TP-01300

TP-01300

NOAA FORM 76-35
(6-80)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No.	*Edition No.*
TP-01300	1

Job No.
CM-8317

Map Classification
CLASS III FINAL

Type of Survey
SHORELINE

LOCALITY

State
HAWAII

General Locality
BARBERS POINT TO MAKAPUU POINT

Locality
KOKO HEAD

19 86 TO 19

REGISTERED IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP- 01300

MAP EDITION NO. ( )

MAP CLASS III Final

JOB CM PH- 8317

PHOTOGRAMMETRIC OFFICE: Norfolk, VA
Coastal Mapping Unit, Atlantic Marine Center

OFFICER-IN-CHARGE: C. Dale North, Jr.

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH- ____

MAP CLASS ____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
Aerotriangulation - April 3, 1987 Compilation - October 2, 1987	Control - May 17, 1987

II. DATUMS

1. HORIZONTAL: [ ] 1927 NORTH AMERICAN — OTHER (Specify): Old Hawaiian Datum

2. VERTICAL: [X] MEAN HIGH-WATER [ ] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify):

3. MAP PROJECTION: Transverse Mercator Projection

4. GRID(S): STATE: Hawaii; ZONE: 3

5. SCALE: 1:10,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	B. Thornton	April 1987
	LANDMARKS AND AIDS BY	B. Thornton	April 1987
2. CONTROL AND BRIDGE POINTS METHOD: Kongsburg Plotter	PLOTTED BY	B. Thornton	April 1987
	CHECKED BY	D. Norman	April 1987
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	A. Grimes	Dec 1987
	CHECKED BY	F. Mauldin	Dec 1987
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:10,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	A. Grimes	Dec 1987
	CHECKED BY	F. Mauldin	Jan 1988
METHOD: Smooth Draft	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	A. Grimes	Dec 1987
	CHECKED BY	F. Mauldin	Jan 1988
5. OFFICE INSPECTION PRIOR TO ~~XXXXXXXX~~ Final Review	BY	F. Mauldin	Jan 1988
6. APPLICATION OF FIELD EDIT DATA	BY	NA	
	CHECKED BY	NA	
7. COMPILATION SECTION REVIEW Class III	BY	F. Mauldin	Jan 1988
8. FINAL REVIEW Class III	BY	L.O. Neterer, Jr.	Mar 1989
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L.O. Neterer, Jr.	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	June 1989
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY		

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-01300

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC 10(B) (B=152.21mm)

TIDE STAGE REFERENCE
- [ ] PREDICTED TIDES
- [X] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: 7th Hawaii-Aleutian
MERIDIAN: 150°W
- [X] STANDARD
- [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
86B(C)C099-C100	03-09-86	03:35	1:30,000	1.3 ft above MLLW
86B(C)C103-C105	03-09-86	03:43	1:30,000	1.3 ft above MLLW
				Mean Tide Tange = 1.5 ft

REMARKS
Stage of tide for all photographs was based on reference station records for the staff at Honolulu, Hawaii.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the above listed compilation/bridging photographs using stereo instrument methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

There was no mean lower low water line compiled on this map.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	No survey	No survey	TP-01302 (1:5,000)

REMARKS

☆U.S.GOVERNMENT PRINTING OFFICE: 1985-564-007

NOAA FORM 76-36C
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-01300

HISTORY OF FIELD OPERATIONS

I. [X] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Fredrick	Nov 1986
2. HORIZONTAL CONTROL	RECOVERED BY	M. McEwen	Nov 1986
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	M. McEwen	Nov 1986
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	NA	
	LOCATED *(Field Methods)* BY	NA	
	IDENTIFIED BY	NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Photo identified

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME
86B(C)C099	Makapuu Point Light, 1927
86B(C)C097	Kuapa, 1928
86B(C)C099	Makapuu Point RM3, 1872

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME
86B(C)C099	MAKAPUU POINT LIGHT, 1927

PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*

3 Forms C&GS 152
2 Forms 76-86
4 Forms 76-52

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36D
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-01300

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	Jan 1988	Class III Manuscript		
Final Review	Mar 1989	Class III Final Map	May 1989	May 1989

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

pages NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		May 1989	Charted landmarks and aids to navigation form

