



POST STORM INSPECTION REPORT - Tropical Cyclone Heta

OFU SBH

Honolulu Engineer District

CEPOH-EC-T

*Ofu-Heta40rpt-spp.doc*

1. Project Name: Ofu SBH
2. Date of Inspection: January 12, 2004
3. Inspection Personnel:

	<u>Name</u>	<u>Agency/Office</u>	<u>Telephone No.</u>
a.	<u>Dan Meyers</u>	<u>COE</u>	<u>808-438-8875</u>
	<u>Accompanied by:</u>		
b.	<u>Chris King</u>	<u>Ports Admin</u>	<u>684-633-4449</u>
c.	<u>Peter Lefiti</u>	<u>Ports Admin</u>	<u>684-733-3051</u>
d.	<u>Perelini Perelini</u>	<u>Ports Admin</u>	<u>684-633-4449</u>
e.	<u>Several Maintenance Staff from Ports Admin.</u>		

4. Discussion:

<u>STATION</u>	<u>REACH</u>	<u>COMMENTS</u>
0+00 to 1+74	#1a	Begin ribcap at 1+75
1+74 to 4+00	#1b	Root
4+01 to 6+00	#2	Trunk
6+01 to 6+10	#3	Head

The damages noted in this report are a result of Tropical Cyclone Heta, which hit the Island of Ofu, American Samoa on January 4, 2004. Numerous bedding / underlayer stones (50-100 lbs. have been washed up onto the harbor land area and possibility into the turning basin. These stones range in size from 20 lbs to 100 lbs. 75% < 100 lbs. The major damages / deficiencies were as follows:



a. Sta. 0+00 to 1+60, one ea. armor stones are missing. Restore the washed out fill material on the harborside adjacent the toe of the structure. Re-set the perched armor stones from the crest to the Sta. 0+00 area.



b. Same as Above.



c. Sta. 1+75 to Sta. 4+00, HS, Bedding material has been washed out from the concrete pillows under the ribcap. Washed out area is averaged to 12 feet wide x 4 feet deep.



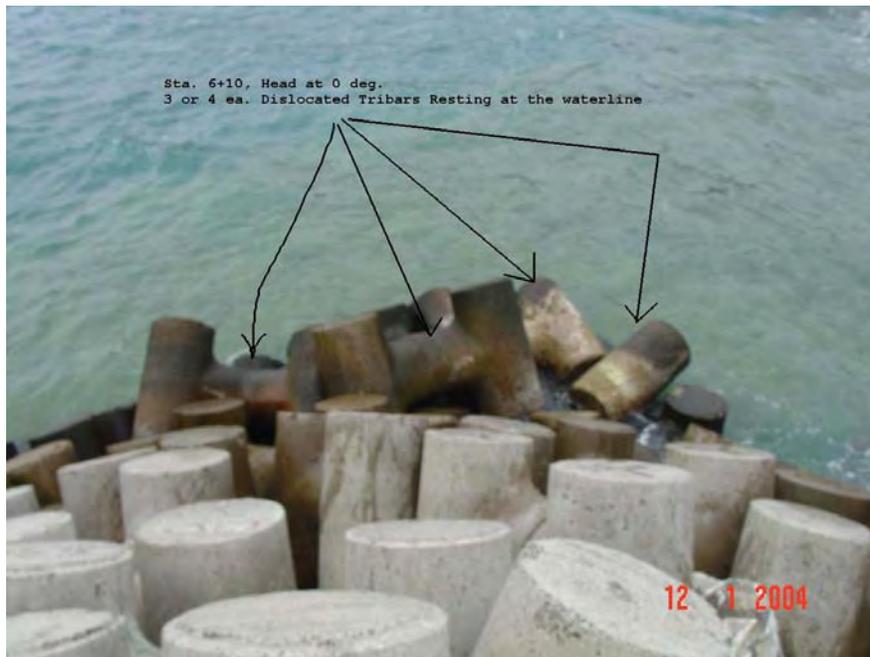
d. Same as Above - photo facing from Sta. 4+00



e. Sta. 6+05, OS, possible dislodged or broken tribar.



f. Sta. 6+10, OS Head, Approximately 3 ea. tribars have been washed out adjacent the ribcap.



g. Sta. 6+10, 0 deg. Head, approximately 3 or 4 tribars resting at adjacent the toe of the structure.



h. Sta. 6+10, OS, Gap from missing tribars.



i. Sta. 6+10, OS, View from the water.



j. Sta. 6+10, OS, Typical Overview (Photo for Reference).



k. Sta. Sta. 6+10, HS, Typical Overview (Photo for Reference).



l. Sta. 6+10, Head damage.



m. Sta. 1+75 - Sta. 4+00, HS, bedding material.

**NON-FEDERAL DAMAGE:**



Interior Revetment



Same as Above



Same as Above



5. Findings/Conclusions:

The damages noted in this report are a result of Tropical Cyclone Heta, which hit the Island of Ofu, American Samoa on January 4, 2004. The Revetment / Breakwater is approximately 933LF. Repairs to the structure due to Tropical Cyclone Heta are recommended and were as follows:

- a. Sta. 0+00 to Sta. 1+50 had minor scouring due to overtopping.
- b. Sta. 1+75 to Sta. 4+00, harborside, had major scouring washing out the bedding material.
- c. Sta. 6+10, OS Head, 3 ea. tribars were washed out creating a void which do affect the structural integrity of the structure.
- d. Due to the high wave energy during this event it is recommended that a hydrographic survey be conducted to evaluate the entrance channel and turning basin's adequacy.

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

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