

Capstone Design Project: Beachfront Highway Overtopping Solution at Hilo Bay

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Abstract

In Hilo harbor, the area seaward of Bayfront Highway has experienced significant erosion. Every year, during high surf events, the highway has to be shut down due to flooding from overtopping. This not only inconveniences the highly trafficked area but is a costly cleanup effort from the debris. The design requirements call for reduction of overtopping of the highway to once in five years. The possible types of structure for this kind of problem are groins, breakwaters or T-groins, which must be designed to withstand a 50-year wave event. One type has been selected from the conceptual designs. The preliminary design includes the structure dimensions, cost calculations and permitting study..

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