



Honolulu Low Impact Development (LID) Project
Department of Facility Maintenance



OWNER: City and County of Honolulu
DESIGNER: Austin, Tsutsumi and Associates, Inc.
FACILITY: Maili Beach Park
ADDRESS: 87-461 Farrington Highway, Waianae, Hawaii 96792
PROJECT TITLE: Maili Beach Park Parking Improvements, Phase II
TMK: 8-7-015:001,003-008 and 8-7-028:021-023

REFERENCES:

1. City and County of Honolulu Stormwater Best Management Practice Manual, New and Redevelopment, July 2014, TC-10 Infiltration Trench.
2. NPDES Permit for City and County of Honolulu, MS4, Small MS4, Industrial Facilities; HI S000002; effective February 16, 2015; Part D.1.e.(1)(iii) which requires management practices prioritized to favor infiltration, evapotranspiration, or harvesting/reuse follow by treat and release practices.

PROJECT SUMMARY:

The design was done prior to the City's Stormwater BMP Manual for New and Redevelopment dated July 2014 and the new MS4 permit. However, the project included source control by way of infiltration trenches, which performs well with high removal efficiencies of fine sediment, metals, oil and grease, and organics. The City and County of Honolulu performed parking improvements on Maili Beach Park's southernmost parking lot, which included repaving of the parking lot's surface and installation of 290 lineal feet of gravel infiltration trench. The parking lot's surface was sloped towards Farrington Highway so storm water runoff would flow into the infiltration trench, which is twenty inches (20") deep, lined with filter fabric and filled with one inch (1") washed gravel. Runoff is stored in the void space between the gravel and infiltrates through the trench bottom and the sides and into the surrounding soil matrix.

