

DESCRIPTIVE REPORT

to accompany

SHEET E.E.

NORTHWEST COAST OF CAHU

KAWAIAPAI TO KAENA POINT

INSTRUCTIONS:

The survey of this area was done in cooperation with the U. S. Army under instructions from the Director, Coast & Geodetic Survey, dated July 14, 1931, and also under verbal instructions from the representatives of the Chief of Engineers, U. S. A. Its purpose was restricted to a rapid development of possible landing sites for troops. On this account, the topographic party located the hydrographic signals and the shore line only. Some additional information was obtained without delaying the progress of the work.

CONTROL:

Eleven triangulation stations were located within the limits of the sheet. They provided sufficient control so that no long traverses were necessary and all closing errors were nil.

JUNCTIONS:

T-4753

On the east, this sheet joins the field sheet "DD". The shore line was determined by transfer from that sheet and the traverse extended to Triangulation Station Y.M.C.A.

On the west, a good junction with Sheet 4779 was made. Three old signals were recovered and their location checked.

METHODS:

7-467, For a general description of methods used, see Descriptive Reports of Sheets "L", "CC" and "DD." Areas inclosed by a dashed line and described as "breakers" indicate the general shape and limits of breakers in normal weather, that is, when a light northeasterly or easterly breeze is blowing. In unfavorable weather, breakers are continuous along this coast and extend farther offshore than shown.

LANDMARKS:

The Geological Survey maps (scale 1:20,000) were found to be quite accurate and the contours should be shown on our charts. The unimproved and incomplete road constructed up the face of the cliff in Longitude 158°15'.5 is a prominent land mark. A subgrade for an inclined railway was constructed

up the first draw east of this road, but is not shown by the Geological survey. An approximate location of this is shown on the topographic sheet.

CORRECTION TO CHARTS:

On Chart #4110 (issued in 1919), an arc of visibility for Kaena Point Light is shown. These rays should be removed as the light is not obscured.

Respectfully submitted,

Hubert Q. Paton Hubert A. Paton,

Lieutenant,

Chief of Party.

PLANE TABLE POSITIONS

SHEET E. E.

Object & Description	Lat.	D.M.	Long.	D.P.	Height
LEF, Radio tower - steel	21°34'	1477	158°13'	904	100 ft.
Rit, Radio tower - steel	21°34'	1544	158°13† √	1106 😽	' 100 " '
water tank, wooden	21°34 1	- 1 4 66	158°13′	1022	25 "
CHI, rock chimney, largest bldg.,					•
Camp Erdman	21°34'/	1664	158°13'	1047	·
BOY, fleg pole, ref. mark in base	210341	1727/	1580131	1030	
Railroad trestle (center)	21°34 2	1673	158°13'	1655	موسيب
GAB, north gable, red house	21°34'.	1631	158°14'	107	20 "
WART, prominent rock on shoulder of				,	
cliff	21°34'	1283 /	158°14'	815	850 "
	·				(approx.
BOX, small rock shelter for machine	•		· •		
gun	21°34'	1747	158°15'	34 🗸	
Railroad trestle (center)	21°34'V	1720 /	158°14'	160 🗸	
Railroad trestle "	21°34'	1720 /	158°14'		
Railroad trestle "	21°34' /	1690 /	158°14'	1298 🗸	
Railroad trestle "	21°34' ~	1633	′ 158°14' 🗸	1710 /	
Railroad trestle "	21°34' '	1592	´ 158°15' 🖊	747 /	
Railroad trestle "	21°34'	1705	158°15'-	254 /	
Railroad trestle "	21°34'	1498 /	158°15 🖍	1426 /	•
SIG, railroad crossing sign .			158°16'	557	
Cave, small, on side of rock	21°34'/	1328 ′	158°16'	924	
TIP, north end of large rock	21°34' -	1344	158°16'	967	
Railroad trestle (center)			158°16'	1018 ′	
U.S. Navy Radio Compass Station,			•	•	
red bldg.	21°34'	1194 -	158 ° 16'	1594 🖊	20 ft.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY



LANDMARKS FOR CHARTS

	Honolulu, Nort Shofter, W. II.		
DIRECTOR, U. S. COAST AND GEODETIC SURVEY:	- FeD - 20th	, 193	5

