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Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey <u>Topographic</u>	
Field No. <u>Ph-79</u>	Office No. <u>T-11113 thru T-11116</u>
LOCALITY	
State <u>Hawaii</u>	
General locality <u>Oahu</u>	
Locality <u>Lualualei</u>	
<u>1953</u>	
CHIEF OF PARTY	
Div of Photogrammetry, Washington, D.C.	
LIBRARY & ARCHIVES	
DATE <u>April 26, 1955</u>	

6-1870-1 (1)

DECLASSIFIED

AUTHORITY

Memo, Photogrammetry, 4-3-64

DATE 4-7-64

BY DRG

DATA RECORD

T - 11113 thru T-11116

Project No. (II): Ph-79

Quadrangle Name (IV): LUALUALEI, OAHU, HAWAII

Field Office (II):

Chief of Party: L. Reed

Photogrammetric Office (III): Washington, D.C.

Officer-in-Charge:

Instructions dated (II) (III):

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Stereo Instruments

Manuscript Scale (III): 1:6,000

Stereoscopic Plotting Instrument Scale (III): 1:4800 (low Alt.)
1:15,000
(high Altitude)

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV): 1:6,000

Publication date (IV):

Geographic Datum (III): Old Hawaiian

Vertical Datum (III): M.S.L.

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:

Long.:

Adjusted
Unadjusted

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Areas contoured by various personnel
 (Show name within area)
 (II) (III)

Contouring for entire Area by Morton Keller.

DATA RECORD

Field Inspection by (II): None

Date:

Planetable contouring by (II): None

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Not Applicable

Projection and Grids ruled by (IV): Jack Allen

Date: 1-27-53

Projection and Grids checked by (IV): H. Wolfe

Date: 1-28-53

Control plotted by (III): I. Jarrett

Date: 2-27-53

Control checked by (III): S. W. Trow

Date: 2-28-53

~~Reduction~~ or Stereoscopic

Date: 3-3-53

Control extension by (III): Morton Keller

Planimetry Morton Keller

Date: 4-24-53

Stereoscopic Instrument compilation (III):

Contours Morton Keller

Date: 4-24-53

Manuscript delineated by (III): Henri Lucas

Date: 5-1-53

Photogrammetric Office Review by (III): B. J. Colner

Date: 6-26-53

Elevations on Manuscript
checked by (II) (III): Louis J. Reed

Date: 4-27-53

Camera (kind or source) (III):

PHOTOGRAPHS (III)					
Number	Date	NAME	Scale	Stage of Tide	
1-1 thru 3-1	1/15/52	U.S. Navy	1:31,400	Not	
1-2 "	5-2	"	"	Applicable	
1-1 "	12-1	"	1:9200		
1-2 "	14-2	"	"		
1-3 "	17-3	"	"		
1-4 "	12-4	"	"		
1-5 "	11-5	"	"		
1-6 "	9-6	"	"		

Tide (III)

Reference Station: Not Applicable
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): B. J. Colner

