

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

1. Project Name: Aunu'u SBH
2. Date of Inspection: April 12, 2002
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>
b.	<u>Joel Hendrix</u>	<u>COE</u>	<u>438-1275</u>
c.	<u>Rick Oleniacz</u>	<u>COE</u>	<u>438-1275</u>
d.	<u>Andy Scanlin</u>	<u>Port Administration</u>	<u>633-4141</u>

4. Discussion:

**South Revetted Mole:**

Station	Reach	Comments
0+00 to 0+74	#1	Root
0+75 to 2+20	#2	Trunk
2+21 to 2+27	#2	Trunk/Transistion

**Stub Breakwater:**

2+28 to 3+10	#3	Head
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**Wave Absorber:**

0+00 to 2+00		0+00 at Tie Back 0+50 at Boat Ramp Corner 2+00 at North Rev Mole
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**North Revetted Mole:**

0+00 to 0+49	#1	Root
0+50 to 0+99	#2	Trunk Trans 10' - 12' Elev
1+00 to 2+79	#3	Trunk
2+80 to 3+00	#4	Head

The major deficiencies were as follows:

South Revetted Mole & Stub Breakwater:



a. Sta. 0+00, HS, Remove Trees from Armor stones.



b. Sta. 0+30, OS, Remove tree from sideslope.



c. Sta. 0+65, OS/Crest, Remove tree from revetment.



d. Sta. 1+00, OS, Monitor lea. Dislodged armor stone at the toe.



e. Sta. 1+90, HS, Remove trees and vines from revetment.



f. Sta. 2+19, HS, Cracked armor stone.



g. Sta. 1+80, OS, Monitor armor toe stones.



h. Sta. 2+25, OS Sideslope, Monitor slight depression.



i. Sta. 2+85, OS, Monitor sideslope depression.



j. Sta. 2+90, OS, Monitor 1 ea. Dislocated armor stone at the toe.

**Wave Absorber:**



- a. Sta. 1+99, Monitor changes @ 4'x4' void on the sideslope, UL exposed and one armor stone resting downside of void.

**North Revetted Mole:**



- a. Sta. 0+00, OS, Remove vines from structure.



b. Sta. 0+65, OS, OS, Remove vines from structure.



c. Sta. 1+00, Intersection of Wave Absorber, and North Revetted Mole, HS.



d. Sta. 1+50, Crest, remove trees on crest.



e. Sta. 1+70, OS, Monitor void and dislodged toe armor stones.



f. Sta. 2+25, OS, Monitor void and dislodged toe armor stone.

Tide: Low-medium  
Wave height: 2-3 feet

5. Findings/Conclusions:

The South Revetted Mole (220LF) + Stub Breakwater (90LF) are evaluated as one structure. These structure function primarily as 1 breakwater and for rehabilitation purposes, as they are connected, any impact to one structure will affect all. The major item of concern noted during this inspection was the condition of the Wave Absorber's void at Sta. 1+99, monitor the armor stones as they may have moved since the last inspection cycle. The overall condition of the project is GOOD.

