



1. Project Name: Agana SBH
2. Date of Inspection: JULY 18, 2007
3. Inspection Personnel:

	<u>Name</u>	<u>Agency/Office</u>	<u>Telephone No.</u>
a.	Dan Meyers	COE	438-8875
b.	Justin Pummell	COE	438-7038

4. Discussion:

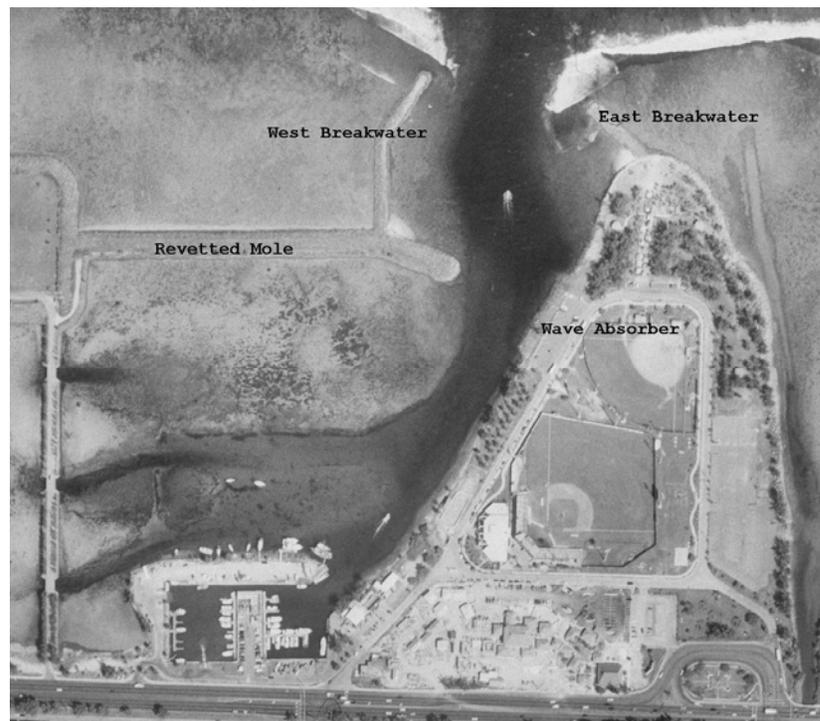
The inspection was conducted at low tide, and the overall condition of the project is good.

Revetted Mole (RM), 1,135 LF, I was unable to inspect 100% of the RM due to well-established trees and other vegetation on the splash apron, harborside (HS), of the crest. The oceanside (OS) of the RM is in good condition.

The West Breakwater, 525 LF, has minor deficiencies.

The East Breakwater, 150 LF, (Actual Length 190 LF) has minor deficiencies.

Wave Absorber, 250 LF, has minor deficiencies.





REVETTED MOLE - 1,135 LF
Sta. 0+00 to Sta. 11+35:



a. Sta. 0+00 to Sta. 11+35, HS, Overview of vegetation to be removed (FY03 photo).



b. Sta. 0+00, Centerline Crest (CL), Remove vegetation on the HS. Unable to inspect.



c. Sta. 0+85, CL, Monitor bridging and cracked armor stone.



d. Sta. 1+25, HS, Dislocated armor stone resting adjacent to toe.



e. Sta. 1+35, Settling Oceanside bulging harborside.



f. Sta. 1+50, HS, Dislocated armor stone resting adjacent to toe w/voids at the crest.



g. Sta. 1+60, HS, Remove trees / vegetation.



h. Sta. 2+80, cracked armor stone on crest.



i. Sta. 2+90, HS, Typical Ironwood tree to be removed as they are displace armor stones.



j. Sta. 2+91, CL, 1 ea. Cracked armor stone, still cracked.



k. Sta. 3+20, OS, Monitor flipped armor stone, changes this year.



l. Sta. 3+20, HS, Typical of heavy vegetation to be removed.