Date: 6-16-53

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

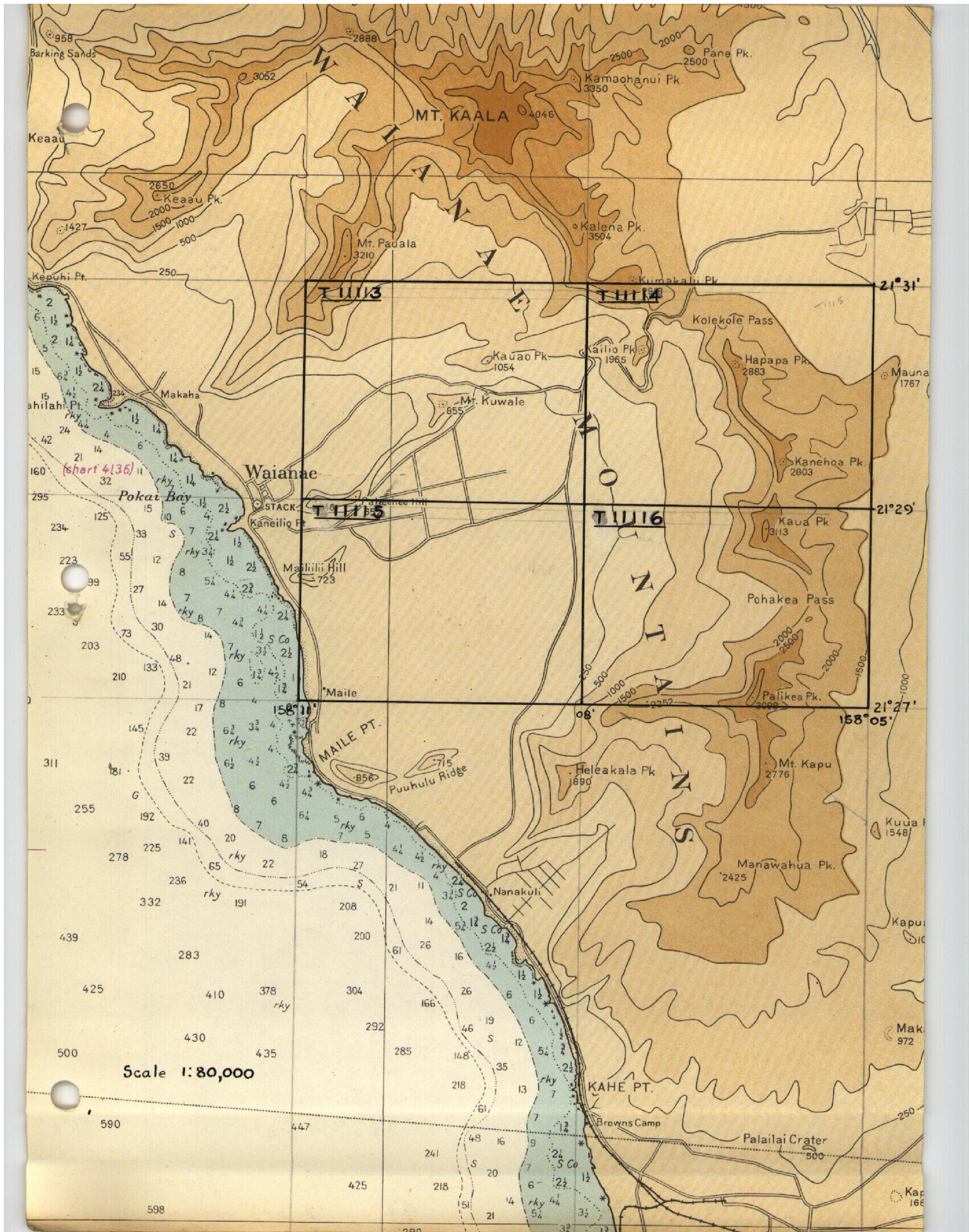
Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

These maps were made on reimbursable basis for the navy. They are being negotiated now as to have a permanent record.
Mg



COMPILATION REPORT

Topographic Manuscripts
T-11113, T-11114, T-11115, T-11116

1. Authority:

This compilation has been completed by the U.S. Coast & Geodetic Survey as Project Ph-79. The work has been done for the 14th Naval District in accordance with correspondence initiated by that Headquarters dated 28 Feb 51, serial 2489.

2. Area Covered:

The mapped area is located at Lualualei, Oahu, Territory of Hawaii. The approximate center of the area is at 21°27'N by 158°08'W, and it covers, generally, the Naval Installation and the area to the eastward to the ridge, in accordance with graphic outline of the area as furnished by the 14th Naval District. The entire area requested has not been mapped; portions on the north and south limits of the 100ft contour zone were omitted because of lack of photo cover, and portions near the crest of the ridge were omitted because of cloud and shadow cover.

*they were obscured
by clouds and shadows.*

3. Data and Materials:

All of the following items were available for this compilation and are being returned, except the instrument diapositives and instrument worksheets which are of no further use and are being destroyed.

a. Film: One roll, 6", metrogon, emulsion no. 57-209-4

Taken 15 January 1952 by U.S. Navy.

b. Photographs, Contacts:

High Alt.: 1/1 thru 3/1, and 1/2 thru 5/2

Low Alt.: 1/1 " 12/1, 1/2 thru 14/2, 1/3 thru 17/3,
1/4 " 12/4, 1/5 " 11/5, and 1/6 thru 9/6.

c. Photographs, Glass Diapositives:

High Alt: 1/1, 2/1, and 3/1

low Alt.: 7/2-19/2, 5/3-12/3, 2/4-10/4, and 2/5-7/5.

d. Photo-Indexes: Photographic copies of stapled mosaics, one copy of high altitude and two copies of low.