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

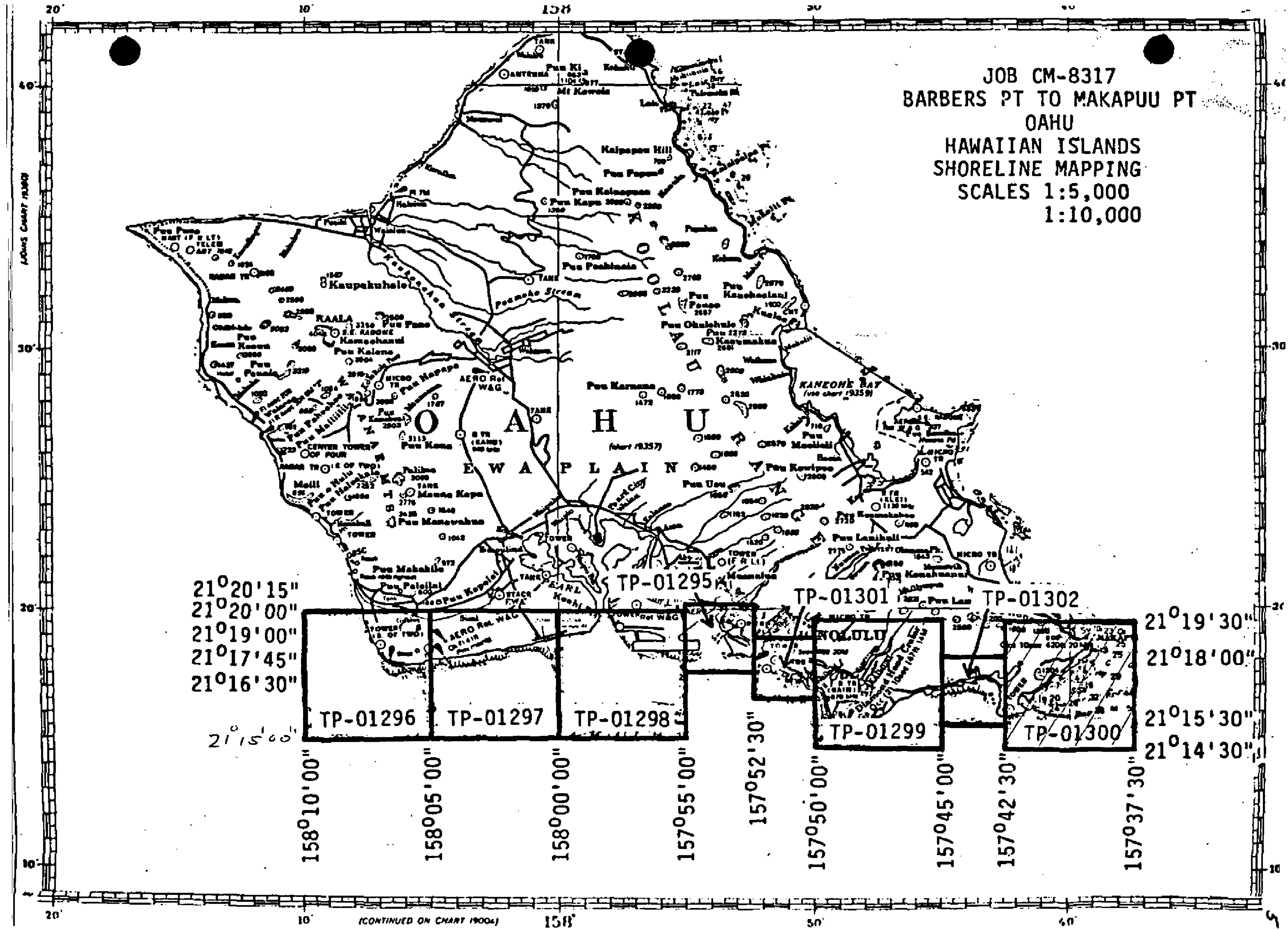
III. FEDERAL RECORDS CENTER DATA

1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

☆ U.S. GPO: 1977-765-092/1106 Region 6


JOB CM-8317
BARBERS PT TO MAKAPUU PT
OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000
TP-01295
TP-01296
TP-01297
TP-01298
TP-01299
TP-01300
TP-01301
TP-01302
21°20'15"
21°20'00"
21°19'00"
21°17'45"
21°16'30"
21°15'00"
21°19'30"
21°18'00"
21°15'30"
21°14'30"
158°10'00"
158°05'00"
158°00'00"
157°55'00"
157°52'30"
157°50'00"
157°45'00"
157°42'30"
157°37'30"
O A H U
KOOLAU R
EWA PLAIN
KANEOHE BAY
(CONTINUED ON CHART 19004)

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01300

This 1:10,000 scale map is one of eight maps in Project CM-8317, Barbers Point to Makapuu Point, Oahu, Hawaii. The project extends from longitude 157 37' 30" to longitude 158 10' 00" along the southern coastline of the island of Oahu.