m. Sta. 4+63, CL, 1 each rested, 1 each flipped with void, slight movement this inspection.



n. Sta. 5+13, HS, Remove tree, 1ea flipped armor stone and bridging, cracked armor stone OS sideslope.



o. Sta. 5+25, HS, Remove vegetation, unable to verify armor placement, Overview of settling at crest.



p. Sta. 6+30, Depression on OS sideslope and bulge on HS sideslope (new this year).



q. Sta. 7+50, OS, Flipped armor stone.



r. Sta. 8+50, CL/HS, Reference photo.



s. Sta. 8+75, CL, Depression in crest, 2 each flipped armor stone on OS sideslope.



t. Sta. 9+30, HS, Void at hinge and dislocated armor stones at toe.



s. Sta. 9+30, CL, Overview, reference photo.

WEST BREAKWATER - 525 LF
Sta. 0+00 to Sta. 5+25:



a. Sta. 0+00 to Sta. 5+25, Overview (FY03 photo).



b. Sta. 0+00, CL, Overview, reference photo.



c. Sta. 0+48, HS, 1 ea. Dislodged toe armor stone approx 10' from toe.



d. Sta. 0+50, OS, Perched armor stone slight movement this inspection.



e. Sta. 2+38, OS Sideslope, 1 ea. split armor stone.



f. Sta. 2+83, HS, Monitor 3 ea. dislodged armor stones, approx. 3' from the toe of the structure.



g. Sta. 3+15, CL, 2 ea. Flipped armor stones.



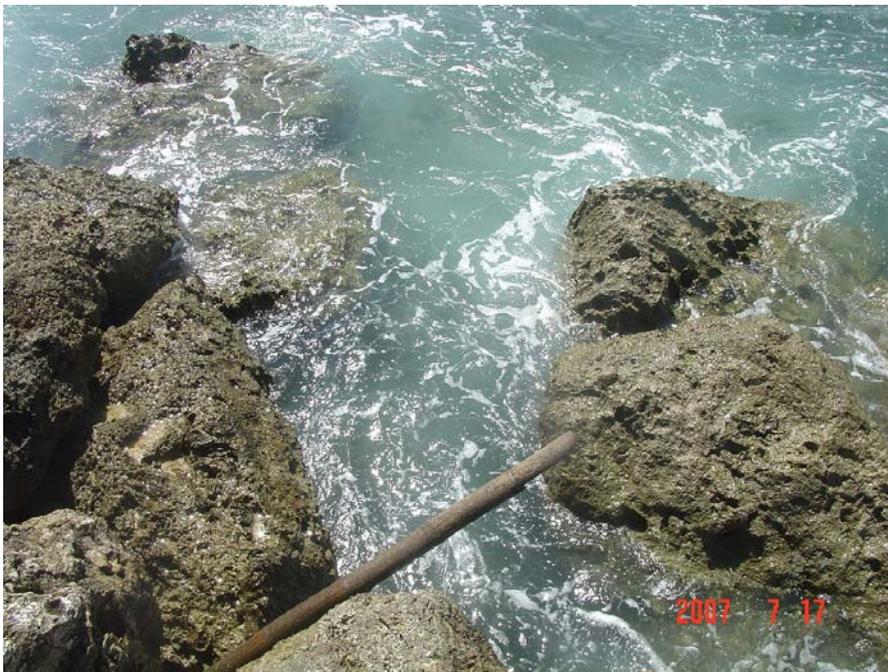
h. Sta. 3+20, HS, Monitor 1 ea. dislocated toe armor stone. One additional armor stone this Year.



i. Sta. 3+45, HS, 1 ea. Cracked armor stone.



j. Sta. 3+80, HS, Monitor 2 ea. dislocated toe armor stones, no change this year.



l. Sta. 4+82, HS, Monitor 2 ea. dislocated toe armor stones and void, no underlayer visible. Minor changes this year, continue to monitor.



m. Sta. 5+25, Head, No change, reference photo.