e. Control Station Identification Cards: 14 with attached Position of Substitute Station computation cards.

f. Field Books: Three, as received.

g. Field Computations: One set, unbound, as received.

h. Control Computation Sheets: Five, form M-2388-12

3. Data and Materials: Contd

- ✓ 1. Layout Sketch: Two copies, 14th Naval District, Public Works Dep, Topographic Map, Laahaulei, Oahu, T.H., 1:6000 scale, Outline of Aerial Survey.
- ✓ j. Manuscripts: Four, vinylite, with polyconic projection and U.T.M.grid.
- k. Worksheets: Eight, vinylite, with instrument delineation work in colored pencil.

4. Method:

All compilation work was performed on the Stereoplanigraph, model C-5, No. 61639, located in the Division of Photogrammetry, Commerce Building, Washington, D.C. The general plan followed was to contour the 5ft and 10ft interval areas with the low altitude photography, and to work the balance with the high altitude photography. Accordingly, the project was started by ordering glass plate diapositives of the photographs to be used, by ruling projections and grids on vinylite manuscripts on the Reading Ruling machine, and by plotting and checking control on the manuscripts. Instrument work began on 11 Feb 1953 with control being extended thruout every model of the low altitude photography(Para 3c), directly on the manuscripts. When this was completed, each model was reoriented in the instrument and all culture and contours delineated on separate vinylite worksheets to which control had been transferred from the manuscripts. The two high altitude models were then delineated, and data on the individual worksheets were transferred to the manuscripts by matching similar control points on each. This phase was completed and the manuscripts forwarded for reproduction 30 April 53.

5. Results:

All cultural and topographic data have been compiled on the four manuscripts, using, for the most part, colors and symbols in standard use for USC&GS compilations. Permanent plastic inks were used. In a few cases, symbols have been developed to best show features, the exact nature of which, was uncertain to the instrument operator. Three separate classifications for woods cover have been used; Timber(T), Scrub(S), and, Timber and Scrub mixed (T&S). Contours in certain heavily wooded areas have been shown dashed to indicate questionable accuracy. Photograph centers, with numbers, and secondary control established by the control extension procedure, are inked in permanent plastic ink on the reverse sides of the manuscripts for convenience. The secondary points are identified on a set of contact pictures with descriptions written on the reverse sides. Both horizontal and vertical control were adequate for this project. One substation (9-A) was not positively identified and was not used as a part of the control for this compilation.

6. Recommendations:

of It is recommended that a thorough field check be ^{made} ~~applied~~ to this compilation to verify or correct doubtful contours and details of questionable identity. Otherwise, these maps are considered to be accurate within the limits specified by National Standards of map accuracy.

Louis J. Reed
 Louis J. Reed, Chief
 Stereoscopic Mapping Branch
 Photogrammetric Engineer

PARTIAL REDRAFTING ON VINYLITE

Angela P. Berry — T-11113 6/5/53

M. P. Doyle — T-11116 6/5/53

Michael Jones — T-11114 6/5/53

Martha C. Welker — T-11115 6/8/53

Review Report
Topographic Maps
T-11113 to 11116, Incl.
June 19, 1953

61. General Statement.-The specifications for this project were contained in correspondence initiated by the 14th Naval District dated February 28, 1951. The entire requested area was not mapped because of lack of photographic coverage and the obscuring of detail by clouds and shadows. An ozalid was provided by the Navy delineating the areas to be mapped at 5 ft., 10 ft., 20 ft., 50 ft., and 100 ft. contour interval. The Navy also provided the photography and control, both horizontal and vertical. The bridging and compilation were done with the Zeiss Stereoplanigraph.

66. Adequacy of Results.-Contours in heavily wooded and brush covered areas are of questionable accuracy because the stereoscopic instrument operator was not able to see the ground; these contours are shown with dash lines and their accuracy can only be determined by a field test. Except for the dash line contours, the maps are believed to conform to the usual standards of accuracy, that is, 90% of well defined details are within 1/50 inch of correct geographic position and 90% of the elevations interpolated from the maps will be correct within 1/2 contour interval. (exclusive of dash contours). This estimate of accuracy is made without benefit of field test.

A field check has been made since the review. The tests show that the contours are well within 1/2 contour interval.
Reviewed by: *J.C.P. 20 Dec 1954*

B.J.C.

