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U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Hawaiian Is.

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No. Y 4757

LOCALITY

Northeast Coast of Oahu, Hawaii

Kahana Bay to Kalaipalooa Point

1933

CHIEF OF PARTY

Hubert A. Paton

U. S. GOVERNMENT PRINTING OFFICE: 1930

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

DESCRIPTIVE REPORT

to accompany

SHEET "Y"

NORTHEAST COAST OF OAHU
KAHANA BAY TO KALAIPALOA POINT

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated July 14, 1931. The survey was made in cooperation with the U. S. Army in order to furnish control for the Inshore Hydrographic Survey of the island. Only the location of signals and the high water line was desired.

CONTROL:

Only one Coast and Geodetic Survey triangulation station fell on this sheet, but four stations established by the Hawaiian Territorial Survey were recovered and their position adjusted to the ~~1930 Standard Datum.~~
Old Hawaiian Datum.

METHODS AND CLOSURES:

Usual methods recommended by the topographic manual were employed. A traverse was begun at the north end of the sheet, Station Waimanana. At signal Hay a check was obtained by a cut on Station Kaluanui and found to be correct.

At signal IUU, a similar cut indicated that the traverse was 6 meters short in distance, and proper correction was made.

At signal Ant a check on azimuth was obtained by a back sight on Station Waimanana and error of 3 meters was corrected.

The closure on Station Kahana was 3 meters short in distance. All error was adjusted proportionally until negligible.

NEW NAMES:

Puna Point is known locally as Makalii Point and is so named on U. S. Geological maps. It is recommended that the name be changed.

*Recommendation approved, and card sent to U.S. Geog. Board,
H.B.*

*Kahaka Pt. on Chart 4116 full. Respectfully submitted,
in the same position (21°36'20")
as Kalaipalooa Pt. The latter is the Hubert A. Paton
accepted local name. Eliminate Kahaka, Lieut., U.S.C. & G.S.
Card will be sent to U.S. Geog. Board.
H.B.*

PLANE TABLE POSITIONS
SHEET "Y"