EAST BREAKWATER - 150 LF
Sta. 0+00 to Sta. 1+90:



a. Sta. 0+00 to Sta. 1+90, Overview (FY03 photo).



b. Sta. 0+00, HS, Overview reference photo.



c. Sta. 0+00, OS, Overview reference photo.



d. Sta. 0+70, CL, 1 each split armor stone at crest, settling new this year.



e. Sta. 0+82, CL, Monitor 2 ea. void, underlayer exposed.



f. Sta. 0+82, HS, 1 each dislodged armor stone approximately 10' from toe of the structure (new this year).



g. Sta. 0+95, CL, 1 ea. armor stone resting on crest with void.



h. Sta. 1+15, OS, Monitor void.



i. Sta. 1+50, HS, 2 ea. dislodged armor stone resting approx. 3' from the toe of the structure, void at Sta. 1+75.



j. Sta. 1+50, CL, Void.



k. Sta. 1+58, HS, Monitor flattening of sideslope, more change this year.



1. Sta. 1+75, CL, Monitor slight depression and void, no change this year.



1. Sta. 1+96, Head, Overview reference photo.



WAVE ABSORBER - 250 LF
Sta. 0+00 to Sta. 2+50:



a. Sta. 0+00 to Sta. 2+50, Overview reference photo (FY03 photo).



b. Sta. 0+00, Reference photo.



c. Sta. 0+30, CL, lea. armor stone resting on crest, no obvious void, slight movement this inspection.



d. Sta. 0+35, HS, Overview reference photo.



e. Sta. 1+20, Remove juvenile trees / bushes.



f. Sta. 1+50, HS Hinge, 1 ea. armor stone resting on the crest, remove trees.



g. Sta. 1+65, HS, Monitor 2ea. armor stones resting on sideslope. No change this year.



h. Sta. 2+00, 1 ea. Dislodged armor stone and void.



i. Sta. 2+25, Light Post, reference photo.



j. Sta. 2+40, HS, Monitor 1 ea. flipped armor stone.
Armor stone no longer there. Minor change this year.



k. Sta. 2+50, End of project reference photo.

5. Findings/Conclusions:

Immediate attention should be given to vegetation removal from both the revetted mole and the wave absorber structures. Armor Stones are being moved on the interior side of the revetted mole by large ironwood trees.

