



**US Army Corps
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Corps' Kaunalapau Harbor Breakwater Project receives National Honors

By Honolulu District Public Affairs

(FORT SHAFTER, HI -NR-39-08) The U.S. Army Corps of Engineers' Kaunalapau Harbor Breakwater Project (Lanai, Hawaii), recently received two prestigious national honors.

The American Society of Civil Engineers (ASCE) Hawaii Section Executive Committee announced that the Kaunalapau Project won the Outstanding Civil Engineer Award (OCEA) project of the year for 2008.

Honolulu District (HED) submitted the project to ASCE in August on behalf of all project stakeholders, including the Hawaii Department of Transportation, Harbors Division, Lanai community and the contractors involved in the project.

“Through a collaborative team effort with our partners, the various technical challenges on this project were successfully solved,” said Todd Barnes, HED chief of Engineering and Construction.”

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“The Outstanding Civil Engineer Award is sponsored by the ASCE for significant contributions to the well-being of people and their communities, resourcefulness in planning and design challenges, and innovations in materials and techniques,” Barnes said.

In addition to the honor of winning the ASCE Outstanding Civil Engineer Award for 2008, the Kaumalapau Project also won the Pre-Cast / Pre-Stressed Concrete Institute (PCI) 2008 Design Award for Custom Solutions.

Grace Pacific Rocky Mountain (GPRM) Prestress, LLC, was a subcontractor to Traylor Brothers, Inc. (Pacific) and they pre-cast the concrete Core-Locs used in the project. GPRM submitted the project for consideration and the awards were presented at the PCI National Convention in Orlando, Fla. Oct. 5-7, 2008.

The units were fabricated on Oahu and shipped by barge to Lanai. The Core-Loc units were then strategically and specifically placed in 55 to 65 feet of water. In addition, a 300-foot section of concrete was placed atop the breakwater’s crest.

The breakwater was constructed using 819, 35-ton, Core-Loc units and underlayment rock.

The Core-Loc units, designed by the Corps’ Engineering Research and Development Center in Vicksburg, Miss., are currently the largest in the world.

The Kaumalapau Harbor Project was successfully completed in the summer of 2007. The Corps celebrated the project dedication with congressional, state, and county officials on Lanai on July 7, 2007.

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The ceremony officially opened the \$28.2 million project which modified the Kaumalapau breakwater, which was originally built in the 1920s.

The new breakwater was constructed to reduce wave action in the harbor and to increase harbor safety and usability.

Kaumalapau, Lanai's only commercial harbor, is essential to the welfare of the island's residents and visitors.