

4741

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton *Director*

*State, Hawaiian Is.*

DESCRIPTIVE REPORT

to accompany

SHEET X

NORTHEAST COAST OF OAHU

KANEOHE BAY TO KAHANA BAY

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated July 14, 1931. Additional verbal instructions were received from representatives of the Chief of Engineers, U. S. Army. The field work was done in cooperation with the Army and the purpose was to develop possible landing sites for troops. Since it was desired to expedite the work as much as possible, the topographic party was required to locate hydrographic signals only. However, some additional features could be obtained without delaying the progress unduly and so the water line and highway were plotted.

METHODS:

For a description of methods used, see Descriptive Reports for Sheets "I" and "BB". In general the work was done in accordance with standards specified in Special Publication #144.

CONTROL:

Five triangulation stations were plotted on this sheet. At Station Kahana no other signal on the sheet was visible. Accordingly an azimuth to Station Laie 1 was plotted on this sheet and in this way the table could be oriented. The traverse was then run to Station Kaaawa.

CLOSURES:

On the traverse from Kahana to Kaaawa, the error was five meters, in azimuth. This was adjusted proportionally. From Kaaawa to large chimney, the error was zero. For the remainder of the sheet, there were sufficient signals visible to check each set-up with a three point problem.

JUNCTIONS:

At Kualoa Point, the shoreline joined satisfactorily with the previous survey as shown on sheet #4834, 4383.

Respectfully submitted,

*Hubert A. Paton*

Hubert A. Paton,  
Lieutenant.

## LIST OF PLANE TABLE POSITIONS

SHEET X

Object & Description	Lat.	D.M.	Long.	D.P.	Height
END, north end small pier	21°33'	1510	157°51'	1695	
*HIT, chimney, large white house, dark roof	21°33'	1384	157°51'	1627	35 ft.
GAB, east gable, green house	21°33'	1376	157°51'	1509	
ROC, north end rock wall	21°33'	1241	157°51'	1117	3 ft.
GRE, center, green house	21°33'	1162	157°51'	1184	
RED, north gable, red house	21°33'	1164	157°51'	1109	
*OUT, east cor. green house	21°33'	1189	157°51'	769	
BOAT, boat hoist	21°33'	1256	157°51'	974	
LET, comfort station, north Kaaawa Park	21°33'	1129	157°51'	650	8 ft.
MET, N.E. gable, shack with G.I. roof	21°33'	976	157°51'	597	10 ft.
*AIR, wind sock, emergency landing field	21°33'	836	157°51'	352	30 ft.
Cul, N.E. end, concrete culvert	21°33'	573	157°51'	147	
Hut, center, fisherman's shack, small	21°33'	466	157°51'	64	7 ft.
*S.E. corner, Hanta's Store	21°33'	327	157°51'	4	
TOY, comfort station, south Kaaawa Park	21°33'	351	157°50'	1686	8 ft.
TRE, tallest ironwood tree, along highway	21°33'	273	157°50'	1690	
COR, N.E. corner red house	21°33'	234	157°50'	1688	
Water tank, Kaaawa School	21°33'	121	157°50'	1722	25 ft.
CON, S.E. corner concrete bridge, Kaaawa Stream	21°32'	1581	157°50'	1548	
*BIU, N.E. gable, blue house	21°32'	1318	157°50'	1238	
Bench Mark "F4"	21°32'	1298	157°50'	1192	
ROW, East gable brown house	21°32'	1272	157°50'	1200	
VER, east end, concrete, culvert	21°32'	1082	157°50'	1114	
center of brown house, "Puhala"	21°32'	932	157°50'	1114	
LUC, east end, concrete culvert	21°32'	898	157°50'	1065	
* S.E. cor. house, "Kananelu"	21°32'	771	157°50'	1078	
*WAT, wooden water tank, white	21°32'	417	157°50'	813	12 ft.
RUN, end of low rock wall	21°31'	1808	157°50'	532	
FIL, end of rock wall, north side of entrance	21°31'	1754	157°50'	497	
DAV, boat davit	21°31'	1594	157°50'	406	
RAM, pyramidal roof, brown house	21°31'	1587	157°50'	458	
PIN, tallest pine tree	21°31'	1546	157°50'	460	
*TANK, black water tank	21°31'	1520	157°50'	442	20 ft.
*LOW, N.E. cor. red house	21°31'	1688	157°50'	489	
ARCH, ornamental coral arch	21°31'	1415	157°50'	408	
YEL, center dark brown house, "Herring's"	21°31'	1068	157°50'	452	
GRA, S.E. cor. grey house, "Bayles'"	21°31'	1016	157°50'	449	
JAP, N.E. cor. small shack	21°31'	275	157°50'	613	
FEN, S.E. cor. corn field	21°30'	1733	157°50'	603	
PALM, lower one of two palm trees	21°30'	1388	157°49'	1675	
F.A.P. 915+00 distance post	21°33'	1485	157°52'	5	3 ft.
SIN, " 905+00 " "	21°33'	1358	157°51'	1449	"