Signed: _____
Dan Meyers, CEPOH-EC-T

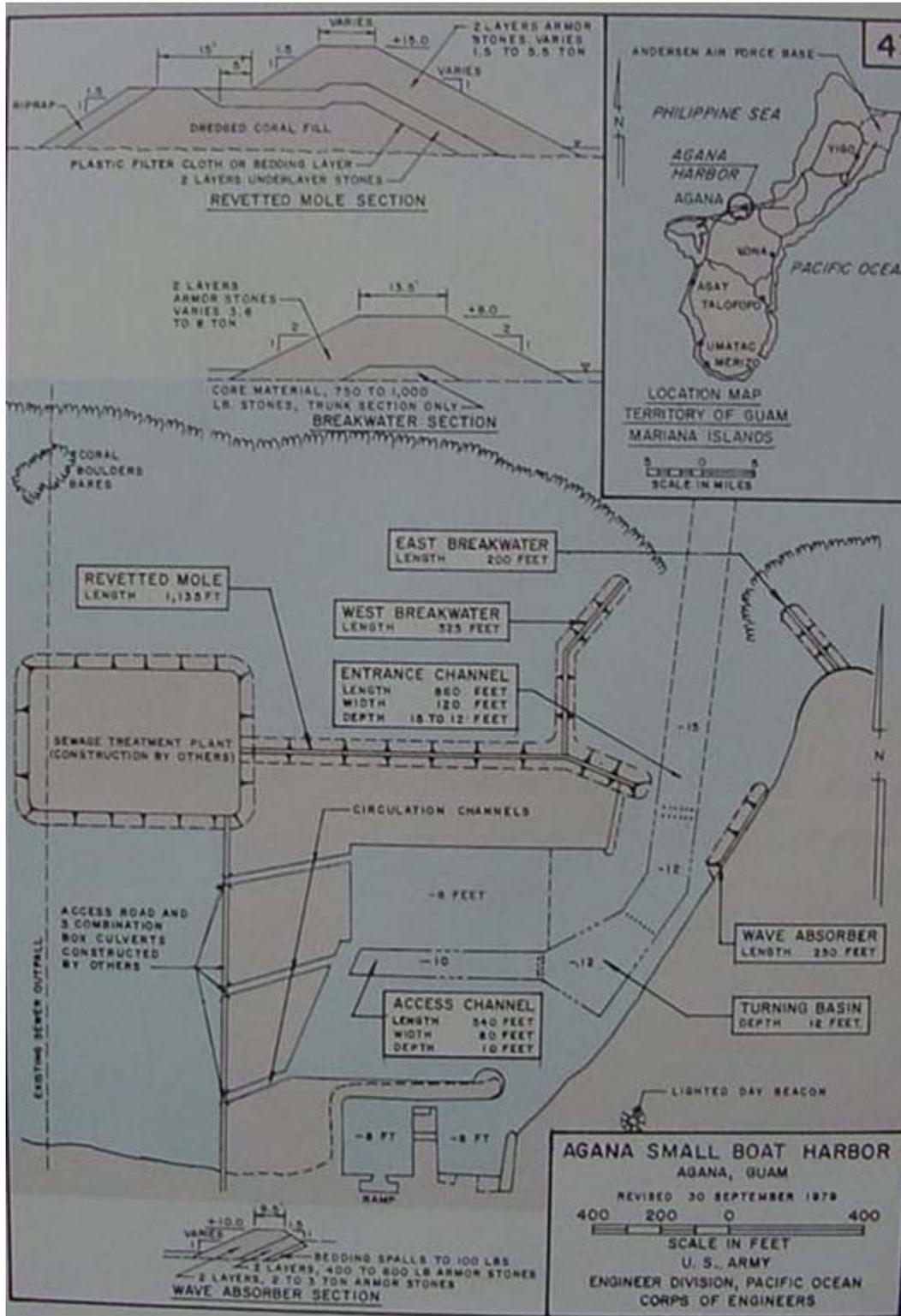
Signed: _____
James Pennaz P.E., CH, CEPOH-EC-T

Project Index Map



Vertical Datum:

New Benchmark "DCS", installed and will be maintained in the NGS Database. Contact the Vertical Datum Coordinator Justin Pummell, CEPOH-EC @ 808-438-7038 for more info.





AGANA SMALL BOAT HARBOR, TERRITORY OF GUAM

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1989

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized for construction in March 1975 under Section 107 of the River and Harbor Act of 1960, as amended. Provides for an entrance channel 860 feet long, 120 feet wide, 12 to 15 feet deep; a 1.2-acre turning basin 12 feet deep; a main access channel 540 feet long, 80 feet wide, 10 feet deep; a revetted mole 1,135 feet long, an east breakwater 200 feet long, a west breakwater 525 feet long; a 250-foot long wave absorber; four circulation channels; and navigation aid.

PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in August 1978.

Work Remaining: Plans and specifications to repair breakwater damaged by Typhoon Roy in January 1988 are 90 percent complete.

COST OF CONSTRUCTION:

<u>Completed Works:</u>	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
United States Funds			
Corps of Engineers	\$826,066		\$826,066
Coast Guard	18,966		18,966
Contributed Funds			
Required	<u>282,747</u>		<u>282,747</u>
Total Costs	\$1,127,779		\$1,127,779
<u>Uncompleted Works:</u>			
United States Funds			
Total Estimated Costs		\$440,000	\$440,000
		\$440,000	\$440,000

RANGE OF TIDES: The range of tide between mean lower low water and mean higher high water is 2.4 feet.