B. J. Colner

APPROVED:

S. V. Gifford
Chief, Review Branch,
Div. of Photogrammetry

Approved by:

S. V. Guggisberg
Chief, Review Branch

Wm. S. Kickett
Chief, Division of
Photogrammetry 638

J. H. Edmonson
Chief, Nautical Chart Branch,
Division of Charts

Carl O. Heaton
Chief, Division of Coastal
Surveys B

GEOGRAPHIC NAMES

Survey No. T-11,113-

T-11,116

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Title (general)</u>										1
<u>Territory of Hawaii</u>										2
<u>Oahu</u>										3
<u>Waianae District</u>										4
										5
										6
										7
										8
T-11,113:										9
Wa <u>Lualualei Homesteads</u>										10
										11
T-11,114:										12
<u>Kolekole Pass</u>										13
<u>Puu Hapapa</u>										14
<u>Puu Kailio</u>										15
										16
T-11,115:										17
<u>Puu Malilikii</u>										18
<u>Lualualei Homesteads</u>										19
										20
T-11,116:										21
<u>Pohakea Pass</u>										22
										23
										24
										25
										26
										27
										28

Names approved
5-18-53

I just
S. H. T. 1-27

758
Photogrammetry

MAP T. J-1115-

PROJECT NO. *GR-79*

SCALE OF MAP 1:6,000

SCALE FACTOR Page 1 of 2

[illegible]

1 FT. = 3048006 METER

COMPUTED BY:...

DATE:

CHECKED BY:

DATE _____

M-2388-12

MAP T. *T-11115*

PROJECT NO. Ph. 79

SCALE OF MAP 1:6,000

SCALE FACTOR

Boys 2012

[illegible]

1 FT. = 3048006 METER

COMPUTED BY: _____

DATE _____

CHECKED BY:

DATE _____

W-2388-12

SCALE FACTOR

1 FT. = .3048006 METER

COMPUTED BY:--

DATE:

CHECKED BY:

DATE _____

BR-79

T-11116

0009.1

SCALE FACTOR

BR-79

1 FT. = .3048006 METER

COMPUTED BY:...

DATE:

CHECKED BY:

DATE _____

M-2388-12

MAP T. *T-11113* PROJECT NO. *OK-179* SCALE OF MAP *1:6,000* SCALE FACTOR

MAP T. *T-11113* PROJECT NO. *OK-179* SCALE OF MAP *1:6,000* SCALE FACTOR

[illegible]

COMPUTED BY:

DATE:

CHECKED BY:

DATE:

PUBLIC WORKS OFFICE
COMMANDANT 14TH NAVAL DISTRICT
Navy No. 128 c/o F. P. O.
San Francisco, California

80:DB-350:jw
J12

9444

NOV 26 1954

From: District Public Works Officer, Fourteenth Naval District
To: Director, U. S. Coast and Geodetic Survey, Department of
Commerce, Washington 25, D. C.
Subj: Aerial Survey, Naval Ammunition Depot and Naval Radio Station,
Lualualei, Oahu, T. H. (PH-79)

Ref: (a) DIR USCOGEODSURV ltr No. 78-aal of 2 Jun 1954
(b) DFWO 14ND ltr 80:DB-350 J12 Ser 5289 of 30 Jun 1954

Encl: (1) 3 prints USC&GS Topographic Maps T-11113, T-11114 and
T-11115, Lualualei, Oahu, T. H.

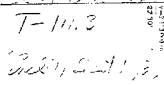
1. Reference (a) requested information on the results of any field surveys made which would be of assistance in determining the accuracy of the topographic maps. Reference (b) advised that certain survey work was being planned in Lualualei, and that data obtained from the surveys would be furnished your office.

2. Revisions in the work schedule caused by changes in priority of work items have resulted in the above surveys being completed at a much later date than was originally expected. The survey work performed, which could be utilized as a check on the topographic maps available, consisted mainly of a few traverse lines along which profiles were run. These traverse lines have been plotted upon the prints forwarded as enclosure (1), together with elevations obtained at specific points. While these profile elevations were obtained to the nearest 0.1 foot, they have been shown on the enclosed prints only to the nearest foot to facilitate comparison.

3. The cooperation which you have given in this matter is greatly appreciated and it is hoped that the field information being furnished will prove to be of some assistance to you.

