11916

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-6012 Office No. T-11916

LOCALITY

State Hawaii

General locality Maui Island

Locality Puunoa Point

1960-1961

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office
Miller J. Tonkel, Baltimore District Office

LIBRARY & ARCHIVES

DATE 1967

USCOMM-DC 5087

11916

5.00

10/5/00 — 1162

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FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T -11916

PROJECT NO. (II): PH-6012	
FIELD OFFICE (II): Honolulu District Office	CHIEF OF PARTY: H. J. Seaborg
PHOTOGRAMMETRIC OFFICE (III): Baltimore District Office	OFFICER-IN-CHARGE: Miller J. Tonkel
INSTRUCTIONS DATED (II) (III): 14 November 1960 28 November 1960 13 June 1961 27 December 1961 16 January 1962 1 April 1963	
METHOD OF COMPILATION (III): Kelsh Plotter	
MANUSCRIPT SCALE (III): 1:5,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:5,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE: / DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): Old Hawaiian	VERTICAL DATUM (III): ~~MEAN SEA LEVEL EXCEPT AS FOLLOWS:~~ MHW *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): LAINA (HTS 1919) 1931	
LAT.: 20° 53' 57.257"	LONG.: 156° 40' 15.278" / ☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 205,535.25 x = 498,551.43	STATE: Hawaii / ZONE: 2

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.

2.

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): J. C. Lajoye	DATE: 1961-62
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): The mean high water line was located by Kelsh Plotter using the October 5, 1960 photography aided by field inspection notes.	
PROJECTION AND GRIDS RULED BY (IV): RAC	DATE Nov. 1960
PROJECTION AND GRIDS CHECKED BY (IV): JDC	DATE Nov. 1960
CONTROL PLOTTED BY (III): D. M. Brant	DATE April 1961
CONTROL CHECKED BY (III): H. P. Eichert	DATE April 1961
~~RADIAL PLOT~~ OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. A. Kunics	DATE March 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY D. M. Brant	DATE May 1961
CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): L. A. Senasack	DATE Nov. 1961
~~SCRIBING~~ BY (III): Drafting C. A. Lipscomb	DATE Aug. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): J. D. McEvoy	DATE Oct. 1963

REMARKS:

FIELD EDIT - 1962

USCOMM-DC 16276B-P61

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C.& G.S. "W" type camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2356 & 2357	5 Oct. 1960	09:44	1:25,000	0.3 above MLLW
60 W 2595 & 2596	10 Oct. 1960	09:00	1:25,000	0.5 above MHW

From Predicted Tide Tables TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	~~SPRING~~ RANGE
REFERENCE STATION: Honolulu, Hawaii		1.2	1.9
SUBORDINATE STATION: Lahaina		1.3	2.0
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine Center	DATE: January 1966
PROOF EDIT BY (IV):	DATE:

	RECOVERED:	IDENTIFIED:
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	5	3
NUMBER OF BM(S) SEARCHED FOR (II):	None	None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 3

REMARKS:

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for Hydro	12 April 1961	superseded
Shoreline revised	8 Nov. 1961	superseded
Final compilation	June 1963	

