

#### NOAA FORM 76-35 (6-80)

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

# DESCRIPTIVE REPORT

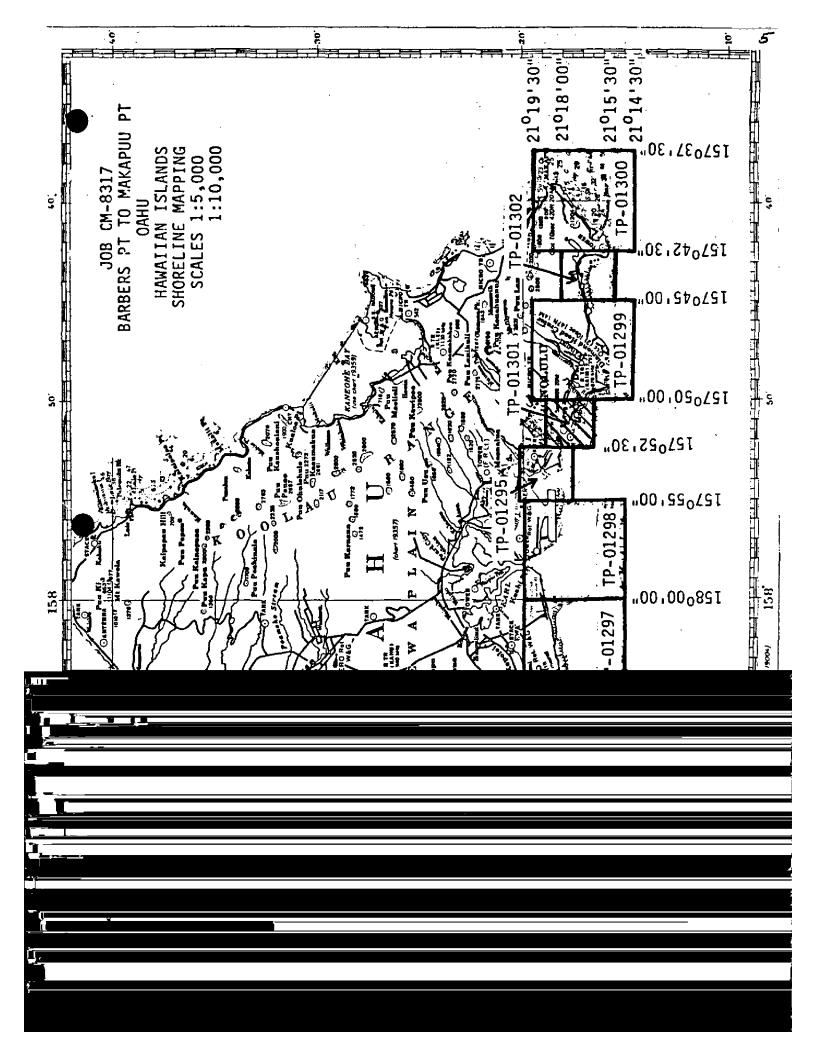
THIS FIELD EDITION WILL NO	T BE FIELD EDITED
Map No.	Edition No.
TP-01301	1
Job No.	
CM-8317	
Map Classification	
CLASS III FINAL	
Type of Survey	
SHORELINE	
LOCALITY	•
State	
IIAWAH	
General Locality	
BARBERS POINT TO MAKAPUU POIN	NT
Locality	
HONOLULU	
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· <b>19</b> 86 TO 19	

	NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 01301	l
. 4		ORIGINAL	MAPEDITION NO. (1)	
1.4	DESCRIPTIVE DEPORT DATA DECORD	RESURVEY	MAP CLASS Final III	
	DESCRIPTIVE REPORT - DATA RECORD	_		
	PHOTOGRAMMETRIC OFFICE	REVISED	JOB CM PH. 8317	
	Coastal Mapping Unit, Atlantic Marine Center	· — — — — — — — — — — — — — — — — — — —	ING MAP EDITION	l
	Norfolk, VA	TYPE OF SURVEY	JOB PH	1
	OFFICER-IN-CHARGE	ORIGINAL  RESURVEY	MAP CLASSSURVEY DATES:	
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	C. Dale North, Jr.	L	, <u></u>	1
	I. INSTRUCTIONS DATED		, FIELD	┨
	1. OFFICE			1
	Aerotriangulation - April 3, 1987	Control - May	17. 1987	ĺ
	Compilation - October 2, 1987		,	1
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NOAA FORM 76-36B							U.	S. DEPA	RTMENT	OF COMMERCE
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2. SOURCE OF MEA						<del></del>				
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4. CONTEMPORARY	HYDROGRA	PHIC SUI	RVEYS (List	only those s	urveys th	et are sources	for photogra	mmetric s	urvey in	lormation.)
SURVEY NUMBER	DATE(S)		SURVEY CO	PY USED	SURVE	YNUMBER	DATE(S)		SURVEY	COPY USED
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5. FINAL JUNCTION	is									
NORTH		EAST			SOUTH			WEST		
No survey		TP-01	299 (1:1	(000,0	No	survey		TP	-0129	5
REMARKS										

(3-72)	TP-01.301		NIC AND ATMOSPHERI	ENT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY
	HISTORY OF FIELD			
I. XX FIELD HISHESTISK	OPERATION FIEL	D EDIT OPERATION	ı	
	OPERATION		NAME	DATE
1. CHIEF OF FIELD PART	ry	J. Fredrick		Nov 1986
	RECOVERED BY	M. McEwen	<del></del>	Nov 1986
2. HORIZONTAL CONTRO	L ESTABLISHED BY	NA		
	PRE-MARKED OR IDENTIFIED BY	M. McEwen		Nov 1986
	RECOVERED BY	NA		ļ
3. VERTICAL CONTROL	ESTABLISHED BY	NA		<del> </del>
	PRE-MARKED OR IDENTIFIED BY	NA		
	RECOVERED (Triangulation Stations) BY	NA_		<u> </u>
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	NA		<del> </del>
	TYPE OF INVESTIGATION	NA	<del> </del>	<del> </del>
E CECEBARUIC NAMES	COMPLETE	1		
5. GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	NA		
7. BOUNDARIES AND LIMI		NA		
II. SOURCE DATA				
1. HORIZONTAL CONTRO Photo identifie	L IDENTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
- FROTO NOMBER	3131101011131111	PHOTO HOMALK	2.47.4	,
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86B(C)C044   SANI	D ISLAND SOUTH BASE		}	
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			·	
2 BUOTO NUMBERS (CI.	261-424-46 4-441-4	<u> </u>	<u> </u>	
3. PHOTO NUMBERS (Clar	mication of details)			
None				
None 4. LANDMARKS AND AIDS	TO NAVIGATION IDENTIFIED		<del></del>	
None	•			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
		1	}	
5 GEAGRADUS "****	Figure 100 con-	4 Boules By	D (MITE)	<b></b>
5. GEOGRAPHIC NAMES: 7. SUPPLEMENTAL MAPS	REPORT NONE	6. BOUNDARY AN	ID LIMITS: REPO	RT V NONE
None	··· · •···•			
8. OTHER FIELD RECORD	DS (Sketch books, etc. DO NOT list data submi	itted to the Geodesy D	livision)	
3 Forms C&GS 152		-		
2 Form 76-86				
5 Form 76-52				
5 Form 76-91				

	DRM 76-36D		N	ATIONAL OC	U. S	DEPARTME	ENT OF COMMERCE
(3-72)			TP-01301		PD(1100	I Myeri,	o nominio i i.i
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I. MANUS	CRIPT COPIES						
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ļ	DATA COMPILED	DATE	RE	EMARKS	MAH	INE CHARTS	TROGROSUPPORT
Compila	ation Complete	Dec 1987	Class III	Manuscri	ipt		
Final F	Review	Mar 1989	Class III	Final Ma	ip mai	1989	may 1989
<del></del>	MARKS AND AIDS TO NAVIGA	<del></del>					
	PORTS TO MARINE CHART DI		DATA BRANCH				
Pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMARKS		
2		may 1989	Charted 3	landmarks	and aid	s to nav	rigation form
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						-	
		·				·	
	REPORT TO MARINE CHART REPORT TO AERONAUTICA					FORWARDED	
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1. 🙀 2. 🙀 3. 🗀	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI	SFICATION CARDS;	FORM NOS	S 567 SUBMIT	TTED BY FIEI	LD PARTIES	i.
<b></b>	ACCOUNT FOR EXCEPTION		porty no Elo-Co .	N SECTION	I, NOAA + w.s.	/6-36-0.	
4.	DATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:				<del></del>
IV. SURV	EY EDITIONS (This section s			p edition is re			
SECOND	TP -	JOB NUMBE (2) PH			TÝPE	OF SURVEY	Y ESURVEY
EDITION	DATE OF PHOTOGRAPH	HY DATE OF F	ELD EDIT	] 		AP CLASS	FINAL
_ <del></del>	SURVEY NUMBER	JOB NUMBE	,R	<del></del>		OF SURVEY	
THIRD		(3) PH	TO POIT	4	REVISED	P E RE	ESURVEY
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EDITION				□n.		IV.	DFINAL



# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

#### TP-01301

This 1:5,000 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 1:15,000 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 December 1987.

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:

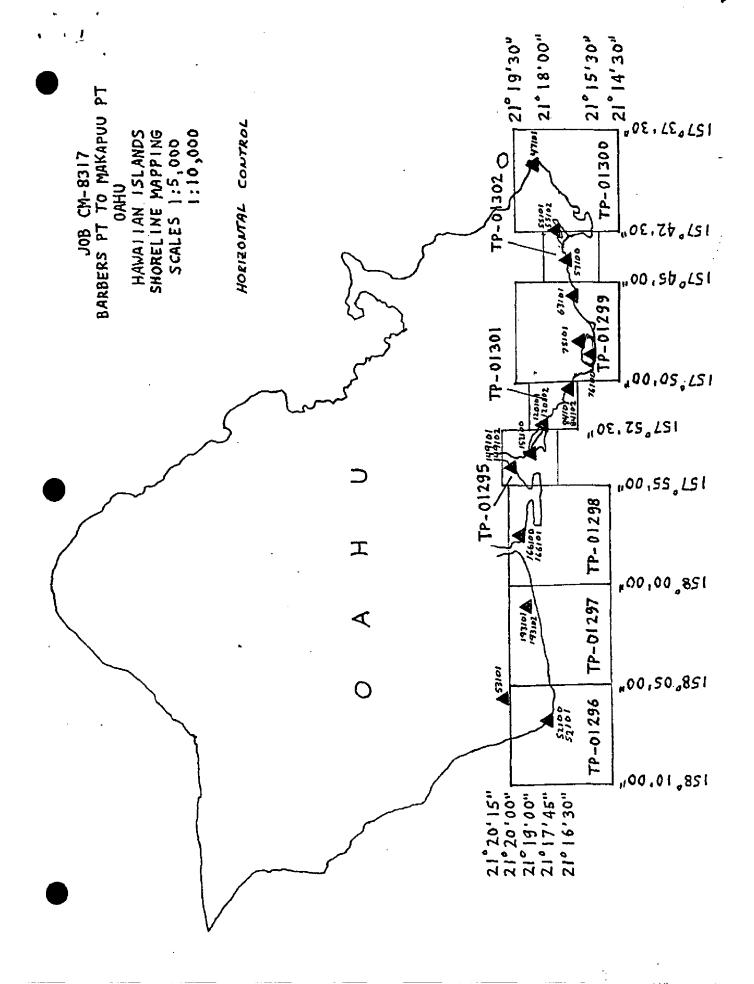