Object and Description	Lat.	D.M.	Long.	D.P.	Height
KAL, S.E. cor. bridge, Kaluanui Stream	21°36'	114	157°53'	1696	
● Fed. Aid. Proj. stake, 1165+00	"	530	157°54'	86	
S.E. cor. red house	21°35'	1684	157°53'	1586	
LER, south gable white house	"	1545	"	1513	
TRE, lone, tall, ironwood tree	"	1467	"	1408	
WIN, N.E. cor. house, glass front	"	1388	"	1283	
ARK, cen. of roof, dark red house	"	1372	"	1246	
LEM, N. gab. green roof, white house, "Halemaluhia"	"	1254	"	1105	
POL, N. radio pole	"	1161	"	986	40 ft.
HOP, radio pole, 2 story grey house, Mr. Bishop	"	959	"	843	35 ft.
RAM, cen. green pyramidal roof, Mr. Bush	"	830	"	801	
BIB, concrete wall, tree in notch	"	778	"	754	
NET, Fed. Aid. Proj. stake, 1095+00	"	618	"	704	
PAR, old church, Chinese	"	498	"	701	25 ft.
MON, red steeple, Laie Mormon	"	594	"	718	30 ft.
ATE, F.A.P. stake, #1085+00	"	315	"	658	
LUU, N.E. cor. north bridge, Punaluu Str.	"	265	"	652	
GAN, E. gab. green house	"	121	"	630	20 ft.
F.A.P. stake, 1075+00	"	30	"	565	
CUL, center N.E. end, culvert	21°34'	1838	"	545	
USE, radio pole on grey house, rock porch	"	1767	"	516	35 ft.
PUN, S.E. cor. south bridge, Punaluu Stream	"	1672	"	398	
● F.A.P. stake, 1065+00	"	1642	"	373	
HUT, center thatch roof, Punaluu Park	"	1560	"	266	
TOY, toilet, Punaluu Park	"	1530	"	225	
F.A.P. stake, 1055+00	"	1443	"	88	
TAL, N. gab. grey ho., Lt. W.H. Abbey	"	1362	157°52'	1657	
IKE, N. cor., green house, red roof	"	1338	"	1564	
RIP, N.W. cor. grey house, white trim	"	1282	"	1415	
URN, N. cor. grey house, green roof, R.W. shingle	"	1256	"	1369	
BUD, S.E. cor. house, red roof, A.J. Budge	"	774	"	1152	
SON, radio pole, S.E. cor. E.L. Patterson's ho.	"	618	"	1141	
OAT, E. end, small boat house	"	505	"	1124	
RUS, chim. rustic house, Mrs. Cameron	"	441	"	1143	
SIP, S.E. cor. grey ho., A.W. Walsh, "Kainehe"	"	343	"	1143	
CO, F.A.P. stake, 1005+00	"	208	"	1170	
F.A.P. stake, 985+00	21°33'	1499	"	1216	
WET, E. end culvert	"	1420	"	1243	
BAY, S.E. cor. bridge, west mouth, Kahana Str.	"	991	"	1115	
REV, N. gable, boat shed, S.H. Eapio	"	948	"	764	
MID, center, pyramidal roof, Mr. Kukanui	"	1274	"	278	
F.A.P. stake, 925+00	"	1288	"	210	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Honolulu, T. H.June 3rd, 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.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					old Hawaiian DATUM
	°	'	D. M. METERS	°	'	D. P. METERS			
Bridge	21	36	710 ✓	157	54	191 ✓	1930 Stand. Triangu	#4110	
Bridge	21	36	114 ✓	157	53	1696 ✓	" Topo.	"	
Largest House	21	35	498 ✓	157	53	701 ✓	" "	"	
Bridge	21	34	1672 ✓	157	53	398 ✓	" "	"	
Bridge	21	33	⁹⁹¹ 949 ✓	157	52	1115 ✓	" "	"	
House	21	33	1274 ✓	157	52	278 ✓	" "	"	
The following objects should be removed from the charts.									
Spire	21	35	928	157	53	862		"	
Spire	21	35	703	157	53	780		"	

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, flagstaves and like objects are not sufficiently permanent to chart.

REVIEW OF TOPOGRAPHIC SURVEY No. 4757

Title (Par. 56) *Haw. Is., N.E. Coast Oahu, Kalaipaloo Pt. to Kahana*Chief of Party *H.A. Paton* Surveyed by *H.A. Paton* Inked by *H.A. Paton**Party- Inshore Hyd.*~~State~~ *Surv. Oahu.*Instructions dated *July 14, 1931* Surveyed in *1933*

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.)
Had closure of 6m. in 1 1/2 miles - which is too great according to Topo. Manual - Satisfied instructions, however.
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.) *No legends.* ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) *T. 3160 & H. 3252* ✓
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 DMs and DPs, 68.) *Plotting checked MAP.* ✓
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.) ✓
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. ✓
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 12/29/35*
Sheet inspected by A. L. Chalant
 Examined and approved:

L. O. Lobbutt
 Chief, Section of Field Records

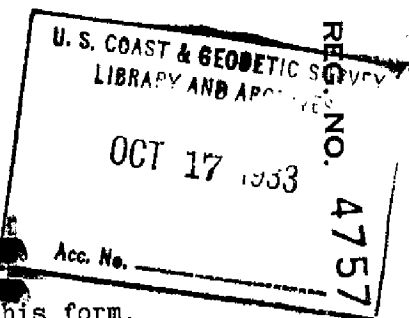
L. O. Lobbutt
 Chief, Division of Charts

H. B. Borden
 Chief, Section of Field Work

E. H. de
 Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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.Y.....

REGISTER NO. 4757

State.....~~Republic of~~ Hawaiian Is.....

General locality...Northeast Coast of Oahu ~~XXXX~~.....

Locality.....Kapaka Pt. to Kahana ~~XXXX~~ point.....

Scale...1:5000..... Date of survey...Feb. & March....., 1933.

Party

Vessel...Inshore Hydrographic Survey of Oahu.....

Chief of Party...Hubert A. Paton.....

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....., 1931.

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