

O & M INSPECTION REPORT
FOR NAVIGATION AND SHORE PROTECTION PROJECTS

1. PROJECT NAME: Barbers Pt. DDH
2. DATE OF INSPECTION: July 21, 2004
3. INSPECTION PERSONNEL:

Jessica Hays COE 438-1680

4. DISCUSSION:

The project consists of 2 ea. Wave Absorbers the Entrance Channel Wave Absorber begins at Sta. 1+12 and ends at Sta. 38+00. The Barge Basin Wave Absorber begins at Sta. 0+00 and ends at Sta. 9+00. A cursory inspection was done in 2004 while at the location for ROV field testing. Due to time constraints, the Barge Basin Wave Absorber was not inspected; however, it appears to be in good, functional condition.

ENTRANCE CHANNEL WAVE ABSORBER : Sta. 1+00 - Sta. 38+00:

Reference Locations:

Light Pole Wave Absorber
Number Station No.

- 1 7+49
- 2 8+99
- 3 10+09
- 4 11+71
- 5 13+24
- 6 14+71
- 7 16+20
- 8 17+73
- 9 19+27
- 10 20+59
- 11 22+26
- 12 23+75
- 13 25+34
- 14 26+82
- 15 28+30
- 16 29+80
- 17 32+59
- 18 34+08
- 19 35+37



Sta. 1+12, Beginning of the Wave Absorber's TieBack. (2002 Photo)



Sta. 1+12, Beginning of the Wave Absorber's TieBack. (2002 Photo)



Sta. 3+00, Overview of the Ko Olina Marina's Channel. (2002 Photo)



Sta 6+00, Overview of tieback across Ko Olina Marina's Channel



Sta. 6+00, Overview of the wave absorber. Remove halekoa trees on OS of access road.

Note: Rock changes to limestone at Sta. 8+99



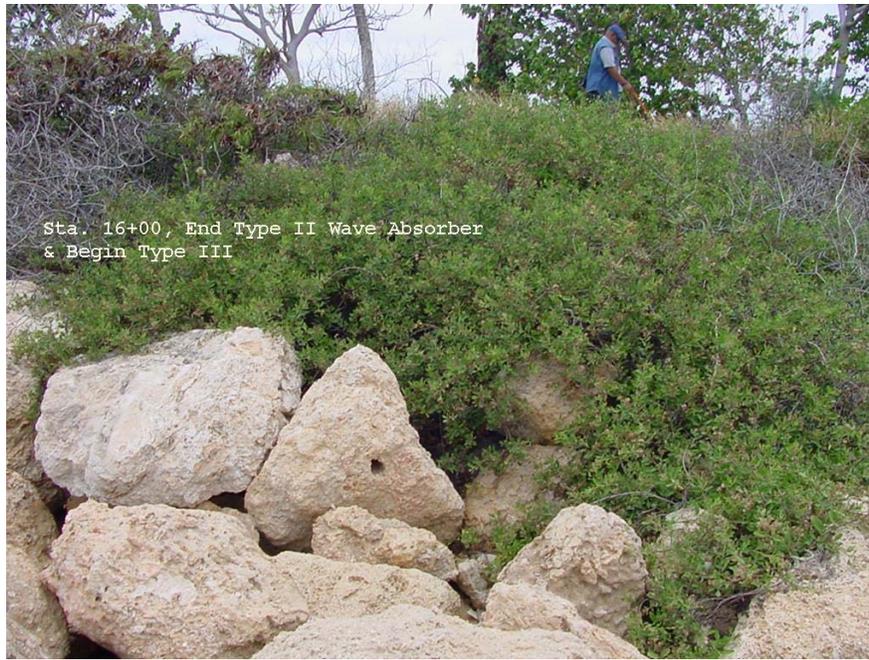
Sta. 13+24, 1 ea. Split armor stone. (2002 Photo)



Sta. 16+00, Poor quality coral limestone (very weathered). (2002 Photo)



Sta. 16+00, Some bridging of stones and weathering of limestone.



Sta. 16+00, End Type II wave absorber and begin Type III wave absorber. (2002 Photo)



Sta. 16+00, Halekoa trees need to be removed.



Sta. 19+27, Overview of the wave absorber. Increased vegetation since 2002, monitor.