Signed: \_\_\_\_\_  
Dan Meyers, CEPOH-EC-T

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

Attached:  
Additional Photos  
Project Index Map



Overview of MBK & Wave Absorber

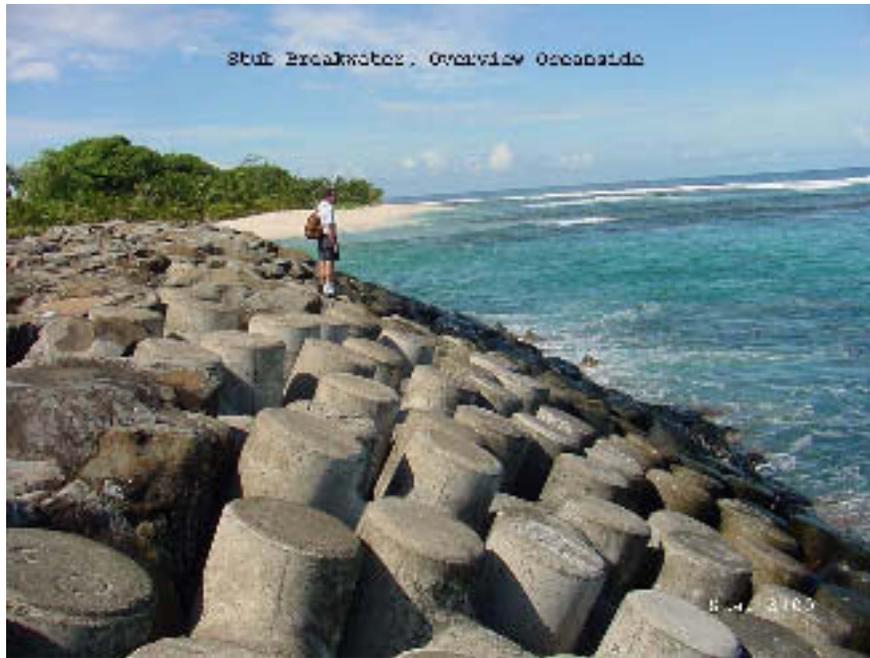




Sta. 2+50, BG/MSD, Overview of Tribars







AUNUU SMALL BOAT HARBOR, AMERICAN SAMOA

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1993

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized for construction on 7 June 1976 under Section 107 of the River and Harbor Act of 1960, as amended. Provides for an entrance channel 175 feet long, 70 feet wide and 14 feet deep; a turning area of 7,500 square feet and 14 feet deep; northern revetted mole 300 feet long; wave absorber 200 feet long; stub breakwater 90 feet long; southern revetted mole 220 feet long; a mooring area 13,500 square feet and 8 feet deep; and appurtenant aids to navigation.