Copy to:
CO NAD Oahu
OIC NRS Lualualei

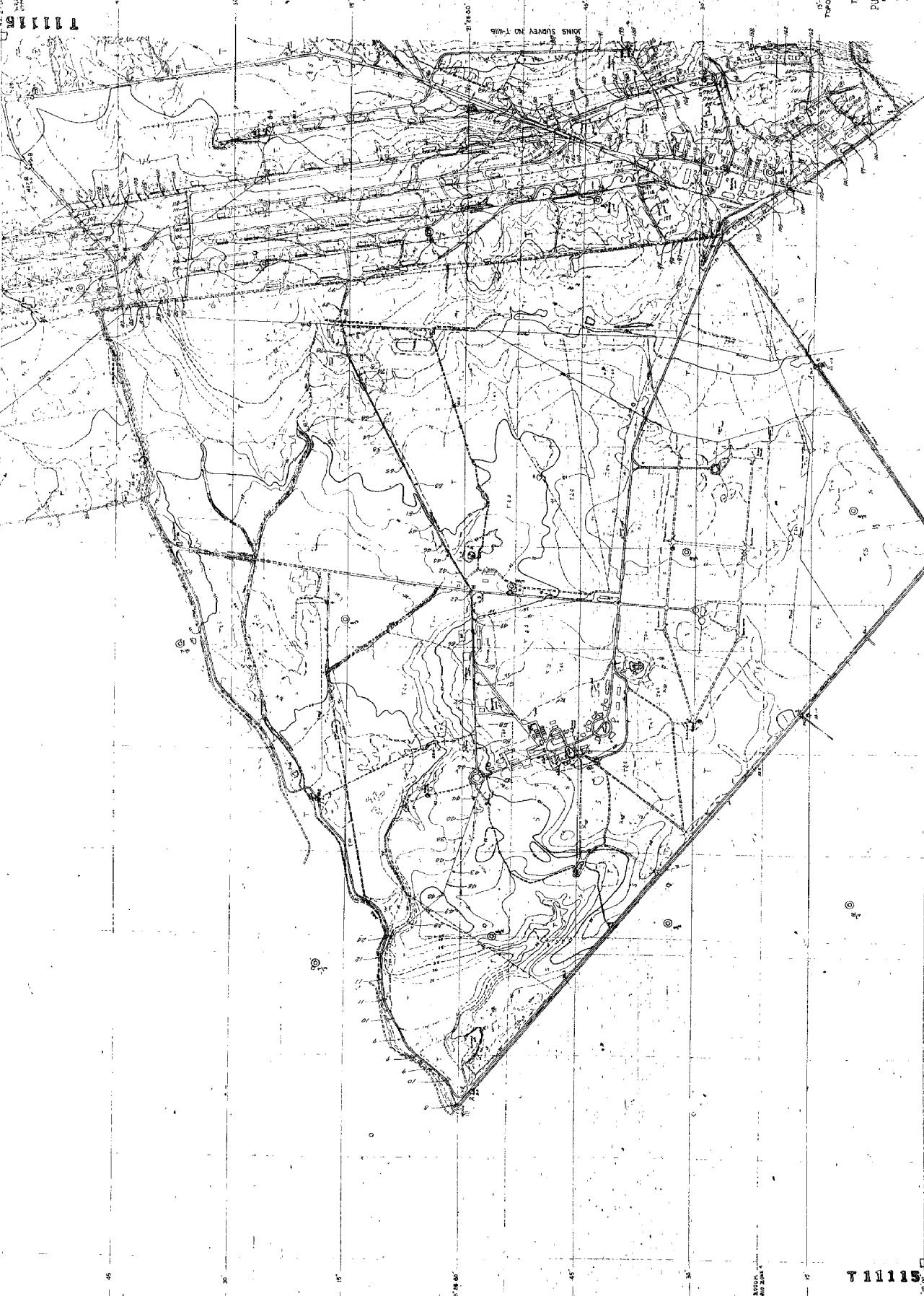
W. J. Williams
W. J. WILLIAMS
By direction



T 11115

JONES SURVEY NO T-1113

T 11115



TOPOGRAPHIC MANUSCRIPT
T-1115
TERRITORY OF HAWAII
LUNDALE, OHIO
P.O. MAIL III
PUBLISHED BY THE
BUREAU OF LAND SURVEY
HONOLULU, HAWAII

T 11115

T 11115

Eng. (11115)