

**Parker School Use Permit Amendment – Summary of Traffic Impact Analysis Report** by Bob Hunter, 885-4194, bob@webpatent.com (published on 10/21/09, revised on 10/22/09)

**Existing Conditions:**

Characterized by traffic counts on Dec 4 through 5, 2008, Feb 3 through 6, 2009

AM peak hour levels of service: Lindsey Rd at Kawaihae Rd = F (unacceptable); Parker School Driveway at Kawaihae Rd = C (satisfactory)

PM peak hour levels of service: Lindsey Rd at Kawaihae Rd = E (undesirable); Parker School Driveway at Kawaihae Rd = D (desirable minimum)

**Assumptions about 2030:**

Project traffic added to existing traffic plus background traffic growth of 2 percent per year. “Traffic generated by the gymnasium, will occur during the off-peak periods of traffic, and is not analyzed by this traffic impact analysis. . . . Traffic, generated by the WCE [Waimea Community Education], will occur during the off-peak periods of traffic, and is not analyzed by this traffic impact analysis.”

State Kawaihae Rd Bypass will have been completed.

State Waimea Bypass will not have been completed.

County Lalamilo Connector Rd (Mamalaho Hwy-Kawaihae Rd Connector) will have been completed.

Parker Ranch Waimea Town Center Connector Rd, Lindsey Rd Extension, Koamoloa Rd and Pukalani Rd Extension will have been completed.

**Future Conditions without project and no improvements:**

AM peak hour levels of service: Lindsey Rd at Kawaihae Rd = F; Parker School Driveway at Kawaihae Rd = F

PM peak hour levels of service: Lindsey Rd at Kawaihae Rd = F; Parker School Driveway at Kawaihae Rd = E

**Future Conditions with project and no improvements:**

AM peak hour levels of service: Lindsey Rd at Kawaihae Rd = F; Parker School Driveway at Kawaihae Rd = F

PM peak hour levels of service: Lindsey Rd at Kawaihae Rd = F; Parker School Driveway at Kawaihae Rd = E or F

**Recommended Traffic Improvements (assumes above new roads, too):**

Northbound Lindsey Rd and eastbound Kawaihae Rd realigned to provide two-way left-turn lane on southbound Lindsey Rd, between Kawaihae Rd and Parker School Driveway

Left turn green arrow followed by a left turn green ball on eastbound Mamalahoa Hwy at Lindsey Rd

Restripe southbound approach of Lindsey Rd at Mamalahoa Hwy to provide a shared through/right turn lane and dual exclusive left-turn lanes. Lalamilo Connector Rd

Signals provide exclusive left turn phases, followed by through phases on all approaches at Lindsey Rd at Mamalahoa Hwy.

**Future Conditions with project and above traffic improvements and new roads:**

AM peak hour levels of service: Lindsey Rd at Kawaihae Rd = A average (actually E on South Bound Left and South Bound Right); Parker School Driveway at Kawaihae Rd = A average (actually C at West Bound Left and West Bound Right)

PM peak hour levels of service: Lindsey Rd at Kawaihae Rd = A average (actually C South Bound Left and South Bound Right); Parker School Driveway at Kawaihae Rd = A average (actually C at West Bound Left and West Bound Right)