PROGRESS OF WORK

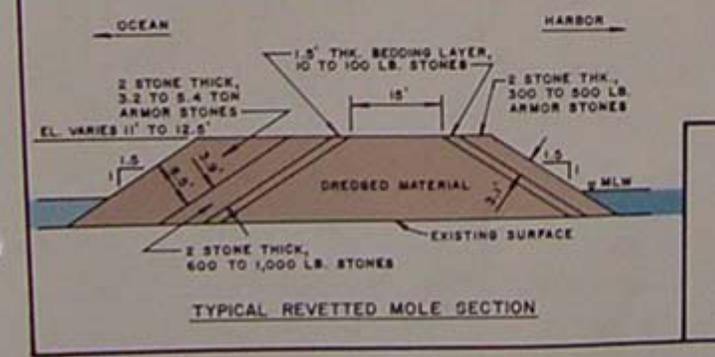
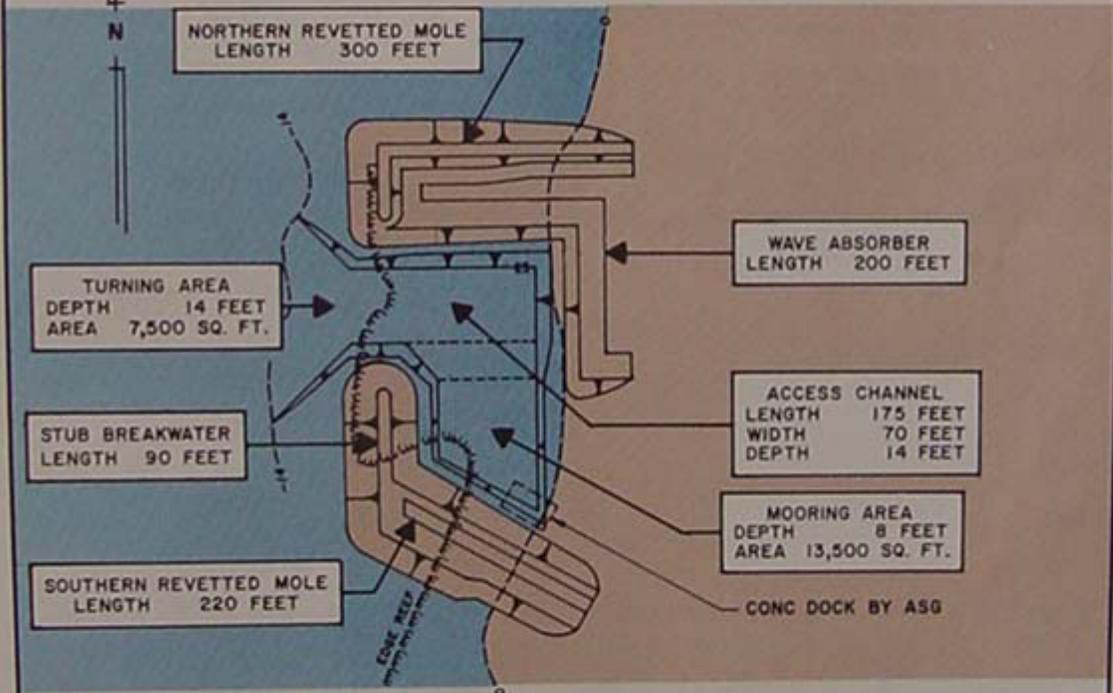
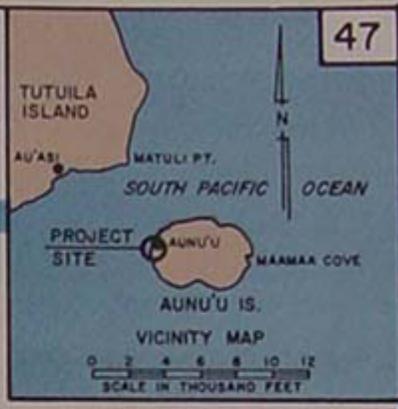
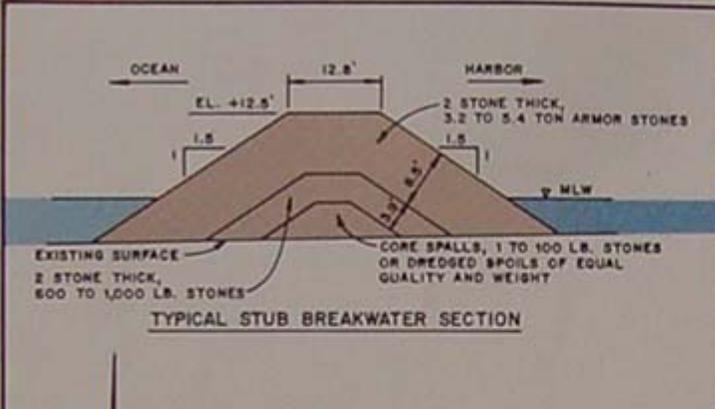
Completed and Under Maintenance: The project was completed in March 1981. Repair work to damaged revetted mole and wave absorber sections was completed in January 1985. A contract to repair damaged revetted mole and wave absorbers noted during an annual inspection of the harbor in September 1986 was completed in February 1989 for \$111,000.

Work Remaining: A single contract to repair damages to public facilities caused by Hurricane Ofa in February 1990 at Aunuu Harbor and to repair damages to breakwaters caused by Hurricane Val in December 1991 at Aunuu and Auasi Small Boat Harbor was awarded in August 1992 for \$415,000 of which \$395,000 was for Aunuu Harbor. Auasi Small Boat Harbor repair work was completed in February 1993 and Aunuu Harbor is scheduled for completion in June 1994.

COST OF CONSTRUCTION:

	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
<u>Completed Works:</u>			
United States Funds			
Corps of Engineers	\$1,703,000	\$221,598	\$1,924,598
Coast Guard	10,446	0	10,446
Contributed Funds			
Required	<u>224,848</u>	<u>0</u>	<u>224,848</u>
Total Costs	\$1,938,294	\$221,598	\$2,159,892
<u>Uncompleted Works:</u>			
United States Funds		<u>\$667,500</u>	<u>\$667,500</u>
Total Estimated Costs		\$667,500	\$667,500

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



AUNU'U SMALL BOAT HARBOR  
AUNU'U ISLAND, AMERICAN SAMOA  
REVISED 30 SEPTEMBER 1981

100 50 0 100

SCALE IN FEET

U. S. ARMY  
ENGINEER DIVISION, PACIFIC OCEAN  
CORPS OF ENGINEERS