Brian Thornton

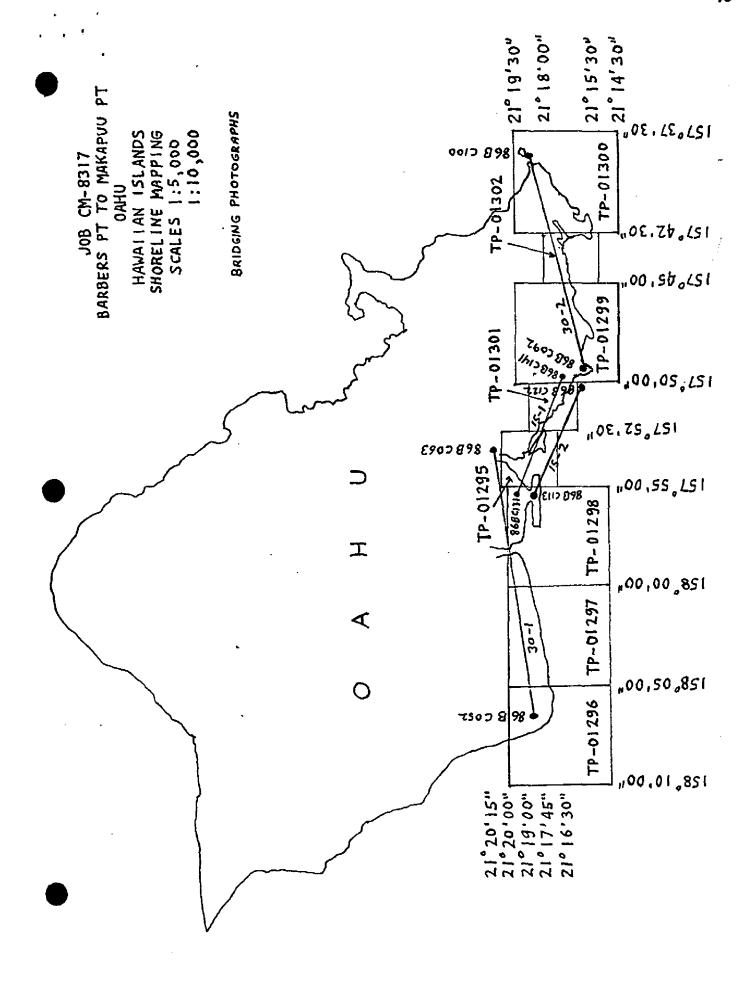
Approved and Forwarded:

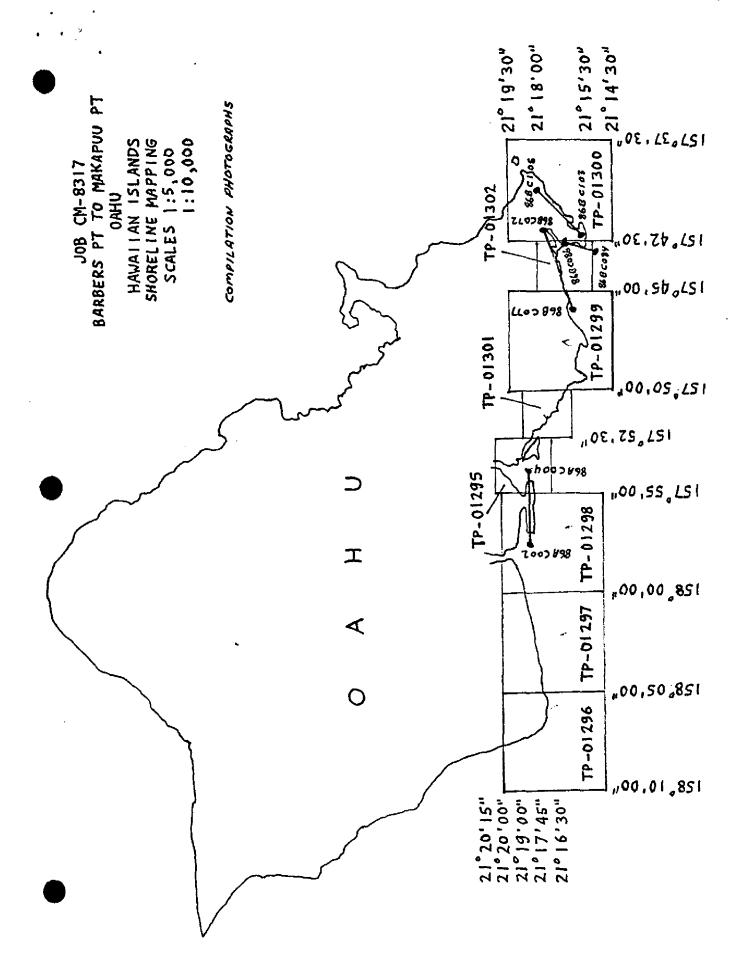
Don O. Norman

Chief, Aerotriangulation Unit

Non O. Horman







# FIT TO CONTROL

 $\triangle$  = Control point held in adjustment  $\Box$  = Tie point held in adjustment

