



POST STORM EVENT REPORT - TYPHOON PONGSONA

FOR SHORE PROTECTION PROJECT

Honolulu Engineer District

CEPOH-EC-T

PongsonaAsquiroga03rpt-spp.doc

1. Project Name: Asquiroga SPP
2. Date of Inspection: December 22, 2002
3. Inspection Personnel:

Name	Agency/Office	Telephone No.
a. Dan Meyers	CEPOH-EC-T	808-438-8875

4. Discussion:

The purpose for this inspection was to assess any damages caused by Typhoon Pongsona. The project provides for approximately 275 LF of rock revetment. Crest elevation of +14 feet MLLW with a slope of 1V on 1.5 H . It was noted that the project has been modified. These modifications included raising the crest of the structure approximately 4 feet and extending the length by approximately 85 feet. This was identified in the 1999 CEI inspection report. **The below identified damages include the portion of the project completed as a local betterment.**

EMERGENCY REPAIRS REQUIRED :



PROJECT OVERVIEW



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Background Information:

The Original COE Project, constructed in August 1980, was Sta. 0+00 to Sta. 2+75, at a crest elev. Of +14' (MLLW)

DPW's Modification - Increase length Sta. 2+76 to Sta. 3+28, increased crest elev. to approx. 18' \pm (MLLW) the entire length of the project.

NOTE: Water tends to "pond" behind the structure as there was no consideration given to interior drainage.

The locations of damages on the sideslope will be identified as:

ZONE 1 - Damages that occur on the revetment's sideslope at the upper 1/3 of the revetment to crest of the structure.

ZONE 2 - Damages that occur on the revetment's sideslope at the middle.

ZONE 3 - Damages that occur on the revetment's sideslope from the toe to the lower 1/3 of the revetment.



a. Sta. 0+00 - Sta. 0+12, Armor Stone missing, Sideslope Failure (SSF), Zone # 2.



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b. Sta. 0+19 - Sta. 0+25, SSF dislodged armor stone and void Zone # 2.



c. Sta. 0+30 - Sta. 0+43, SSF dislodged armor stone and void,



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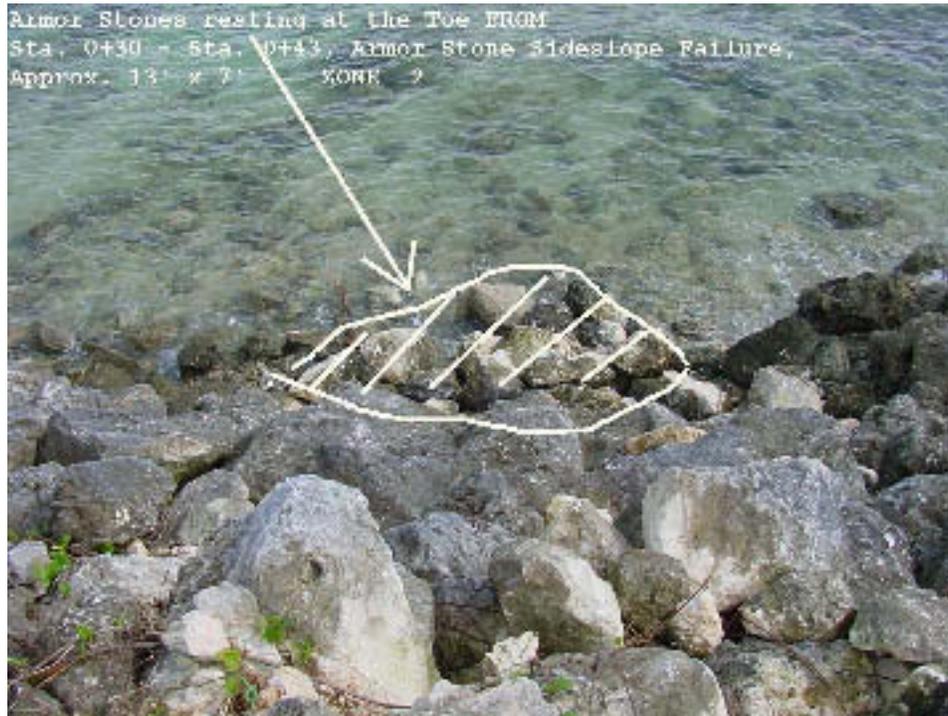
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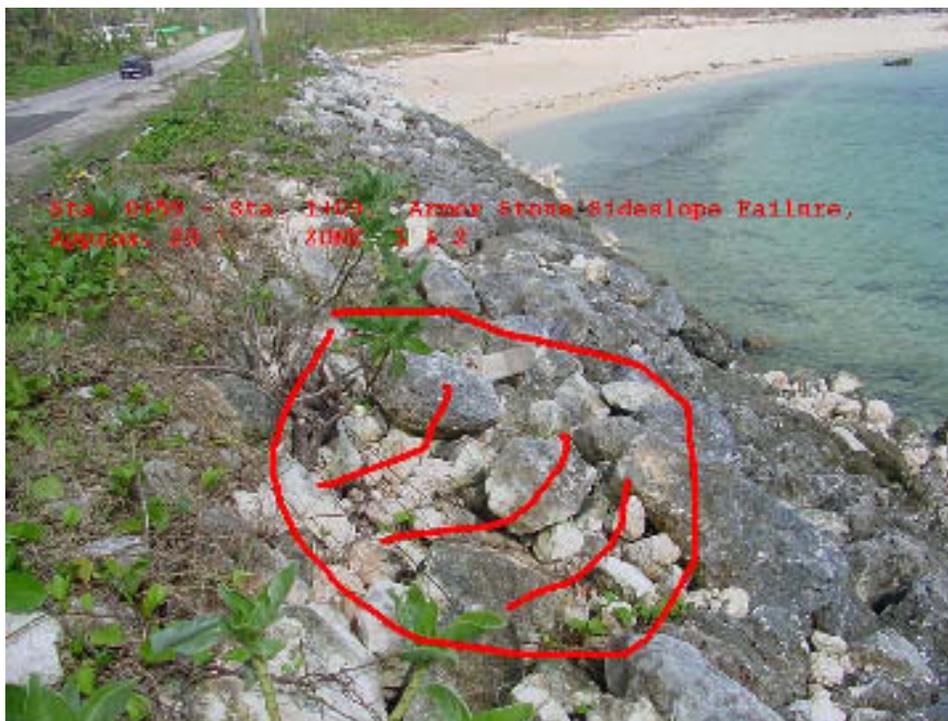
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Zone # 2.