Object & Description	Lat.	D.M.	Long.	D.P.	Height
DOG, F.A.P. 895+00 distance post	21°33'	1244	157°51'	1170	3 ft.
" 865+00 " "	21°33'	874	157°51'	365	"
PAR, " 855+00 " "	21°33'	629	157°51'	185	"
" 845+00 " "	21°33'	375	157°51'	12	"
WET, " 835+00 " "	21°33'	93	157°50'	1644	"
" 825+00 " "	21°32'	1656	157°50'	1612	"
IMP, " 815+00 " "	21°32'	1421	157°50'	1370	"
NO, " 805+00 " "	21°32'	1214	157°50'	1160	"
BAT, " 795+00 " "	21°32'	923	157°50'	1077	"
" 785+00 " "	21°32'	639	157°50'	968	"
" 755+00 " "	21°31'	1710	157°50'	514	"
" 745+00 " "	21°31'	1412	157°50'	436	"
" 725+00 " "	21°31'	806	157°50'	502	"



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

Honolulu, T. H.

February 28th 1935

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Hubert A. Paton

Chief of Party.

[illegible]

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

## REVIEW OF TOPOGRAPHIC SURVEY No. 4741

Title (Par. 56) *Kaneohe Bay to Kahana Bay, Oahu, T.H.*Chief of Party *H.Q. Patton* Surveyed by *H.Q.P.* Inked by *H.Q.P.**Partly - Inshore Hyd. Survey  
Ship of Oahu.*Instructions dated *7/14/31* Surveyed in *1932*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.) —
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) —
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) —
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) —
8. The representation of low water lines, reefs, coral reefs and rocks, and ~~legends pertaining to them~~ is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) Previous survey on 1-20,000 scale (H-3252). Very little detail shown. ✓
10. The span, draw and clearance of bridges are shown. (Par. 16c.) —
11. Locations and elevations of summits are given. (Par. 19, 51.) —
12. The tree line was shown on mountains. (Par. 16g.) —

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control. ✓
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *Plotting checked.* ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *Decl. at Δ Kahana = 12°20' E. Shows evidence of local attraction. " near Δ Mokolii l. = 15° E.*
18. The geographic datum of the sheet is *Old Hawaiian* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. *This sheet joins T-4383 on the south (survey of 1928).* ✓
20. Geographic names are shown on the sheet ~~and are covered by the Descriptive report.~~ (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~ ✓
24. Remarks:

Reviewed in office by *H. A. Paton, 1/3/34*  
*Inspected by A. L. Shalowitz*  
 Examined and approved:

*L. O. Solbert*  
 Chief, Section of Field Records

*L. O. Solbert*  
 Chief, Division of Charts

*J. B. Borden*  
 Chief, Section of Field Work

*G. F. Stude*  
 Chief, Division of Hyd. and Top.



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TOPOGRAPHIC TITLE SHEET

**CONFIDENTIAL**

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. X

REGISTER NO. **4741**

State Hawaiian Islands

General locality Northeast Coast of Oahu

Locality ~~Kaneohe Bay~~ Kahana Bay to Kualoa Pt.

Scale 1:5000 Date of survey Oct.-Nov., 19 32

Vessel Inshore Hydrographic Survey of Oahu

Chief of Party Hubert A. Paton, Lieut.

Surveyed by H. A. P.

Inked by H. A. P.

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated July 14th, 19 31

Remarks: Surveyed in cooperation with the U. S. Army