Photographic coverage was provided in March 1986 with color film at 1:30,000 scale using a Wild RC 8 "B" camera (focal length 152.21 millimeters).

Field work prior to compilation was accomplished during November 1986. It consisted of photoidentification of the horizontal control stations to satisfy aerotriangulation requirements.

Analytic aerotriangulation was performed at the Washington Science Center in April 1987.

Compilation was performed at the Atlantic Marine Center, from office interpretation of the 1:30,000 scale color photography in January 1988.

Final review was accomplished at the Atlantic Marine Center in March 1989. A Chart Maintenance Print for the Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded.

This map is to be registered as a Class III, Final Map.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.

AEROTRIANGULATION REPORT
CM-8317
BARBERS PT. TO MAKAPUU PT.
OAHU, HAWAII

APRIL 1987

21. AREA COVERED

This shoreline mapping project covers the southern part of the island of Oahu, Hawaii, from Barbers Pt. to Makapuu Pt. There are five sheets at 1:10,000 scale and three sheets at 1,5,000 scale that cover the job area. The sheets are numbered TP-01295 through TP-01302.

22. METHOD

Two strips of 1:30,000-scale photographs: 86-B-C052 to C063, 86-B-C092 to C100, and two strips of 1:15,000-scale photographs: 86-B-C113 to C122, 86-B-C131 to C141 were bridged by analytical aerotriangulation methods and adjusted to ground using photo-identified field control. Office identified intersection stations were used as checks.

Compilation points were placed on four additional strips of photographs not used for bridging:

86-A-C002 to C004	1:30,000 scale
86-B-C103 to C105	1:30,000 scale
86-B-C072 to C077	1:15,000 scale
86-B-C084 to C086	1:15,000 scale

Tie points were used to ensure adequate junctions of all strips and were used as supplemental control.

Ratio values were determined for the bridging, and where needed, compilation photographs.

A magnetic tape was generated for plotting base manuscripts on the Kongsburg plotter. Bridged points were based on the Hawaiian Islands, Zone 3 Coordinate System and referenced to the Transverse Mercator projection.

Two each of the eight base manuscripts have been ruled as per Aerotriangulation Instructions.

23. ADEQUACY OF CONTROL

The control for this project is adequate for the job and meets the National Ocean Service's requirements. A listing of closures to control is attached.

24. SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging.

25. PHOTOGRAPHY

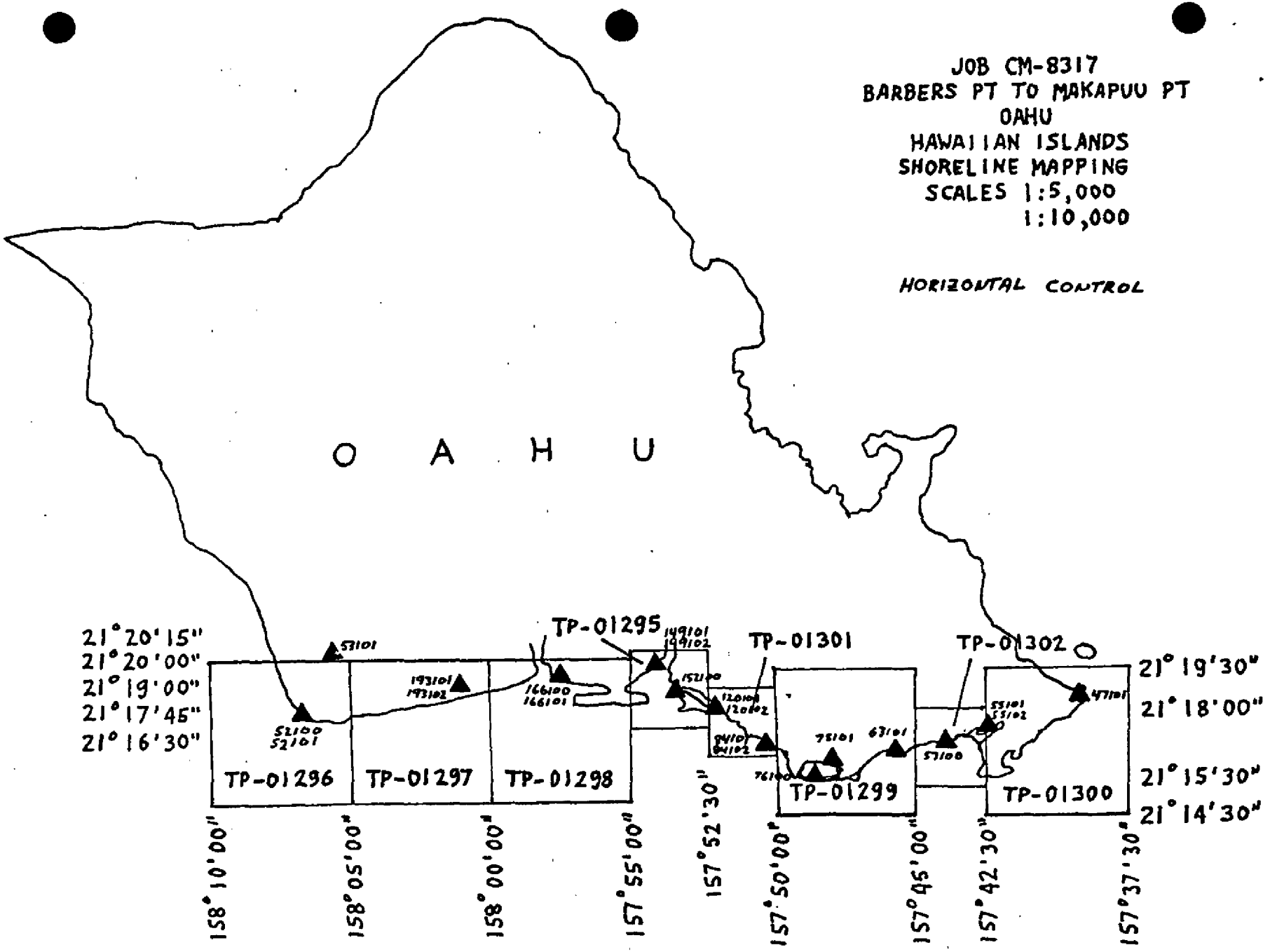
The coverage, overlap, and quality of the photographs were adequate for the job.

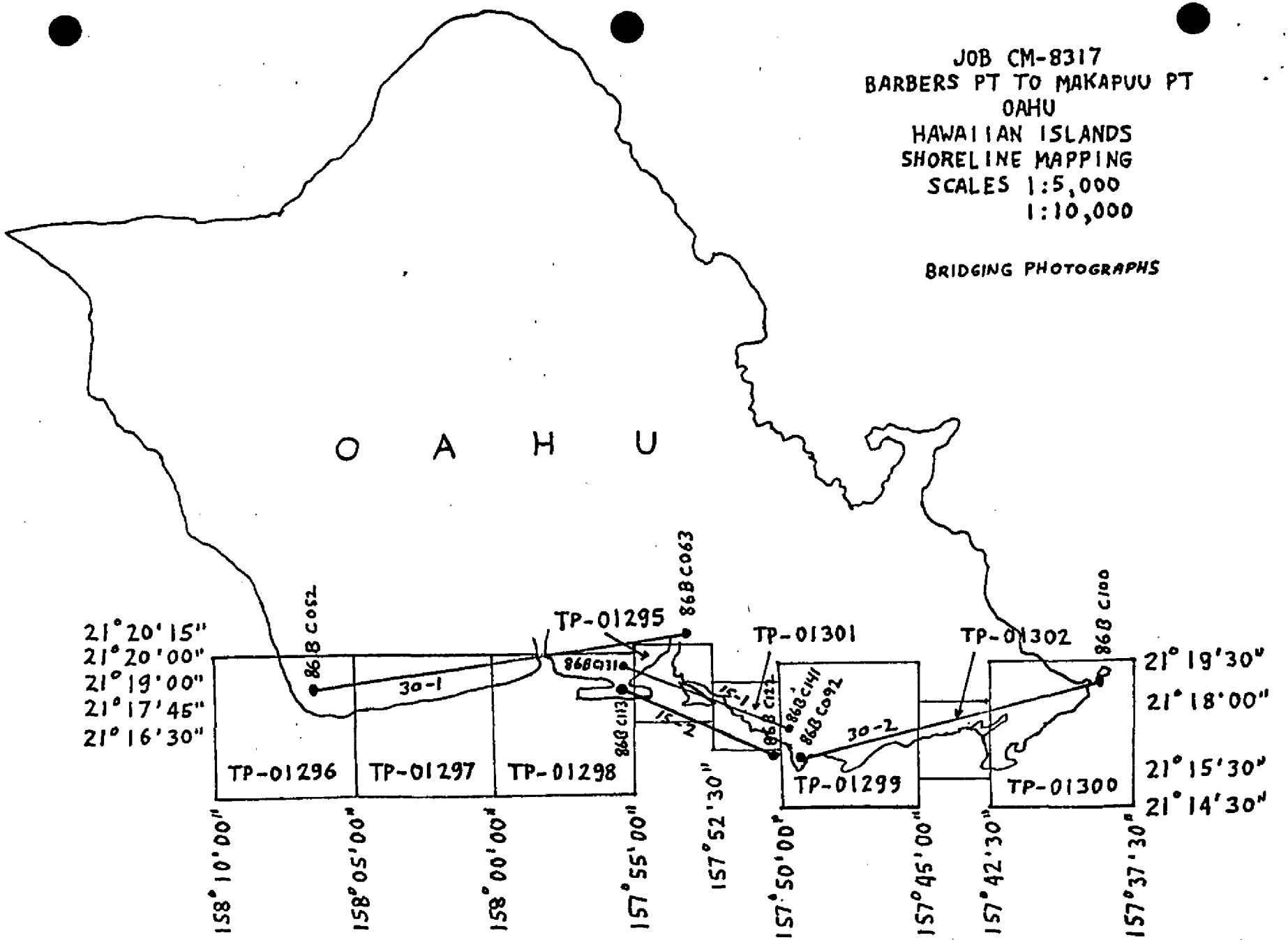
Submitted by:

Brian Thornton

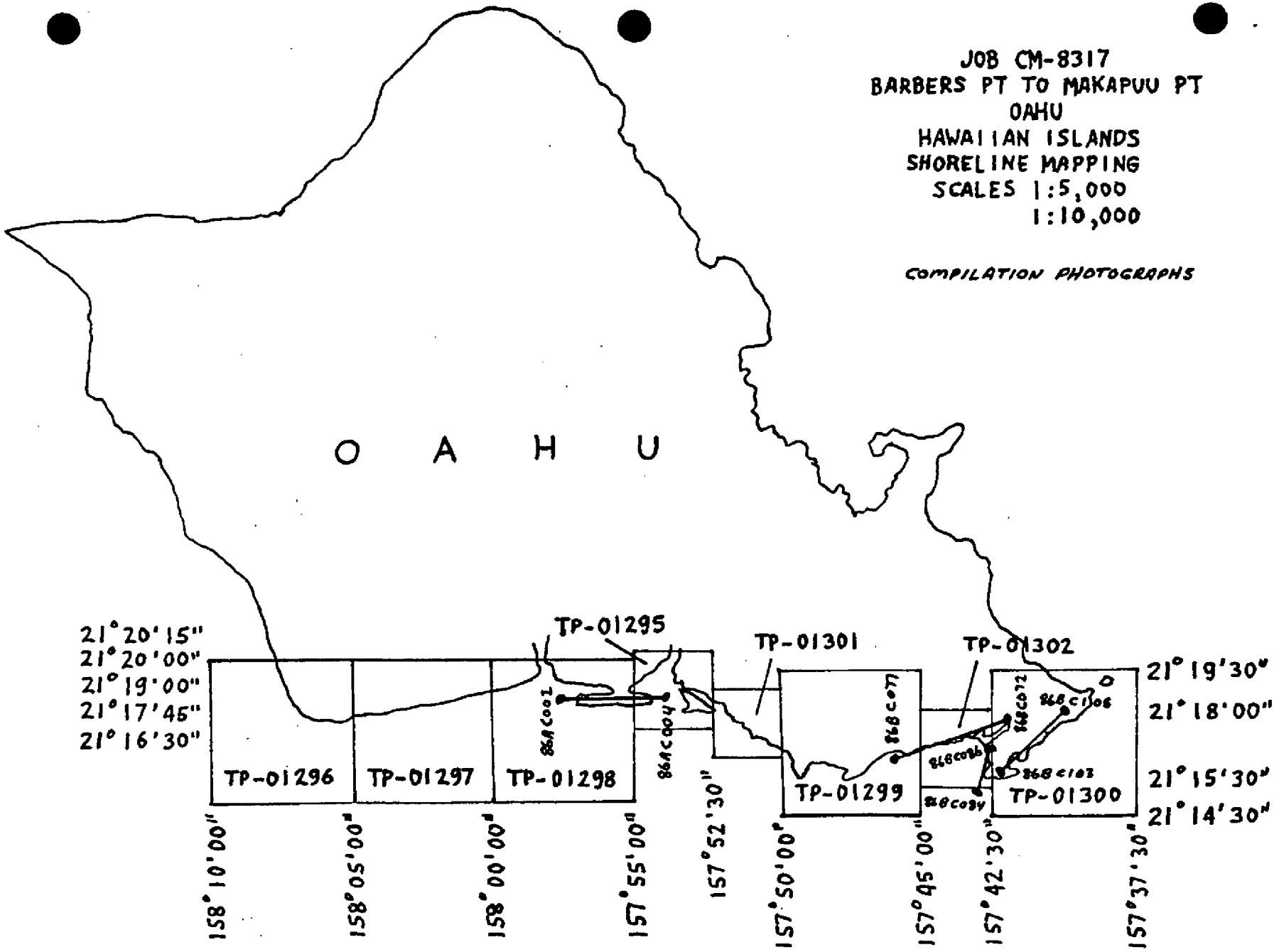
Approved and Forwarded:

Don O. Norman
Chief, Aerotriangulation Unit


JOB CM-8317
BARBERS PT TO MAKAPUU PT
OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000
HORIZONTAL CONTROL
O A H U
TP-01295
TP-01301
TP-01302
TP-01296
TP-01297
TP-01298
TP-01299
TP-01300
21°20'15"
21°20'00"
21°19'00"
21°17'45"
21°16'30"
21°19'30"
21°18'00"
21°15'30"
21°14'30"
158°10'00"
158°05'00"
158°00'00"
157°55'00"
157°52'30"
157°50'00"
157°45'00"
157°42'30"
157°37'30"


JOB CM-8317
BARBERS PT TO MAKAPUU PT
OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000
BRIDGING PHOTOGRAPHS
O A H U
868 C052
868 C063
868 C100
868 C111
868 C113
868 C121
868 C141
868 C092
TP-01295
TP-01301
TP-01302
30-1
30-2
TP-01296
TP-01297
TP-01298
TP-01299
TP-01300
21°20'15"
21°20'00"
21°19'00"
21°17'45"
21°16'30"
21°19'30"
21°18'00"
21°15'30"
21°14'30"
158°10'00"
158°05'00"
158°00'00"
157°55'00"
157°52'30"
157°50'00"
157°45'00"
157°42'30"
157°37'30"

01


JOB CM-8317
BARBERS PT TO MAKAPUU PT
OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000
COMPILATION PHOTOGRAPHS
O A H U
TP-01295
TP-01301
TP-01302
TP-01296
TP-01297
TP-01298
TP-01299
TP-01300
21°20'15"
21°20'00"
21°19'00"
21°17'45"
21°16'30"
21°19'30"
21°18'00"
21°15'30"
21°14'30"
158°10'00"
158°05'00"
158°00'00"
157°55'00"
157°52'30"
157°50'00"
157°45'00"
157°42'30"
157°37'30"

FIT TO CONTROL

△ = Control point held in adjustment

□ = Tie point held in adjustment

STRIP #30-1

	STATION NAME	POINT NO.	VALUES IN FEET X	Y
	Barbers Pt. Lighthouse New, 1933	52100	-0.9	-1.6
△	Barbers Pt. Lighthouse Sub Pt. 1A	52101	-1.0	0.6
△	State Survey 9-3, 1969 Sub Pt. 1B	53101	1.1	-1.1
	Barbers Pt. NAS Base Control Twr. Beacon	226110	-2.2	0.2
	30188, 1973 Sub Pt. 2A	193101	-4.6	-5.2
△	30188, 1973 Sub Pt. 2B	193102	-1.1	-1.7
	Ft. Kamehameha Flagstaff, 1925	166100	2.0	1.0
	Ft. Kamehameha Flagstaff Sub Pt. 3A	166101	1.3	3.4
	Pearl Harbor Water Tank B, 1925	188110	-1.4	-0.2
	Pearl Harbor Escape Training Tower	181110	-0.7	4.7
	Honolulu Inter. Airport Control Twr. Beacon '64	158110	-1.0	0
	Honolulu Moanalua Water Tank, 1957	183110	-1.7	2.2
	Aliamanu Honolulu Board of Water Supply Tank, '69	184110	-0.7	-0.7
△	State Survey 1-13, 1969 Sub Pt. 4A	149101	1.7	0.4
△	State Survey 1-13, 1969 Sub Pt. 4B	149102	-2.0	-1.6