Sta. 20+26, Overview of the wave absorber. (2002 photo)

BARGE BASIN WAVE ABSORBER : Sta. 0+00 to Sta. 9+00



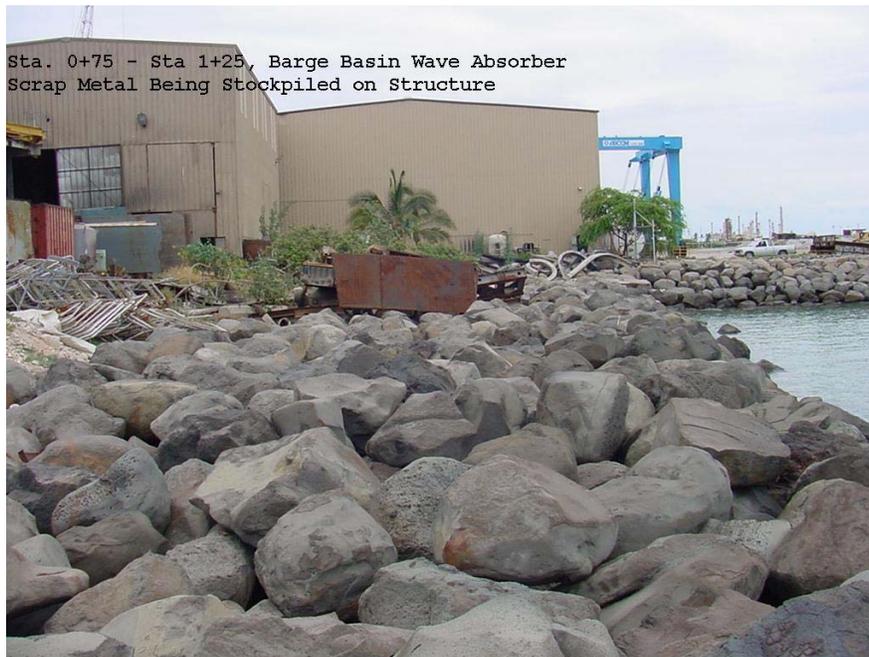
Overview of the Barge Basin Wave Absorber. (2004 Photo)



Sta. 0+00 - Sta. 4+00, 2-3 ea. Armor stones have "rolled" down the sideslope, no obvious voids. No problem noted. Scrap material being stored on wave absorber, have the owner at Merisco, Fred Anawatri, 682-1333 remove it. (2002 Photo)



Non-Federal revetment / wave absorber connecting to COE structure. (2002 Photo)



Sta. 0+75 to Sta. 1+25, Overview of the wave absorber. (2002 Photo)



Sta. 3+00, Overview of armor stones, placement is random but good. (2002 Photo)



Sta. 6+00, Located adjacent the entrance channel. Sta. 9+00 is adjacent the floating drydock. (2002 Photo)