c-1. Material from above SSF location, Zone # 3.



d. Sta. 0+59 - Sta. 1+09, SSF, Zone # 1.



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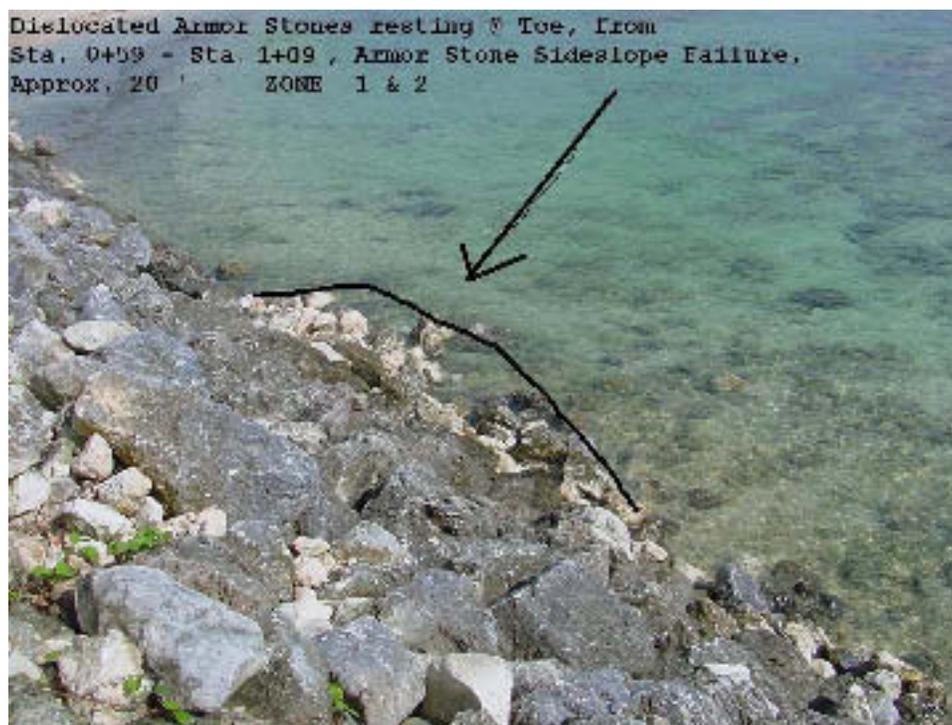
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e. Sta. 0+59 - Sta. 1+09, SSF, Zone # 2.



e-1. Material from above SSF location, Zone # 3.



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f. Sta. 1+16 - Sta. 1+23, SSF, Armor stone missing, void, Zone # 1.



g. Sta. 1+30 - Sta. 1+55, Void in Zone # 1; Sideslope Settling



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in Zone # 2.

