



LAND USE COMMISSION  
STATE OF HAWAII

2013 MAY 17 P 2: 21

**Testimony of**  
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*Wilson Okamoto Corporation*

Ex. No. 27



**STUDY METHODOLOGY  
&  
EXISTING ROADWAYS, TRAFFIC PATTERNS**

- **Pi`ilani Highway is a four-lane, two-way north-south roadway that is the primary access through Kihei to Central Maui.**
- **Kihei HS will be on the eastern side of Pi`ilani Highway with vehicular access at the unsignaled intersection of Kulanihako`i Street.**
- **Other connectors between Pi`ilani Highway and S. Kihei Road are to the North, Kaonoulu Street; and to the south E. Waipuilani Road and Pi`ikea Avenue.**
- **Traffic impacts of Kihei HS in 2015 will be minimal on study intersections with LOS projected to be similar to existing conditions. 2025 estimates are hypothetical, assuming maximum enrollment. TIAR update following completion of Phase I with closer enrollment projections will provide clearer assessment.**

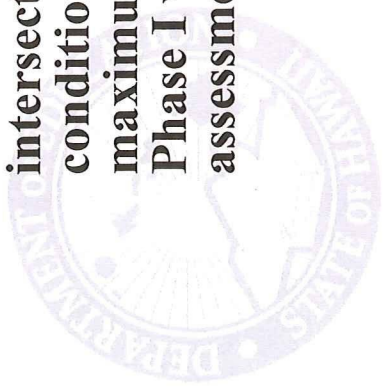




FIGURE 1

KIHEI HIGH SCHOOL

LOCATION MAP AND VICINITY MAP



**WILSON OKAMOTO CORPORATION**  
ENGINEERS • PLANNERS





# CRITICAL INTERSECTIONS AND IMPACTS

**Table 4-8 PROJECTED YEAR 2015 (WITHOUT AND WITH PROJECT) AND YEAR 2025 (WITH PROJECT) LOS TRAFFIC OPERATING CONDITIONS**

Intersection	Critical Traffic Movement	AM			PM		
		2015 w/o	2015 with	2025 with	2015 w/o	2015 with	2025 with
Pi'ilani Highway/ Ka'ono'ulu Street	Eastbound	C	C	D	D	D	E
	RT	C	C	C	C	C	C
Pi'ilani Highway/ Kūlanihāko'i Street*	Northbound	C	C	C	C	C	D
	Eastbound	D	D	D	D	D	D
	TH	-	-	-	-	-	-
	RT	C	D	D	C	D	D
Westbound	LT-TH	-	D	E	-	D	E
	RT	-	D	D	-	D	D
	LT	C	D	E	C	D	E
	TH	-	B	C	-	A	A
Southbound	LT	-	D	E	-	D	E
	TH	-	B	C	-	B	A
Eastbound	RT	B	B	C	B	B	B
Pi'ilani Highway/ East Waipu'ilani Road	Eastbound	D	D	E	D	D	E
	RT	D	D	D	D	D	D
Northbound	LT	D	D	E	D	D	E
	TH	C	C	C	C	C	C
Westbound	LT	C	C	C	C	C	C
Southbound	LT	B	B	B	A	B	B

\*Traffic signal system installed in conjunction with the proposed high school



## **RECOMMENDED TRAFFIC IMPROVEMENTS**

- **Construct access road to Kihei HS from Pi`ilani Highway at intersection of Kulanihako`i Street to create a four way intersection.**
- **Construct northbound deceleration and acceleration lanes along Pi`ilani Highway to facilitate entering and exiting traffic to Kihei HS.**
- **Install traffic signal system at Kulanihako`i and Pi`ilani intersection to accommodate vehicular and pedestrian movements.**

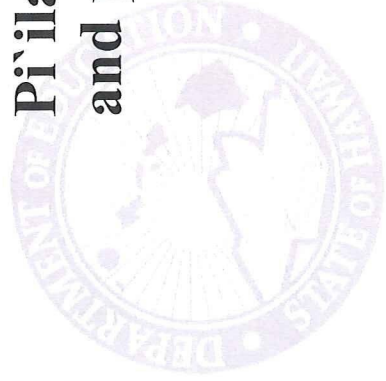




Figure 2-1  
Conceptual Site Plan

Ex. No. 27



## TIAR CONCLUSION

- Phase I of Kihei HS is not expected to have a significant impact on traffic operations at 5 study intersections in 2015 assuming recommended traffic improvements have been made.
- Projected LOS traffic operating conditions at 5 study intersections are expected to remain unchanged or deteriorate slightly due to Kihei HS in 2015. LOS conditions will change from 2015 to 2025 due to other projects and projected enrollment increases.



## **GRADE SEPARATION CONDITION**

- **Signalized intersection will accommodate both pedestrian and vehicular traffic movements safely.**
- **Considerations: Safety, system-wide coordination of P`ilani Highway corridor, economics, physical conditions.**
- **AASHTO Green book Policy on Geometric Design of Highways and Streets is a guideline and not an absolute standard. AASHTO guidance does not mandate as to when a grade-separated pedestrian crossing should be required.**