STRIP #30-2

△	State Survey 3-5, 1969 Sub Pt. 7A	75101	2.8	-2.0
	Diamond Head Lighthouse, 1925	76100	3.8	-8.5
	Honolulu Sac. Heart Acad. Cross	89110	-3.0	1.7
	Tie from Strip #15-1	140801	-3.2	2.5
□	Tie from Strip #15-1	140802	-2.0	2.5
	Tie from Strip #15-1	140803	-1.8	2.6

△ State Survey 3-6, 1969 Sub Pt. 8A	63101	2.8	0
NIU Water Tank, 1963	57100	-2.4	-1.8
△ Kuapa, 1928 Sub Pt. 9A	55101	-2.8	0.8
Kuapa, 1928 Sub Pt. 9B	55102	-4.7	-3.0
△ Makapuu Pt. 1872 RM3 Sub Pt. 10A	47101	1.6	0.3
Makapuu Pt. 1872 RM3	47110	3.5	-1.2
Makapuu Pt. Light, 1927	47120	4.1	-1.5

STRIP #15-1

□ Tie from Strip #30-1	63801	0.1	-0.8
	63802	1.4	-1.0
□	63803	1.0	-1.8
△ State Survey 1-13 Sub Pt. 4A	149101	-0.3	0.7
△ State Survey 1-13 Sub Pt. 4B	149102	-0.2	2.4
△ Sand Island S. Base, 1927 Sub Pt. 5A	120101	-0.7	1.0
△ Sand Island S. Base, 1927 Sub Pt. 5B	120102	0	-1.7
△ DeRussy, 1927 Sub Pt. 6A	84101	1.2	0.7
△ Sub Pt. 6B	84102	-1.1	-0.5

STRIP #15-2

Tie from Strip #15-1	113801	-0.1	0.7
□ Tie from Strip #15-1	113802	-0.1	0.3
Sand Island S. Base, '27 Sub Pt. 5A	120101	-2.4	-0.4
△ Sand Island S. Base, '27 Sub Pt. 5B	120102	0.6	-1.5
Honolulu Kewald Basin KGU Twr.	118115	-0.5	0
Tie from Strip #15-1	118801	-2.0	2.0
Tie from Strip #15-1	118802	-2.2	1.8
Tie from Strip #15-1	118803	-1.8	2.1
△ DeRussy, 1927 Sub Pt. 6A	84101	-0.7	0.6
DeRussy, 1927 Sub Pt. 6B	84102	-2.1	-0.1
Honolulu Kaiser Hotel KHVH Twr. '57	120120	-2.5	0
Tie from Strip #15-1	120801	-2.0	-0.1
Tie from Strip #15-1	120802	-1.0	0.6
□ Tie from Strip #15-1	120803	-1.2	1.8
Tie from Strip #15-1	121801	-0.8	2.0
Tie from Strip #15-1	121802	-1.5	1.3
Tie from Strip #15-1	121803	0.1	1.9
□ Tie from Strip #30-2	93801	1.4	-1.2
Tie from Strip #30-2	93802	0.6	-3.9

RATIO VALUES
CM-8317

1:30,000-scale color bridging photographs:

86-B-C052 to C063 Ratio 3.118
86-B-C092 to C100 Ratio 3.132

1:15,000-scale color bridging photographs:

86-B-C131 to C141 Ratio 3.112
86-B-C113 to C122 Ratio 3.104

1:30,000-scale color compilation photographs:

86-A-C002 to C004 Ratio 3.100

1:15,000-scale color compilation photographs:

86-B-C072 to C077 Ratio 3.100
86-B-C084 to C086 Ratio 3.100

NOAA FORM 76-41
(6-75)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-01300	CM-8317	Old Hawaiian Datum	Coastal Mapping Unit, Norfolk,VA AMC

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Hawaii ZONE 3	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
MAKAPUU POINT LIGHT, 1927	Quad 211573 Sta 1061	47120	x=	φ 21° 18' 47.004"	
			y=	λ 157° 39' 08.944"	
KUAPA, 1928	Quad 211573 Sta 1077	55100	x=	φ 21° 17' 32.789"	
			y=	λ 157° 42' 28.173"	
MAKAPUU POINT RM3, 1872	Quad 211573 Sta 1057	47110	x=	φ 21° 18' 41.093"	
			y=	λ 157° 39' 20.437"	
MAKAPUU POINT, 1872	Quad 211573 Sta 1057	47100	x=	φ 21° 18' 41.463"	
			y=	λ 157° 39' 20.196	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY A. Grimes	DATE 12-23-87	LISTING CHECKED BY F. Mauldin	DATE 1-7-88
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

51

COMPILATION REPORT

TP-01300

31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:30,000 scale bridging/compilation color photographs.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate. There were no mean lower low water infrared photographs for this project.