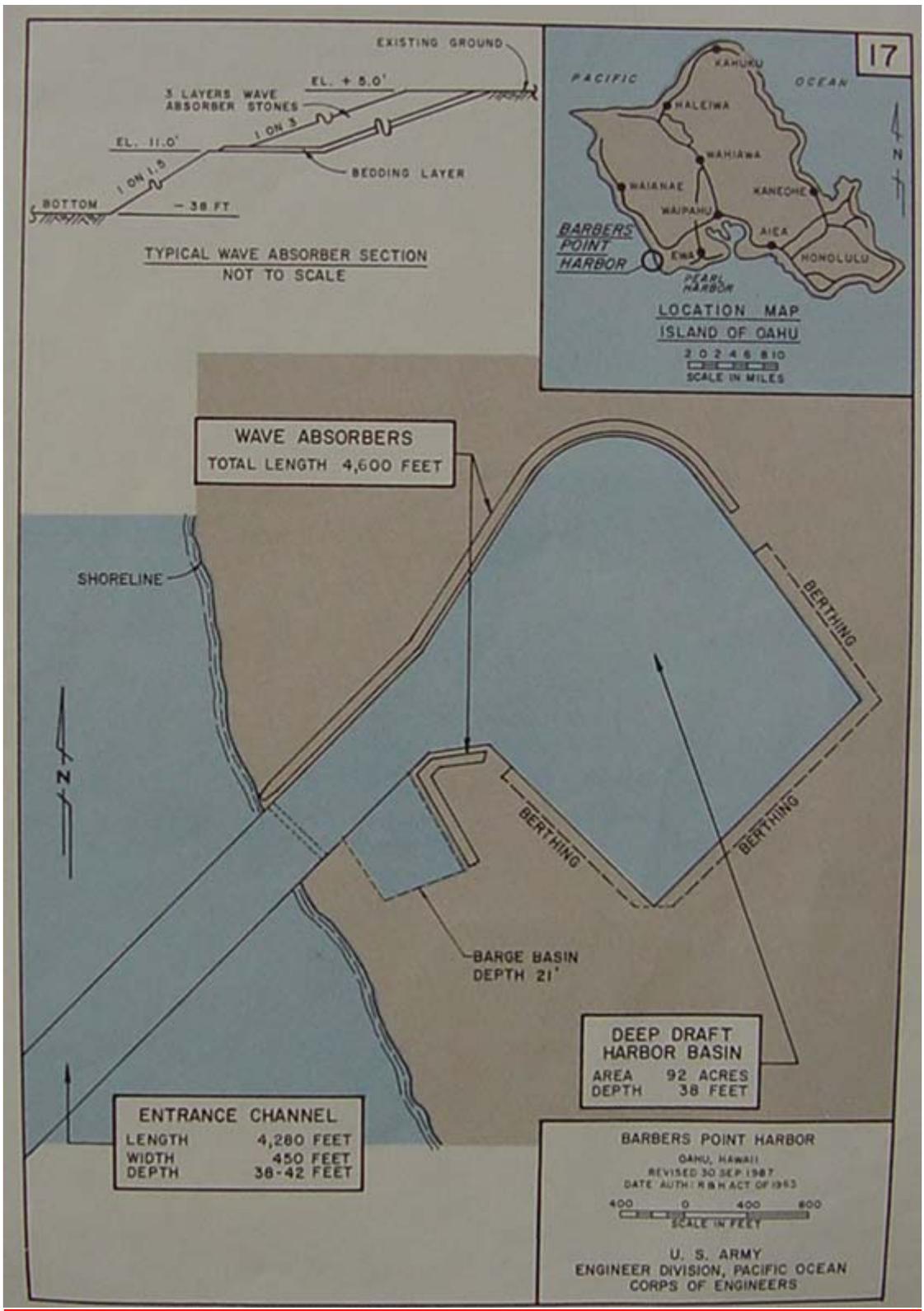
5. Conclusion:

Both wave absorber structure are in GOOD condition. Minimal changes since last photos in 2002 were taken. Remove halekoa trees from entrance channel wave absorber.

Signed: _____
Jessica Hays, CEPOH-EC-T

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

Attached:
BW Reach Plan
Project Index Map



BARBERS POINT HARBOR, OAHU, HAWAII

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1993

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized by the River and Harbor Act of 27 October 1965. Provides for a Deep-Draft Harbor comprising an offshore entrance channel 4,280 feet long, 450 feet wide, and 38 to 42 feet deep; an inshore harbor basin with an area of about 92 acres and 38 feet deep; wave absorber structures of 4,600 linear feet; and a small boat harbor comprising of a main access channel 1,200 feet long; 80 feet (minimum) wide and 12 feet deep, and wave absorber structures of 300 linear feet. The small boat harbor has been deleted at the request of the State.

PROGRESS OF WORK

Completed and Under Maintenance: A Regional Visitor Center at Fort DeRussy was completed and opened to the public in June 1983. Cost of construction included construction of the shell (\$708,481 which included \$24,118 in military funds for repair of the roof) and exhibit production (\$185,637). A construction contract awarded in March 1982 was completed in August 1985. A harbor beautification and revetment contract awarded in May 1989 was completed in July 1990 for \$589,000.

Work Remaining: Annual operations and maintenance of the Regional Visitor Center.

COST OF CONSTRUCTION:

	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
Completed Works:			
United States Funds			
Corps of Engineers	\$53,521,100	\$563,548	\$54,084,648
Coast Guard	344,011	0	344,011
Contributed Funds			
Required	2,415,314	0	2,415,314
Other	<u>3,013,680</u>	<u>0</u>	<u>3,013,680</u>
Total Costs	\$58,950,094	\$563,548	\$59,513,642

RANGE OF TIDES: The range of tide between mean lower low water and mean higher high water is 1.8 feet. The extreme range is 2.3 feet.