadway is approximately 700 average daily traffic (ADT).

The proposed site plan envisions a new assembly hall (pagoda); a shed for maintenance and storage; a kitchen for food service, including restroom facilities; women's short-term housing for up to 30 persons; and men's short-term housing for up to 20 persons. Parking will be added that will allow for 53 spaces including accessible spaces along with 6 visitor spacing. Bicycle parking will also be provided.

### ***B. Definition of peak hour for project (time of day and day of week).***

The project has two distinct uses that will have different peak hours. The hours of operation are 7:00 AM to 9:00 PM 7-days per week.

The proposed facility is similar to a typical church facility. It will provide religious instruction, counseling, a place for people to come and pray or meditate and provides meditation training as this is the backbone of the Buddha's teaching.

A significant difference between this facility and a church (in terms of traffic impacts) is that a church typically has regular services on weekends and weekdays whereas a Burmese Monastery does not include such regular services. Instead, worshippers come at a time that meets their own schedule. Upon their arrival they will usually meet with the resident Monk and will then pray or meditate for an hour or two and then depart. This distinguishes this project from other Churches, where all worshippers are expected to arrive and depart within the same 15-30-minute time period.

Another difference is that this facility will, from time to time, offer residential intensive meditation retreats where participants are required to stay on site for the duration of the Retreat. Participants commit to not leaving the facility during the Retreat and if they do, they will not be permitted to return during that Retreat. These sessions of intensive religious instruction are mostly held in 3 or 10 day sessions.

Everything needed by persons receiving this training including meals and housing are provided by the facility and thus there is no need for anyone to leave the site during these sessions. The housing is only for use by those taking the 3- or 10-day training.

Based on the previous analysis provided the Peak Hour for the Meditation Retreats will occur on Wednesday's during the PM peak and the church use will occur Sunday's during the AM peak. The retreat can handle 47 participants and if 75% (35 participants) come from noon to 4:30 PM then no more than 7 trips will occur during the PM peak hour. During church use on Sunday no more than 40 attendees are expected throughout the day. No more than 6 trips will occur during the AM peak hour on Sunday as well.

***C. Define/list locations of intersections and roadways to be studied. Proposed project access must be considered as a study intersection.***

The critical impacts to the transportation system are projected to occur on Wednesday's during the PM peak hour and are not anticipated to have more than 7 trips added to the adjacent roadway but 10 trips will be used for simplicity. If the trips are distributed evenly for both northbound and southbound with all trips being inbound, then there would be 5 trips added in each direction along South Priest Road. No other locations are proposed to be studied as South Priest Road is a tee intersection with East Watters Road to the south and French Camp Road to the north, both are stop controlled and the project only adds approximately 5 trips at each location during the peak hour.

***D. List locations where counts were taken or acquired from Public Works.***

Traffic volumes are available from the County's GIS website that shows 334 average daily trips (ADT) in the northbound direction between Amy Court and East Wyman Road dated 5-31-2015. Several other counts were reviewed that are available from the County's GIS website. Further, traffic counts were taken in August of 2017 along the frontage of the property that included AM and PM peak hours on a weekday and AM and PM peak hour on a Sunday. The counts are attached.

## **II. EXISTING CONDITIONS (in the vicinity of the project)**

***A. Levels of Service (LOS) on significant streets (local and regional, if appropriate) within the study area.***

A Synchro 10 analysis of the project driveway was conducted and shows an intersection level of service (LOS) of A with a southbound control delay of 0.9 seconds. The output is included at the end of this supplemental data review.

***B. Traffic volumes (ADT) within the study area.***

South Priest Road along the frontage of the development carries approximately 700 ADT during the weekday. Existing peak hour volumes during weekdays is 34 in the AM and 44 in the PM and on Sunday the AM is 30 and PM is 42.

***C. A. M. and P. M. peak hour level of service at critical intersections.***

The PM peak hour governs and a Synchro 10 analysis shows the LOS to be A and the project intersection operates at LOS A with a control delay of 0.9 seconds. No AM peak is calculated as it will operate better than the PM peak which is currently at LOS A.

***D. Approved and significant pending projects (to be supplied by County Staff or other appropriate jurisdictions).***



The project analysis does not have any impacts of significance and therefore no mitigation is proposed for the project. A review of the San Joaquin Council of Governments Regional Transportation Plan does not show any proposed projects near the development as well.