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

<u> </u>					Ilu	bert A.	Paton,		Chief of Par
	_			POSIT	ION				
DESCRIPTION		LATI	TUDE	LONGITUDE		DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED	
	0	1	O. M. METERS	•		D. P. METERS	DATUM		
Radio Tower (100°)	21	34 [°]	1477	150	-13	924	1930 Stend	Боро	4110
Redio Tower (100°)	21	34	1544	158	15	1106	t1	11	17
Largost Bldg.Camp Brdmu	121	34	1664	158	_15	1047	17	tt .	н
Red House	21	54, *	1631	158	14	107	. tt	f3	tī
romient Rock (850° elev	r) ;	21 54	1285	158	14	815	11	11	11
ompass Station, red bld	21	34	1194	158	16	1594	n	tt	п
Black Rock	21	54	1657	158	14	1369	11	Sextent Cuts	11
ailroad Trostles	21	34	1675	158	.1 5′	1655	51	₩opo	TT .
17 78	21	34	1720	158	14	160	п	. 17	11
n a	21	<u>54</u> /	1720	150	14	_805	f7	n	ct .
n , n	21	34	1690	158_	14	1298	Π	tr	11 ·
tt n	21	34	1655	159	14	1710	F1	f1	t)
े इंगे	21	54.	1592	158_	15	747	7 2	rı	17
n n	21	34	1705	1.59	15	254	17	1 3	. 11
ti n	21	54	1498	158	15	1426	ŧŧ	п .	£\$
11 11	21	54	1276	1.5 3	16	<i>y</i>	59	п	n

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must

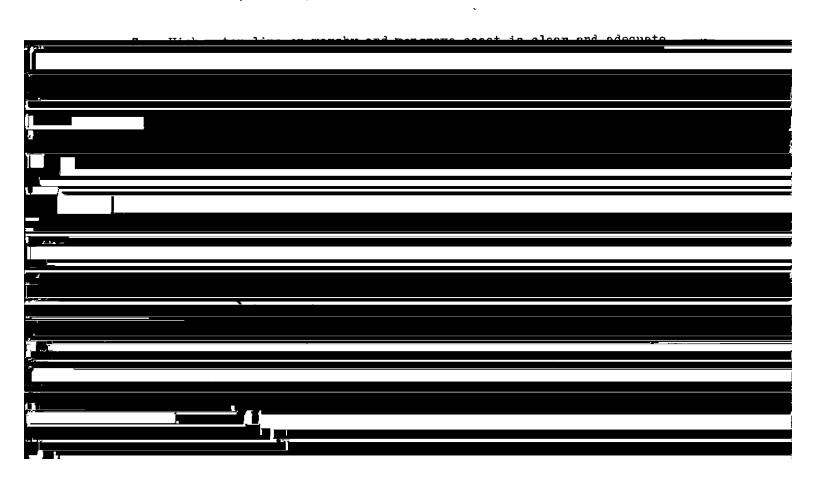
REVIEW OF TOPOGRAPHIC SURVEY No. 4752

Title (Par. 56) Northwest Coast of Oaku, Haw. Is., Kaena Pt. - Kaiwaihapai

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

Both 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.)



- 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.) Cards checked by estimate the state of the state of 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.) Decl. measure 11°, 112°, 112° 10°, 9°50' all Ely. All taken at Astas. Local surveyors claim decl. varies in this area.
- 18. The geographic datum of the sheet is Old Hawaiian reference station is correctly noted. (Par. 34.)

and the

- 19. Junctions with contemporary surveys are adequate.
- 20. Geographic names are shown on the sheet and are covered by the Bes- seriptive reports (Par. 64, 66k.)
- 21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 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 N.A. Pafon

Examined and approved:

Chief. Section of Field Records

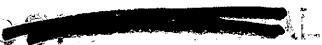
Chief, Division of Charts

Chief. Section of Field Work

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 U.S. COAST & GEODETIC SURVEY warded to the Office.

Field No. EE

LIBRARY AND COMINGS

OCT 17 553

REGISTER NO. 4752

State	Hawaiia n Islands	Ac
General locality.	Northwest Coast of Oa hu	
LocalityKaen	a Pt. to Kawai hapai sira lalim	
Scale 1:5000	Date of surveySeptemb	er, 1932_
VesselIn	shore Hydrographic Survey of O	ahu
Chief of Party	Hubert A. Paton, Lieut.	
Surveyed by	н. А. Р.	
Inked by	R. A. P.	
Heights in feet	above H. W. to ground to-	tops_of_trees
Contour, Approxi	mate contour, Form line interva	alfeet
Instructions dat	ed July 14th, 1931	, 19
Remarks: Surveyed	l in cooperation with the U. A.	Army.

GPO