32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated April 1987.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from office interpretation of the bridging/compilation photographs. The shoreline compiled was the visible line of contact between land features and the water surface at the time of photography.

There was no mean lower low water line compiled on this map.

36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:30,000 scale bridging/compilation color photographs as described in item #31.

37. LANDMARKS AND AIDS:

There are two charted landmarks and seven charted aids to navigation within the limits of this map. Among these, two landmarks and five aids were located/verified photogrammetrically.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following U.S. Geological Survey Quadrangles:

Koko Head, Hawaii; dated 1983; scale 1:24,000

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

19013; 13th edition; dated February 12, 1983; scale 1:675,000
19357; 17th edition; dated October 15, 1983; scale 1:80,000
19358; 16th edition; dated October 20, 1984; scale 1:20,000

TP-01300

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert L. Grimes III
Cartographic Technician
December 23, 1987

Approved:

James L. Byrd, Jr.
Chief, Coastal Mapping Unit

FEB - 8 1988
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GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8317 (Oahu, Hawaii)

TP-01300

Halona Point

Hanauma Bay

Hawaii Kai

Kahauloa

Kaihuokapuaa

Kaiwi Channel

Kaloko

Kaohikaipu Island

Koko Crater

Koko Head

Kuapa Pond

Makapuu Head

Makapuu Point

Oahu

Pacific Ocean

Paioluolu Point

Palea Point

Approved:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT
SHORELINE

TP-01300

61. GENERAL STATEMENT

See Summary included with this Descriptive Report.

The Office Instructions were executed as indicated in paragraph 2.1 with reference to the Old Hawaiian horizontal datum. Reference to the horizontal North American Datum 1927 in paragraphs 4.5 and 4.6 of the Aerotriangulation Instructions and paragraphs 2.6 and 5.2.3 of the Office Instructions were inapplicable and were ignored.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following USGS quadrangle:

KOKO HEAD, HAWAII, dated 1983, scale 1:24,000

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There are no contemporary hydrographic surveys within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following nautical charts:

19013, 13th edition, dated February 12, 1983, scale 1:675,000
19357, 17th edition, dated October 15, 1983, scale 1:80,000
19362, 10th edition, dated November 10, 1982, scale 1:20,000.

TP-01300

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:
Lowell O. Neterer, Jr.
Final Reviewer
March 1989

Approved for Forwarding:
Billy H. Barnes
Chief, Quality Assurance Group

Approved:

Chief, Photogrammetric Production Section

Chief, Photogrammetry Branch

CARTOGRAPHIC FEATURES OF POSSIBLE LANDMARK VALUE LISTING

PROJECT: CM-8317

MAP NUMBER (Scale); Locality: TP-01300; 1:10,000; Barbers Point to Makapuu Point, Oahu, Hawaii

GEODETIC DATUM: Old Hawaiian Datum

The following cartographic features have been identified as being of possible landmark value. These features have been identified and measured during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

FEATURE DESCRIPTION	NCD CC	GEOGRAPHIC POSITION -'-" LATITUDE	LONGITUDE	NCD Q.C.	DATE OF LOCATION
BUILDING (VORTAC)	086	21 16 5.70	157 42 20.70	7	03-09-86
TANK	086	21 17 36.90	157 42 19.30	7	03-09-86
MAKAPUU POINT LIGHT	139	21 18 47.00	157 39 08.94	3	03-09-86
MAKAI CHANNEL DAYBEACON 3	767	21 19 20.50	157 40 13.30	7	03-09-86
DAYBEACON 4	224	21 19 21.70	157 40 14.40	7	03-09-86
DAYBEACON 5	767	21 19 18.10	157 40 15.50	7	03-09-86
DAYBEACON 7	767	21 19 19.70	157 40 17.50	7	03-09-86

Listing approved by: Lowell Ohlund — FINAL REVIEWER

April 13, 1988 — DATE

FORM C&GS-8352
(3-28-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____________

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. *In "Remarks" column cross out words that do not apply.*
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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