# STRIP #30-1

	STATION NAME	POINT NO.	VALUES IN FEET	
			X	Y
Δ	Barbers Pt. Lighthouse New, 1933 Barbers Pt. Lighthouse Sub	52100	-0.9	-1.6
	Pt. 1A	52101	-1.0	0.6
Δ	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
Δ	30188, 1973 Sub Pt. 2B	193102	-1.1	-1.7
	Ft. Kamehameha Flagstaff, 1925 Ft. Kamehameha Flagstaff Sub	166100	2.0	1.0
	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 Honolulu Moanalua Water Tank,	158110	-1.0	0
	1957	183110	-1.7	2.2
	Aliamanu Honolulu Board of Water Supply Tank, '69	184110	-0.7	-0.7
Δ	State Survey 1-13, 1969 Sub			
Δ	Pt. 4A State Survey 1-13, 1969 Sub	149101	1.7	0.4
	Pt. 4B	149102	-2.0	-1.6
	STRIP #30-2			
Δ	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 Tie from Strip #15-1	140801 140802	-3.2 -2.0	2.5
	Tie from Strip #15-1	140802	-1.8	2.5 2.6
	ografe (144 a		4.0	4.0

∆ State Survey 3-6, 1969     Sub Pt. 8A     NIU Water Tank, 1963     ∆ Kuapa, 1928 Sub Pt. 9A     Kuapa, 1928 Sub Pt. 9B     ∆ Makapuu Pt. 1872 RM3 Sub     Pt. 10A     Makapuu Pt. 1872 RM3     Makapuu Pt. Light, 1927	63101 57100 55101 55102 47101 47110 47120	2.8 -2.4 -2.8 -4.7 1.6 3.5 4.1	0 -1.8 0.8 -3.0 0.3 -1.2 -1.5
STRIP #15-1			
☐ Tie from Strip #30-1  ☐ State Survey 1-13 Sub Pt. 4A  △ State Survey 1-13 Sub Pt. 4B  △ Sand Island S. Base, 1927  Sub Pt. 5A  △ Sand Island S. Base, 1927  Sub Pt. 5B  △ DeRussy, 1927 Sub Pt. 6A  △ Sub Pt. 6B	63801 63802 63803 149101 149102 120101 120102 84101 84102	0.1 1.4 1.0 -0.3 -0.2 -0.7	-0.8 -1.0 -1.8 0.7 2.4 1.0 -1.7 0.7 -0.5
Tie from Strip #15-1 □ Tie from Strip #15-1	113801 113802	-0,1 -0,1	0.7 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 84101	~1.8 -0.7	2.1 0.6
△ DeRussy, 1927 Sub Pt. 6A  DeRussy, 1927 Sub Pt. 6B	84101	-0.7 -2.1	-0.1
DENIESS. 177.7 BUILTE. VII	07102	- // - 1	V . 1