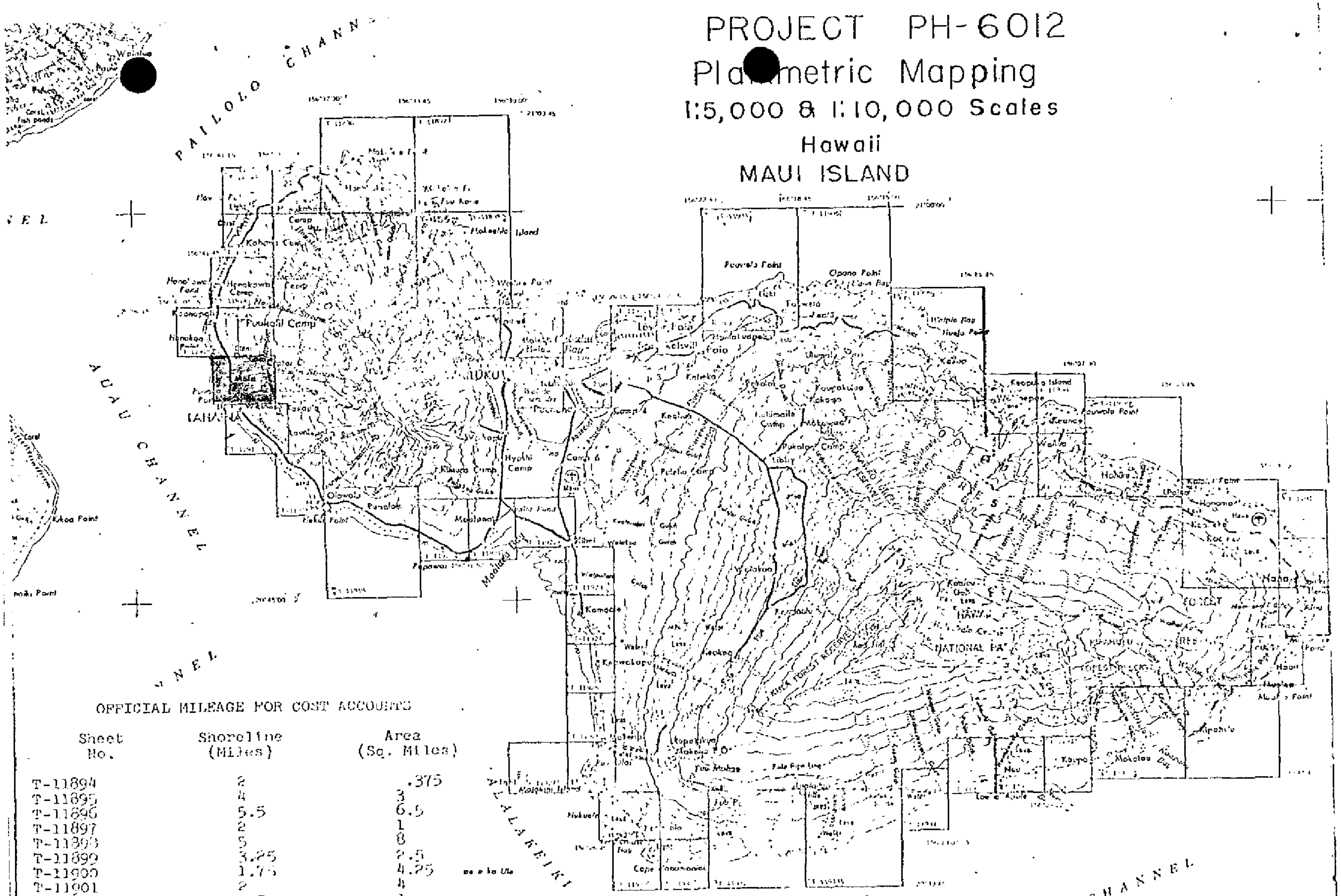
PROJECT PH-6012

Planimetric Mapping

1:5,000 & 1:10,000 Scales

Hawaii

MAUI ISLAND



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11894	2	.375
T-11895	4	3
T-11896	5.5	6.5
T-11897	2	1
T-11898	5	8
T-11899	3.25	2.5
T-11900	1.75	4.25
T-11901	2	4
T-11902	2.5	1
T-11903	2	2
T-11904	5	6
T-11905	4.5	4
T-11906	6.5	10
T-11907	7	7.8
T-11908	5	6
T-11909	4.7	16
T-11910	.75	.25
T-11911	2.7	2
T-11913	27.	3
T-11914	2.2	4.5
T-119[illegible]	2.5	2.2
[illegible]	2.5	4
T-11[illegible]	27	2.6
T-11[illegible]	3	4

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11922	3	3
T-119[illegible]3	2	3
T-119[illegible]4	2.5	2.5
T-119[illegible]5	2.5	1.5
T-11926	2.5	1
T-119[illegible]7	1	.08
T-119[illegible]8		1.5
T-119[illegible]9	4.5	3
T-11930	1.5	[illegible]

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Shoreline (Miles)	Area (Sq. Miles)
T-11931	2.5	1.5
T-11932	4.5	12
T-11933	2	8
T-11934	2.7	3
T-11935	2.5	4
T-119[illegible]	5	4
[illegible]	5	4
[illegible]	5	6
[illegible]	4.5	5

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11916

Shoreline survey T-11916 (1:5,000 scale) is one of 49 similar maps in this project. It covers a part of the shoreline of Maui Island along the northwesterly coast from Latitiude 20° 52' 30" northward to Latitude 20° 54' 22.5".

This was a stereoscopic instrument project in advance of hydrographic surveys to be made in the same area. The Zeiss Stereoplanigraph was used for bridging of control, compilation was by Kelsh Plotter using photography obtained in October 1960.

The field operations preceding compilation included field inspection, recovery and identification of horizontal control and identification of hydro signals. A cronaflex copy of the manuscript along with a set of ratio prints was subsequently provided for hydro support purposes.

The compilation manuscript is a vinylite sheet 01' 52.5" in latitude by 02' 22.5" in longitude. The registered copies of the survey will consist of a cronar film positive and a film negative.

FIELD INSPECTION REPORT
T-11916

Please refer to the Field Inspection Report for Maui Island, Hawaii bound with the Descriptive Report for T-11894.

