

1. Q. We kindly request HECO identify transmission line crossing points for the 138 kV transmission system.
 - A. All transmission line crossing points are to be considered while planning the transmission system. Following is a list of known crossing points.
 - a. Halawa-Makalapa and Waiau-Koolau #1 (near Halawa Substation)
 - b. Halawa-Makalapa and Waiau-Koolau #2 (near Halawa Substation)
 - c. Kahe-Halawa #1 and Waiau-Wahiawa (above Pearl City area)
 - d. Kahe-Halawa #2 and Waiau-Wahiawa (above Pearl City area)
 - e. Waiau-Koolau #2 and Waiau-Wahiawa (near Waiau Power Plant)

The following line crossings are partially protected by an "apron", which is designed to prevent lines from coming into contact upon conductor failure at their supported ends. This factor should be considered prior to initiating projects related to eliminating these line crossings.

- a. Halawa-Iwilei and Waiau-Koolau #1 (Near Halawa Substation)
- b. Halawa-Iwilei and Waiau-Koolau #2 (Near Halawa Substation)
- c. Halawa-School and Waiau-Koolau #1 (Near Halawa Substation)
- d. Halawa-School and Waiau-Koolau #2 (Near Halawa Substation)