# 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-Cl31 to C141 Ratio 3.112 86-B-Cl13 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
		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		
MAP NO. TP-01301	JOB NO. CM-8317		GEODETIC DATUM Old Hawaiian Datum	ORIGINATING ACTIVITY Coastal Mapping	ng Unit, Norfolk, VA
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT	COORDINATES IN FEET STATE Hawaii 3	10	REMARKS
		NO MON	ZONE	A LONGITUDE	
DERUSSY, 1927	Quad 2115/3 Sta 1252 /	84100	χ=	210 161 55	
- 1	1		<i>y</i> =	λ 157° 50' 11.886"~	
`		7 00 00 0	χ=	\$ 21° 18' 09.964" ~	
SAND ISLAND SOUTH BASE, 1927	sta IIU8	001071	y=	λ 157° 52' 22.372" -	
HONOLULU TV STATION KGMB	211573 ~	,	χ=	\$21° 17' 45.946"	
63	Sta 1173	139112	=ħ	• 501	!
HONOLULU KEWALD BASIN	211573		=X	\$\phi\$ 21° 17' 41.049"	
1957	Sta 1189	118115	μħ	λ 157° 51' 49:168"	
HONOLULU KAISER HOTEL	211573 /		-χ-	φ 21° 17' 05.947" ~	
KHVHllOWER, 1957	Sta 1169	120120	πħ		
HONOLULU. ALOHA TOWER, 1925	211573 ✓		-X	φ 21° 18' 36.756" ~	
	Sta 119	126	πħ	λ 157° 52' 07.425" ν	
HONOLULU HAWAII ELEC	211573 /		×= χ=	φ 21° 18' 34.705" ~	
	Sta 1202	126E	= <i>f</i> i	λ 157° 52' 00.256" ∨	
HONOLULU HAWAII ELEC N	211573		=X	φ 21° 18' 32.147" ν	
	5	1201 ~	y=	λ 157° 51' 58.208" ~	
HONOLULU HAWAII ELEC SE	211573 ~	126н 🗸	=X	\$ 21° 18' 31.526" ~	
	Sta 1199		<i>ψ</i> =	λ 157° 51' 57.808" 、	
			= <b>χ</b>	<b>•</b>	
			-fi	Υ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY D. R. Miller		DATE 10/87	LISTING CHECKED BY F. Mauldin	u,	DATE 12/9/87
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	RSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.	

NOAA FORM 76-41		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	AMC AMC
TP-01301	CM-8317		Old Hawaiian Datum	Coastal Mapping	Unit,
	SOURCE OF	AEROTRI-	COORDINATES IN FEET		8 4 4 2 1 1 1 1
A SEAN TO SEAN	INFORMATION (Index)	POINT NUMBER		A LONGITUDE	
HONOLULU NEW INCINERATOR	211573 /		=χ	φ 21° 17' 48.254" ~	
STACK, 1964	Sta 1187	116	=ħ	λ 157° 51' 52.162" ~	
HONOLULU HAWAII ELEC SW	211573		<i>-</i> χ	φ 21° 18' 33.092" <sup>ν</sup>	
STACK, 1955	Sta 1200		-ĥ	52	
			χ=	ф	
			ď=	۲	
			χE	ф	
			ĥ=	γ	
			χ=	ф	
			ıβ	Y	
			-χ	ф	
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY D. R. Miller		DATE 10/87	LISTING CHECKED BY F. Mail	ri.	DATE 12/9/87
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	H 19 OBSOLETE.	

#### COMPILATION REPORT

#### TP-01301

#### 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 1:15,000 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 this 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 1:15,000 scale bridging/compilation color photographs as described in item #31.

#### TP-01301

# 37. LANDMARKS AND AIDS:

There are forty-one charted landmarks and eighteen charted aids to navigation within the limits of this map. Among these, twenty-three landmarks and thirteen 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 Quadrangle:

Honolulu, 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 19364; 20th edition; dated January 12, 1985; scale 1:20,000 19367; 33rd edition; dated April 12, 1986; scale 1:5,000

# TP-01301

# ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

# ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

David R. Miller Cartographer December 1, 1987

Approved:

James L. Byrd. Jr.

Chief, Coastal Mapping Unit

# GEOGRAPHIC NAMES

# FINAL NAME SHEET

CM-8317 (Oahu, Hawaii)

TP-01301

Ala Wai Boat Harbor

Ala Wai Canal

Honolulu

Honolulu Harbor

Kewalo Basin

Magic Island

Mamala Bay

Moiliili

Oahu

Sand Island

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division

# REVIEW REPORT SHORELINE

#### TP-01301

#### 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:

HONOLULU, HAWAII, date 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

19364, 20th edition, dated January 12, 1985, scale 1:20,000

19367, 33rd edition, dated April 12, 1986, scale 1:5,000.

#### TP-01301

# 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

Page 1 of 2

NCD

DATE OF

PROJECT: CM-8317

MAP NUMBER (Scale); Locality: TP-01301; 1:5,000; Barbers Point to Makapuu Point, Oahu, Hawaii

GEODETIC DATUM: Old Hawaiian Datum

NCD

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).

