

4754

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

Topographic  
सुन्दर चित्रात्मक

Sheet No. B B

4754

### LOCALITY

Kahuku Point,

Island of Oahu

Hawaiian Islands

19 32

### CHIEF OF PARTY

Hubert A. Paton

U. S. GOVERNMENT PRINTING OFFICE: 1928

DECLASSIFIED BY NOAA  
PURSUANT TO DOC SYSTEMATIC REVIEW  
GUIDELINES AS DESCRIBED IN SECTION  
3.3(a), EXECUTIVE ORDER 12356

Descriptive Report

to accompany

Sheet "BB"

Kahuku Point, Oahu.

INSTRUCTIONS:

Work on this sheet was done in accordance with verbal instructions of the Department Engineer and his representatives. It was desired to investigate only possible landing sites for troops and to expedite the work as much as possible. Accordingly, only the hydrographic signals and shore line were located. Such additional information as was obtained could be done without delaying the progress of the party.

GENERAL DESCRIPTION OF COAST:

The area covered by this sheet is in general quite low near the shore. At a distance of one-half to one mile the land rises abruptly to low rolling hills about 800 feet high. The topographic maps of the Geological Survey, on a scale 1:20,000 were found to be quite accurate and the contours and development of the area could be used advantageously on our charts.

Most of the area is under cultivation, pineapple fields covering most of the hills. On the flat areas, sugar cane is grown south of the railroad and pasture grasses north of the railroad.

CONTROL:

Eight triangulation stations, well distributed, furnished the basic control for the topographic survey. Directions to eight additional signals were taken by the triangulation party, which were plotted on the topographic sheet and were not computed. In this manner, the control was so profuse that it was unnecessary to run any stadia traverses.

METHODS:

Usual methods recommended by the manual were used. In one instance, the small island north, northwest of signal RED could not be located conveniently by the plane table. Sextant fixes were taken by the hydrographic party landing an observer and a recorder. These fixes will be found in the records of Sheet #30. They were plotted directly on the topographic sheet.

Respectfully submitted,

*Hubert A. Paton*

Hubert A. Paton,  
Lieutenant,  
Chief of Party.

# PLANE TABLE POSITIONS

Sheet #BB

OBJECT & DESCRIPTION	Lat.	D.M.	Long.	D.P.	Height
Fence Corner	21°41'	693	158°01'	338	5'
"Ant", north corner of house	21°41'	1359	158°01'	746	10'
"Hut", detached iron wood tree	21°41'	1547	158°01'	411	15'
"Dog", w. cor. s.w. house	21°42'	5	158°01'	145	10'
"Pol", flagpole	21°42'	98	158°01'	39	20'
"Ney", s.w.cor.green ho.,red roof, "Sonova"	21°41'	1815	158°00'	1671	15'
"Ema", n.w.cor.grey ho.(water tank in rear)	21°41'	1736	158°00'	1563	20'
"Fig", n. cor. brown house	21°41'	1721	158°00'	1464	15'
"Han", w. cor. club house	21°41'	1779	158°00'	1274	15'
"Nel", n.w. cor. grey house	21°42'	200	158°00'	1102	15'
"Barn", n.w. cor.	21°41'	1375	158°00'	555	15'
"Lef", n. cor. north house, camp #3	21°42'	493	158°00'	21	12'
"Up", w. cor. small shack	21°42'	842	157°59'	1016	8'
"Gauge", on side of water tank	21°41'	1272	157°59'	359	15'
"Tal", radio pole (s.w.'ly one of eight)	21°42'	207	157°59'	382	355'
"Vic", center of green ho.,red roof, (Punapalaha)	21°42'	1256	157°59'	484	15'
"Soc", wind sock, landing field	21°42'	1287	157°58'	1182	20'
"Pip", pipe on sewer outfall	21°42'	1429	157°58'	913	5'
"Power", highest power line pole (on hill)	21°41'	938	157°58'	894	20'
"End", n.e. cor. large shack	21°42'	1331	157°58'	546	10'
"Roc", cylinder rock	21°42'	1392	157°58'	368	10'
"Wal", east end rock wall	21°42'	914	157°57'	1719	4'
"Post", 8" x 8" wooden post	21°42'	801	157°57'	1678	4'
"May", 6' x 9', concrete block, (Masonic sign)	21°42'	669	157°57'	1619	4'
"Windmill",	21°42'	456	157°58'	275	20'

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

Honolulu, Fort Shafter, T. H.

February 16th 1933

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. 4754

Title (Par. 56) *Kahuku Point & vicinity, Oahu I., Haw. Is.*

Chief of Party *H.A. Paton* Surveyed by *H. A. Paton* Inked by *H. A. Paton*

Party - *Inshore Hyd.*  
~~Ship~~ *Surr. of Oahu.* Instructions dated *July 14, 1931* Surveyed in *July-Aug. 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.) *Coral reefs near Aiea were redlined in. Farther offshore the limits of breakers were cut in by tangents. Where, in conflict with H. 5318, the hydrographic location should control.*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
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.) ✓
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.) *found to be 13°10'E. This does not check charts. Control for azimuth was excellent. Possibly local attraction.*
18. The geographic datum of the sheet is *Old Hawaiian Datum* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
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, Dec. 11, 1933.*

Examined and approved:

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

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

*B. Borden*  
Chief, Section of Field Work

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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEOD. SURV.  
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OCT 17 1933

REG. NO. 4754

TOPOGRAPHIC TITLE SHEET

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. B.B.

REGISTER NO. 4754

State Hawaiian Islands

General locality North Coast of Oahu

Locality Kahuku Point and Vicinity

Scale 1:5000 Date of survey July August, 1932

Vessel Inshore Hydrographic Survey of Oahu

Chief of Party Hubert A. Paton, Lieut.

Surveyed by Hubert A. Paton,

Inked by Hubert A. Paton

Heights in feet above H.W. to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated July 14, 1931

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