### **III. PROJECT IMPACT ANALYSIS**

#### ***A. Average daily and/or A.M. and P.M. peak hour project trip generation.***

The development is anticipated to generate 7 PM peak hour trips maximum during mid-week and 6 AM peak hour trips on Sunday. The site proposes 53 parking spaces primarily for retreat use. Religious services are not traditional and operate throughout the day from 7:00 AM to 9:00 PM with meditation and worship lasting for an hour or two.

#### ***B. Confirm Intersection and Roadway LOS for the Existing plus Approved Projects (if any) plus Project scenario are within the County's acceptable range.***

South Priest Road currently operates at LOS A along the frontage of the development. No analysis was performed at the southern or northern tee intersections as it is only anticipated to add 5 peak hour trips to each location.

### **IV. MITIGATION MEASURES (only if required)**

#### ***A. Detailed explanation of the LOS that exceeds the County's LOS standards.***

No locations exceed County LOS and the site generates far less than the 50 trip per hour threshold to be considered significant. No further analysis is required.

#### ***B. Notation detailing the requirement of the need for a full TIS, per these guidelines.***

The site generates far less than 50 trips per hour and therefore no traffic impact study is required per these guidelines.

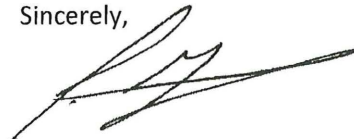
### **V. ENGINEER'S STAMP**

#### ***A. The report shall contain a Registered Engineer's Signature Stamp.***

The proposed development generates 7 PM Peak hour and 6 AM Peak hour trips on a daily basis. This volume is very low and would not warrant an analysis at any controlled or uncontrolled intersection near the project following San Joaquin County requirements of 50 peak hour trips as a threshold for analysis. Critical movements entering and exiting the site are very low and do not warrant turn lane analysis.

Based on the low vehicle volumes generated in the peak hours and the proximity to both Interstate 5 and Highway 99, I do not recommend requiring a traffic impact analysis for this project.

Sincerely,






Alex Georgevitch, P.E.



Intersection

Int Delay, s/veh 0.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	0	36	5	5	34
Future Vol, veh/h	0	0	36	5	5	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	39	5	5	37

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	89	42	0
Stage 1	42	-	-
Stage 2	47	-	-
Critical Hdwy	6.42	6.22	-
Critical Hdwy Stg 1	5.42	-	-
Critical Hdwy Stg 2	5.42	-	-
Follow-up Hdwy	3.518	3.318	-
Pot Cap-1 Maneuver	912	1029	-
Stage 1	980	-	-
Stage 2	975	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	909	1029	-
Mov Cap-2 Maneuver	909	-	-
Stage 1	980	-	-
Stage 2	972	-	-

Approach	WB	NB	SB
HCM Control Delay, s	0	0	0.9
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	1564	-
HCM Lane V/C Ratio	-	-	0.003	-
HCM Control Delay (s)	-	-	0	7.3
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	-

<b>FRENCH CAMP TRAFFIC COUNTS; South Priest Road</b>
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Total number of vehicles passing by facility traveling both North and South along S. Priest Road
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DATE: AUGUST 11, 2017
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DAY OF WEEK:	FRIDAY
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START TIME		END TIME	NUMBER OF VEHICLES
7:00 AM	to	7:30 AM	11
7:30 AM	to	8:00 AM	12
8:00 AM	to	8:30 AM	16
8:30 AM	to	9:00 AM	18
TOTAL FOR 2 HOUR PERIOD:			57

START TIME		END TIME	NUMBER OF VEHICLES
4:00 PM	to	4:30	21
4:30 AM	to	5:00	15
5:00 PM	to	5:30	20
5:30 AM	to	6:00	24
TOTAL FOR 2 HOUR PERIOD:			80



**FRENCH CAMP TRAFFIC COUNTS; South Priest Road**

Total number of vehicles passing by facility traveling both North  
and South along S. Priest Road

DATE: AUGUST 20, 2017

DAY OF WEEK:

SUNDAY

START TIME		END TIME	NUMBER OF VEHICLES
8:00 AM	to	8:30 AM	21
8:30 AM	to	9:00 AM	9
9:00 AM	to	9:30 AM	14
9:30 AM	to	10:00 AM	16
TOTAL FOR 2 HOUR PERIOD:			60

START TIME		END TIME	NUMBER OF VEHICLES
4:00 PM	to	4:30	28
4:30 AM	to	5:00	14
5:00 PM	to	5:30	18
5:30 AM	to	6:00	13
TOTAL FOR 2 HOUR PERIOD:			73