

# ROUNABOUT AT PI'IKEA AVENUE AND LĪLOA DRIVE



## COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS WARREN S. UNEMORI ENGINEERING, INC. PBR HAWAII & ASSOCIATES, INC.

The Pi'ikea Avenue/Līloa Drive roundabout, the result of a collaborative effort between the County of Maui, the design-consulting team, and community organizations, replaced a multi-lane, four-way stop plagued by congestion, reckless driving, and dangerous pedestrian conditions.

The roundabout provides for greater vehicular and pedestrian safety. Vehicular accidents are greatly reduced due to a reduction in approach speeds and a reduction of vehicular conflict points, eliminating the potential for right-angle and head on collisions. Pedestrian safety is improved due to reduced vehicular lanes (from five to two) and the addition of pedestrian median refuges.

From an aesthetic standpoint, the roundabout provides a dramatic entry statement as the gateway to "Downtown Kihei." Vivid landscaping in the center island and between traffic lanes and sidewalks provides visual interest for drivers, an attractive environment for walkers, and deters jaywalking.

The design facilitates and encourages Kihei residents to walk to Kihei Elementary School, shopping, the regional park, and the aquatic center. The design also reduces the number of traffic lanes in each direction, significantly reducing the amount of paved hard surfaces. Less pavement provided opportunities to incorporate landscaped center splitter islands along all approaches, which contribute to the reduction of vehicle speeds without signs or electrically powered devices.

In bestowing this year's Transportation Award, the APA Hawai'i Chapter jury recognizes the Pi'ikea Avenue/Līloa Drive roundabout for the many "firsts" achieved in Hawai'i:

- First full-sized, pedestrian-friendly roundabout in Maui County capable of accommodating large tractor-trailers.
- First roundabout to use wide, mounded, landscaped medians and deflective "S"-curves to achieve progressive speed reduction.
- First roundabout to utilize Rectangular Rapid-Flashing Beacons; specialized warning lights which increase the rate of vehicles yielding to pedestrians within crosswalks.

This project is an excellent example for future full-sized, modern roundabouts being considered for other intersections throughout the State. The Kihei community has embraced the roundabout due to its improved vehicular and pedestrian safety and strong linkages to nearby destinations.

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