GEOGRAPHIC POSITION -'-"

FEATURE DESCRIPTION	CC	LATITUDE LONGITUDE	Q.C.	LOCATION
GRAIN ELEVATOR	_086 ັ	21 18 54.10 157 52 19.90 10 10 10 10 10 10 10 10 10 10 10 10 10	7~	03-09-86
TOWER	086	21 18 51.70 157 52 04.90	7~	03-09-86
ALOHA TOWER	139	21 18 36.76 157 52 07.42	3 5	03-09-86
STACK (NW)	139 <sup>/</sup>	21 18 34.70 157 52 00.26	~ <u>3</u> ~_	03-09-86
STACK (SW)	139 <sup>~</sup>	21 18 33.09 157 52 00.42	3 -	03-09-86
STACK	086	21 18 04.80 157 51 56.20	7	03-09-86
STACK	139	21 17 48.25 157 51 52.16	_ 3	03-09-86
RADIO TOWER	139 ~	21 17 41.09 157 51 49.17	- <sub>3</sub> -	03-09-86
RADIO TOWER	086	21 17 59.50 157 51 32.40	7 ~	03-09-86
BUILDING	086	21 17 45.50 157 50 44.60	7 7	03-09-86
TV TOWER	139	21 17 45.92 157 50 35.85	- 3 آ	03-09-86
RADIO TOWER	086້	21 17 28.10 157 50 19.70°	7 -	03-09-86
CUPOLA	086	21 17 14.90 157 50 28.70	7	03-09-86
BUILDING	086	21 16 53.70 157 50 02.30	7	03-09-86
STACK	086 ~	21 18 31.90 157 51 19.60	7	03-09-86
CUPOLA	086℃	21 18 30.90 157 51 35.60		03-09-86

FLAGSTAFF	086 ~	21 18 31.40 157 51 45.30 7	03-09-86
FLAGPOLE_	_086 <u></u>	<u>21 18 35.60 157 51 41.70 7</u>	03-09-86
BUILDING AT HONOLULU			
(KING STREET)	086	<u>21 18 41.90 157 51 54.10 7</u>	03-09-86
TOWER AT HONOLULU	086	21 18 47.30 157 51 35.70 7	03-09-86
STACK/HAWAII ELEC(N)	<u></u>	<u>21 18 32.15 157 51 58.21 3</u>	<u>03-09-86</u> ′
STACK HAWAII ELEC(SE	E) 139	21 18 31.53 157 51 57.81 3	03-09-86
POLE (LIGHTED) AT KEWALO BASIN	086	21 17 39.10 157 51 42.80 7	7 03-09-86
ALA WAI BOAT HARBOR CHANNEL RANGE FRONT			
LIGHT	208	21 17 27.83 157 50 47.18 4	03-09-86
RANGE REAR LIGHT	209 ~	21 17 30.58 157 50 46.47 4	03-09-86
DAYBEACON 3	767	21 16 58.80 157 50 55.70 7	7 03-09-86
DAYBEACON 4	224	21 16 58.40 157 50 53.60 7	03-09-86
DAYBEACON 5	767	21 17 07.40 157 50 53.50 7	7 03-09-86
DAYBEACON 6	224	21 17 06.80 157 50 51.60 7	03-09-86
DAYBEACON 7	767	21 17 18.90 157 50 50.70 7	03-09-86
DAYBEACON 8	224 ~	21 17 16.40 157 50 49.10 7	7 03-09-86
KEWALO BASIN ENTRANC			ساهه ده ده
RANGE REAR LIGHT	209	21 17 51.95 157 51 36.32 4	03-09-86
RANGE FRONT LIGHT	208	21 17 50.10 157 51 37.80 7	7 <u>03-0</u> 9-86
HONOLULU HARBOR~	200 -	21 17 56 00 157 52 10 22	
ENTRANCE LIGHT CHANNEL RANGE FRONT	200	21 17 56.09 157 52 18.32 4	<u>4 03-09-86</u>
LIGHT	208	21 18 30.42 157 52 05.55 4	1 03 <b>-</b> 09-86
CHANNEL RANGE REAR			- <del> </del>
LIGHT	209	21 18 34.60 157 52 03.30 7	<u>7 03-09-86</u>

Listing approved by:

FINAL REVIŒWER

Spil 13, 1988

#### 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.

		Full Part Before After Verification Review Inspection Signed Via
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