Sta. 1+73 - Sta. 1+87, Armor Stone Sideslope Failure,
Approx. 10' ZONE 1 & 2



h. Sta. 1+73 - Sta. 1+87, SSF, Zone #s 1 & 2.

Armor Stone Resting # Toe from
Sta. 0+59 - Sta. 1+59, Armor Stone Sideslope Failure, -
Approx. 20' ZONE 1





h-1. Material from above SSF location, Zone # 3.



i. Sta. 2+07 - Sta. 2+13, Missing armor stone, void, Zone # 1;
Sideslope Settling Zone # 2.





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j. Sta. 2+18 - Sta. 2+33, Missing armor stone, Zone # 1.
Sta. 2+61 - Sta. 2+87, Armor Stone Sideslope Failure, BREACH
Approx. 26' ZONE 1, 2, & 3



k. Sta. 2+61 - Sta. 2+87, Breach, SSF, Zones 1, 2 & 3.





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k-1. Material from above SSF location, Zone # 3.



1. Sta. 3+02 - Sta. 3+33, SSF, Zone # 1.





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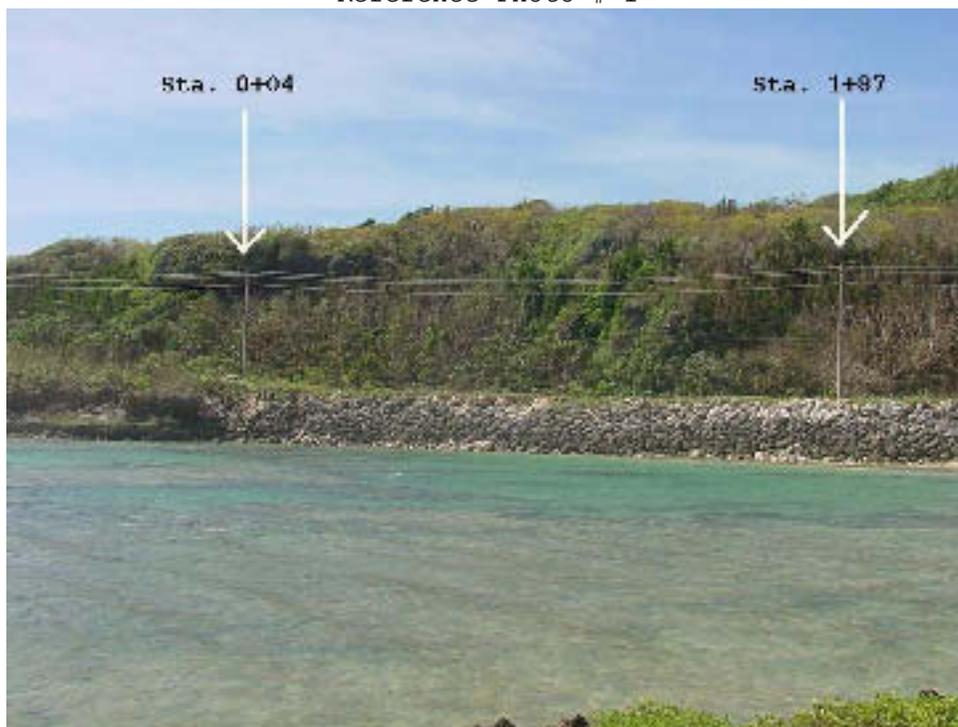
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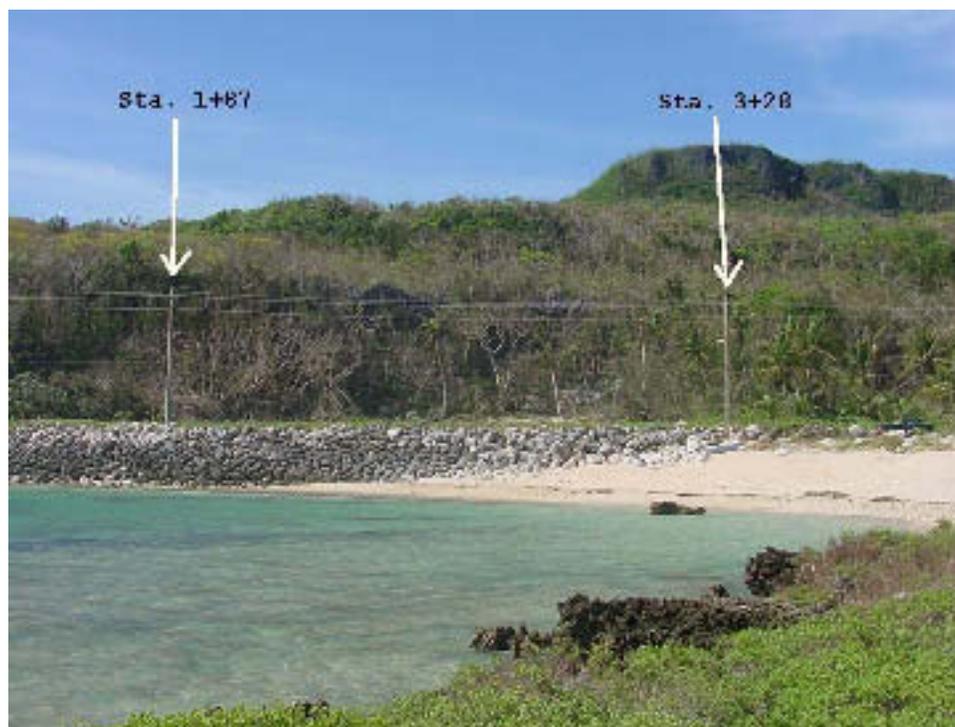
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Reference Photo # 1



