

**O & M INSPECTION REPORT
FOR NAVIGATION AND SHORE PROTECTION PROJECTS**

1. Project Name: Pohoiki Bay Navigational Improvements

2. Date of Inspection: May 1, 2001

3. Inspection Personnel:

<u>Name</u>	<u>Agency/Office</u>	<u>Telephone No.</u>
a. <u>Dan Meyers</u>	<u>COE</u>	<u>438-8875</u>

4. Discussion:

The inspected portion of the project consists of 90 linear feet (LF) of concrete armor unit breakwater. There has been minor additional dislodgment or loss of armor stones in the center void between the rib-cap ties and ribs.



Project Sign

The following are reference photos and deficiencies noted during the inspection:



a. Sta. 0+28, OS, Overview of ribcap / dolos.



b. Sta. 0+30, HS, Overview of ribcap / dolos.



c. Sta. 0+25, HS, dolo # $\frac{11-28}{78}$, fluke shank break (old).



d. Sta. 0+35, HS, dolo # $\frac{11-30}{78}$, fluke tip break (old).



- e. Sta. 0+40, HS, Typical of washed-up cinders from oceanside.
- f. Sta. 0+60 to head, possible loss and movement of underlayer below the ribcap. Continue to monitor.
- g. Sta. 0+75, cracks in both longitudinal ribcap beams.
- h. Sta. 0+90, at 0 degrees off center and offset 20' from the breakwater head, rocking dolo, no change noted during this inspection.

5. Conclusion:

The breakwater structure remains in GOOD condition.

Signed: _____
Dan Meyers, CEPOH-EC-T

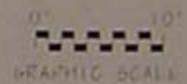
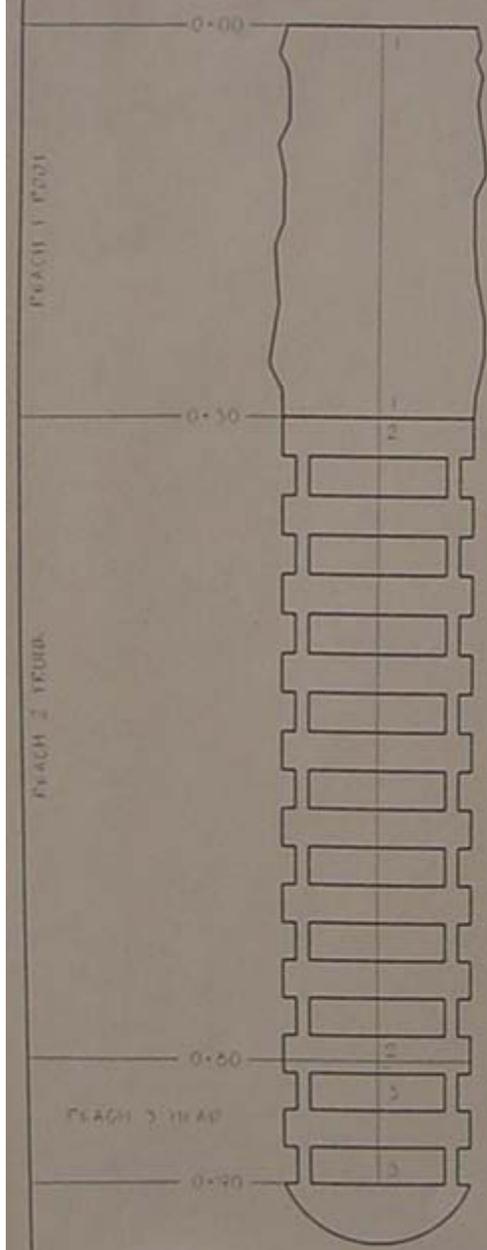
Signed: _____
Jim Pennaz P.E., Ch, CEPOH-EC-T

Attached:

