Bench Mark TBM-1 "+"
Cut in concrete by bathroom
N149452.81, E423054.50
EL - 16.38 MLLW

REV LTR	ZONE	DESCRIPTION	DATE	BY	CHK	APVD
		REVISIONS				

U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN
HONOLULU DISTRICT
HONOLULU, HAWAII

DESIGN DIVISION
HONOLULU ENGINEER DISTRICT

PREPARED | CHECKED

US Army Corps of Engineers

LOC CODE	DRAWING NUMBER						DATE	LOCATION
	PREFIX	CLASS	TYPE	SEQUENCE	SHEET			

Sea Engineering, Inc.
MAKAI RESEARCH PIER
WAIMANALO, HI 96795
(808) 259-7966/FAX (808) 259-8143

KEYNOTES

1. Elevation control Mag. Nail Elev. 4.14 ft, on Finger Pier 19. Elevation and horizontal control from TBM-1 "+" cut in concrete sidewalk by bathroom.
149,452.81N 423,054.50E
El.=16.38

2. Elevations are in feet referred to Mean Lower Low Water

3. Coordinate System Hawaii State Plane Zone 2, NAD27, feet.

4. Depth accuracy ±0.3 feet or better.

5. Soundings collected at discrete intervals. Bottom conditions may vary between soundings.

6. The Federal Project limit line is located at the bottom of the side slope dredge cut, and defined by points 1 - 13.

7. Survey of inner berthing area (project limit points 6 - 9) conducted on June 8, 2005. Survey of inner and outer channels conducted on December 13, 2005.

Manele Harbor – Lanai
Bathymetric Survey
8 June 2005
13 December 2005

REVISIONS		
NO.	DATE	REVISION

Bathymetric Survey

Plan

PROJECT NUMBER 05-33
PROJECT ENGINEER ME
DRAWN BY ME
CHECKED BY
SCALE 1" = 40'
DATE 12-15-05
SHEET 1 of 1

DATE	BY	CHK	APVD

ENGINEER DIVISION, PACIFIC OCEAN
HONOLULU DISTRICT
HONOLULU, HAWAII

US Army Corps of Engineers

LOC CODE	DRAWING NUMBER					LOCATION
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