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD Plotted by_____ Date_____
Checked by_____ Date_____

MAP T-11916 PROJECT NO. PH-6012 SCALE OF MAP 1:5,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
LAINA	P.C.	Old	205,535.25							
(HTS 1919), 1931	17	Hawaiian	498,551.43							
LAHAINA, PIONEER SUGAR MILL, STACK, 1931	P.C. 20	"	199,162.99							
			495,706.49							
LAHAINA LIGHT	Strip6	"	196,865.77							
1961	Comp.		494,958.20							
MALA, BALDWIN PACKERS PINEAPPLE CANNERY STACK, 1950	P.C. 20	"	202,258.93							
			492,901.58							
PAUPAU (HGS)	P.C.	"	202,592.24							
(HTS 1929), 1879	17		508,253.85							

1 FT. = .3048006 METER

COMPUTED BY: J.C. Richter DATE 11 July, 1962 CHECKED BY: D.M. Brant DATE 17 July, 1962

COMM-DC-57843

PHOTOGRAMMETRIC PLOT REPORT

T-11916

Please refer to the Photogrammetric Plot Report for Maui Island, Hawaii dated March 1961 bound with the Descriptive Report for T-11894.

COMPILATION REPORT
T-11916

Please refer to the Compilation Report bound with the Descriptive Report for T-11913 which covers the compilation of map manuscripts T-11913 through T-11918.

T-11916

48. Geographic Names List

Kahoma Stream

Lahaina

Puunoa
Puunoa Point

also: Mala

George M. Bree
Geographic Names Section
19 November 1963

49. NOTES TO THE HYDROGRAPHER

The following hydrographic signal sites, identified by the field inspection party, were located during compilation.

1601	North corner of pier	60 W 2596
1602	Electric pole with guy pole	60 W 2596
1603	North end of south guard rail	60 W 2596

12.

FORM 182 (3-61) 50

PHOTOGRAMMETRIC OFFICE REVIEW

T-11916

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
DMB	DMB	DMB	DMB

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)
DMB	NONE

7. PHOTO HYDRO STATIONS	8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT
DMB	NONE	NONE	DMB

11. DETAIL POINTS: DMB

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
DMB	DMB	DMB	NONE

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES
NONE	DMB	DMB

19. OTHER ALONGSHORE CULTURAL FEATURES: DMB

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER
DMB	DMB
22. PLANETABLE CONTOURS	**23. STEREOSCOPIC INSTRUMENT CONTOURS**
NONE	Inapplicable
24. CONTOURS IN GENERAL	**25. SPOT ELEVATIONS**
Inapplicable	NONE

26. OTHER PHYSICAL FEATURES: DMB

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS
DMB	DMB	NONE

30. OTHER CULTURAL FEATURES: DMB

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NONE	NONE

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS
DMB	DMB

35. LEGIBILITY OF THE MANUSCRIPT	36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT
DMB	DMB	DMB

38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
DMB	DMB

SIGNATURE OF REVIEWER	SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT
For: J. D. Mc Evoy Joseph Steinberg	Joseph Steinberg

40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.

SIGNATURE OF COMPILER	SIGNATURE OF SUPERVISOR
Joseph Steinberg, For: J.D. McEvoy	Joseph Steinberg

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25353-P61

FIELD EDIT REPORT
T-11916

Please refer to the Field Edit Report for Maui Island, Hawaii (strips 1 through 7) dated 17 August 1962 bound with the Descriptive Report for T-11894.

REVIEW REPORT
SHORELINE T-11916

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of Registered Planetable Survey No. 3268. This was a planetable survey made in 1912 and registered on March 30, 1914.

Shoreline manuscript T-11916 supersedes this prior survey and should be used for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Lahaina, Hawaii quadrangle, 1:24,000 scale edition of 1956.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8577, 1:10,000 scale (SU 10-2-61) and H-8581, 1:5,000 scale (SU 5-2-61).

The shoreline for the boat sheet was taken directly from a copy of the map manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with charts 4116, 1:250,000 scale, 12th edition dated August 17, 1964 and with chart 4130, 1:80,000 scale, 4th edition dated August 31, 1964.

The two stacks shown on these charts at Latitude 20° 52' 54" Longitude 156° 40' 00" and Latitude 20° 53' 24" Longitude 156° 41' 15" are not shown on this manuscript as landmarks because of the lack of field data.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Future surveys in the area should determine if the stacks referred to in item 65 are of landmark value.

Reviewed by:

Leo F. Beugnet

Leo F. Beugnet

Approved by:

for J. Hollis

J. Bull, Atlantic Marine Center

Approved:

L. F. Woodcock

Chief, Photogrammetry Division

Charles Thomas

Chief, ~~Cartographic~~ Photogrammetric Branch SGB

Chief, Chart Division

Chief, Operations Division

Form 567
(4-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Maui Hawaii 15 May, 19 63

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by Donald M. Brant

Miller J. Tonkel
Chief of Party.

STATE Hawaii

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	Lahaina Light (LAHAINA LIGHT 1961)		20 52	31.328 963.4	156 40	53.164 1536.7	Old Hawaiian	Triangulation T-1191	6 1961*		X		4116 4130
	G.P. p. 98												

* The date that the aid was verified is unknown.

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and *non-floating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 25412-P61

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11916

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
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8550-P63