Reference Photo # 2



Reference Photo # 3



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5. Findings/Conclusions:

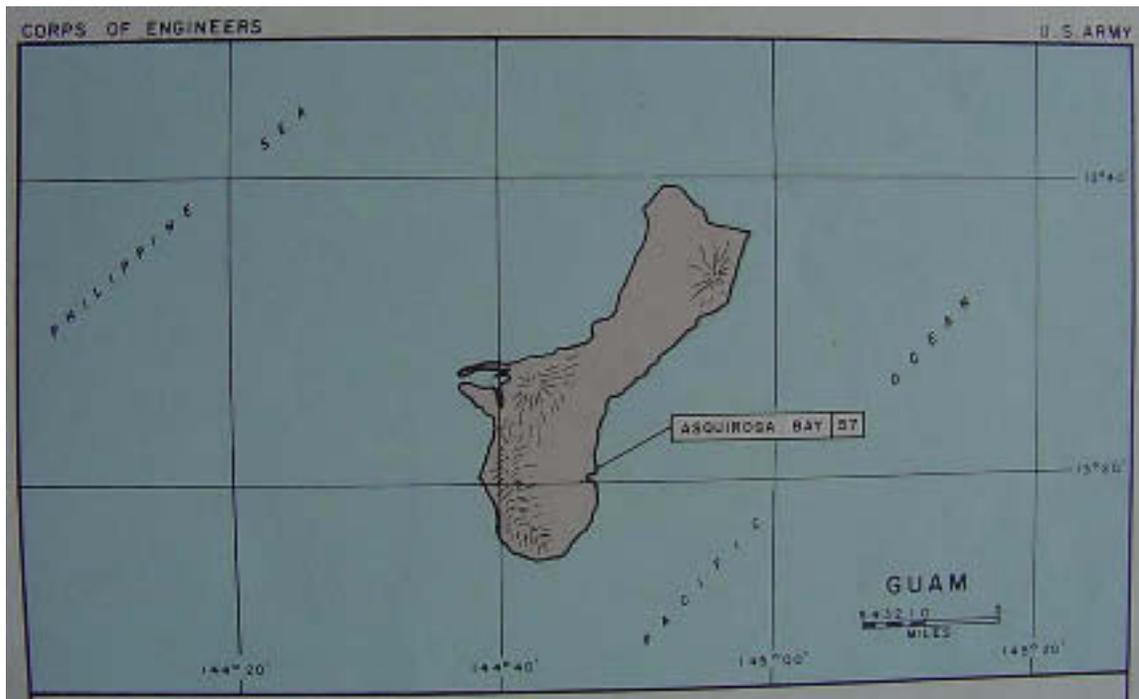
As a result of Typhoon Pongsona, the Asquioga SPP did sustain damages which if not repaired will lead to further deterioration. It is likely the revetment will not be able to withstand another similar event. Emergency repairs are required.

Signed: _____
Dan Meyers, CEPOH-EC-T

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

Enclosure(s)

1. Site Plan





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ASQUIROGA BAY, GUAM

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1989

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized for construction on 19 August 1980 under Section 14 of the Flood Control Act of 1946, as amended. Provides for a 275 feet rock revetment with a crest elevation of +14.0 feet (MLLW) with a slope of 1V on 1.5H.

PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in December 1985.

Work Remaining: None

COST OF CONSTRUCTION:

<u>Completed Works:</u>	<u>New Work</u>
United States Funds	<u>\$218,181</u>
Total Costs	\$218,181



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