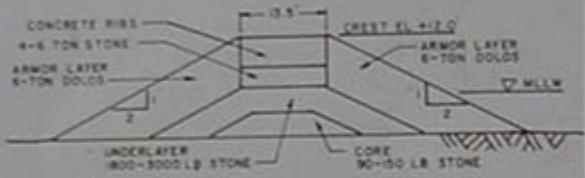
BW Reach Plan

Project Index Map

POHOIKI BAY - BREAKWATER



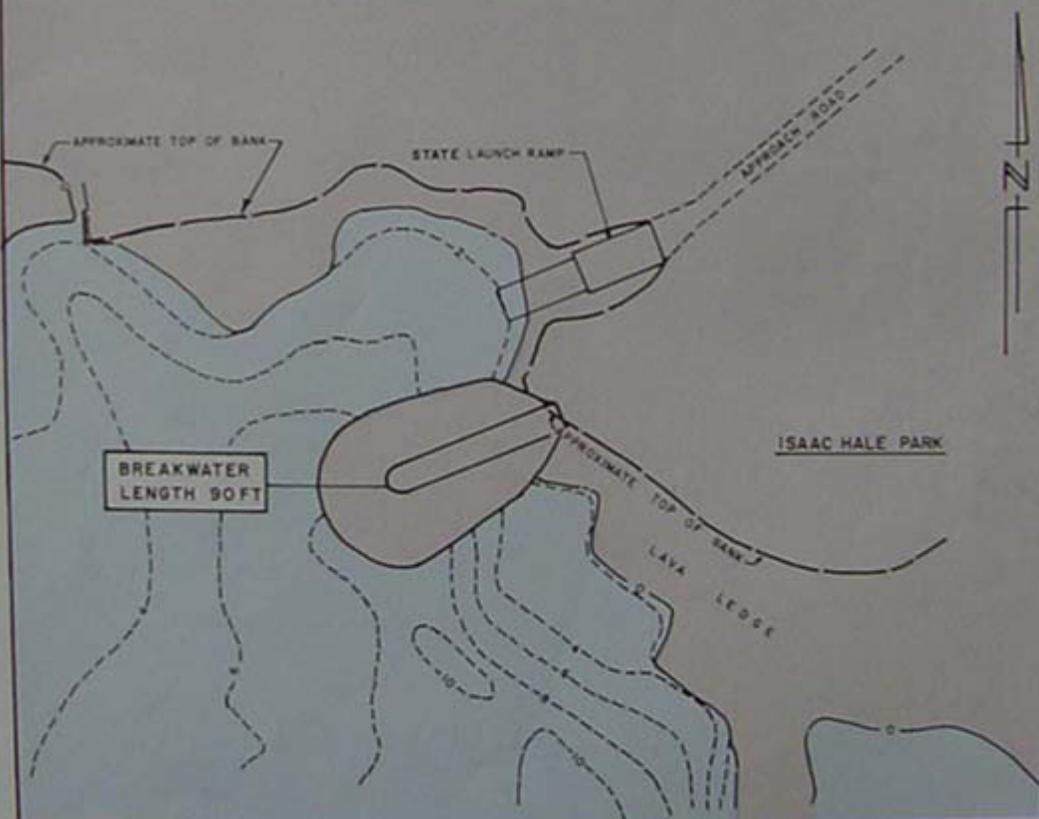
FUNCTION	REACH 1	REACH 2	REACH 3
HARBOR AREA			
HARBOR NAVIGATION			
HARBOR USE			
NAVIGATION CHANNEL			
ENTRANCE USE			
CHANNEL			
DETRIMENT MANAGEMENT			
EDD SIGNAL			
FLOOD SIGNAL			
HARBOR SIGNAL			
SHOULDER IMPACT			
STRUCTURE PROTECTION			
LOW EROSION			
NEARBY STRUCTURES			
TURBIDITY PROTECTION			
OTHER			



TYPICAL BREAKWATER SECTION



LOCATION MAP
ISLAND OF HAWAII
SCALE IN FEET



NAVIGATION IMPROVEMENT
POHOIKI BAY
ISLAND OF HAWAII, HAWAII
30 SEPTEMBER 1978
SCALE IN FEET
U. S. ARMY
ENGINEER DIVISION, PACIFIC OCEAN
CORPS OF ENGINEERS

POHOIKI BAY NAVIGATION IMPROVEMENT, HAWAII, HAWAII

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1989

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized in June 1978 under Section 107 of the River and Harbor Act of 1960, as amended. Provides for a 90-foot long breakwater.

PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in June 1979.

Work Remaining: None.

COST OF CONSTRUCTION:

<u>Completed Works:</u>	<u>New Work</u>
United States Funds	<u>\$383,276</u>
Total Costs	\$383,276

RANGE OF TIDES: The range of tide between mean lower low water and mean higher high water is 2.5 feet.