

11062

Diag. Cht. No. 5530-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-102 Office No. T-11062
Chart Lt. 568-1954 BP-51534

LOCALITY

State California

General locality Oakland

Locality Oakland Inner Harbor

19 52-53

CHIEF OF PARTY

F. Natella & F.A. Riddell, Party Chief
F. Natella & F.A. Riddell, Portland

Photo. Office.

LIBRARY & ARCHIVES

DATE May 1964

USCOMM-OC 5067

11062

DATA RECORD

Page 2

T - ~~5924~~ (Revision) ~~RS-503~~ T-11062

Project No. (II): Ph-102

Quadrangle Name (IV):

Field Office (II): San Francisco, California

Fred A. Riddell
Chief of Party: F. Natella

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Fred A. Riddell
F. Natella

Instructions dated (II) (III): 21 November 1952

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 9/25/60

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

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): WEB STAND, 1947

Lat.: 37° 47' 24.522" (756.0m) Long.: 122° 16' 31.839" (779.0m)

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)

DESCRIPTIVE REPORT - DATA RECORD

Page 4

Field Inspection by (II): R. H. Skelton II & J. H. Winniford
& LTJG William R. Kachel

Date: Fall 1952 to
Spring 1953

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Field inspected during
Fall 1952 and Spring 1953.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): C. C. Wiebe

Date: March 1954

Control checked by (III):

Date:

Radial Plot or Stereoscopic

Date: 9/5/53

Control extension by (III): J. E. Deal, Jr.

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): C. C. Wiebe

Date: 3/30/54

Photogrammetric Office Review by (III): James L. Harris

Date: 4/9/54

Elevations on Manuscript
checked by (II) (III):

Date:

Camera (kind or source) (III): U.S.C. & G.S. 9 lens Camera
focal length 8.25 inches

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
39280 thru 39282	1952	Refer to T-11062 and T-11063		
39305 thru 39308	"	" " " " "		

"Desc. Report
T-11063 thru T-11077"

Tide (III)

Reference Station: San Francisco (Golden Gate)
Subordinate Station: Alameda
Subordinate Station: Oakland Harbor, Park Street Bridge

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	3.9	5.8
1.2	4.7	6.4
1.2	4.6	6.3

Washington Office Review by (IV): S. G. Blankenbaker

Date: Aug. 1957

Final Drafting by (IV): AP Berry

Date: 8/22/60

Drafting verified for reproduction by (IV): W.O. Halluin

Date: 9/14/60

Proof Edit by (IV):

Date: 9/28/60

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:

For statistics on above refer to Project Descriptive Report
especially for T-11062 and T-11063

SHORELINE MAPPING PROJECT PH-102

CALIFORNIA, San Francisco Bay

Compiled at scale of 1:10,000 from nine-lens photographs taken September 1952.
(Refer to Air-Photo Index 57-A)

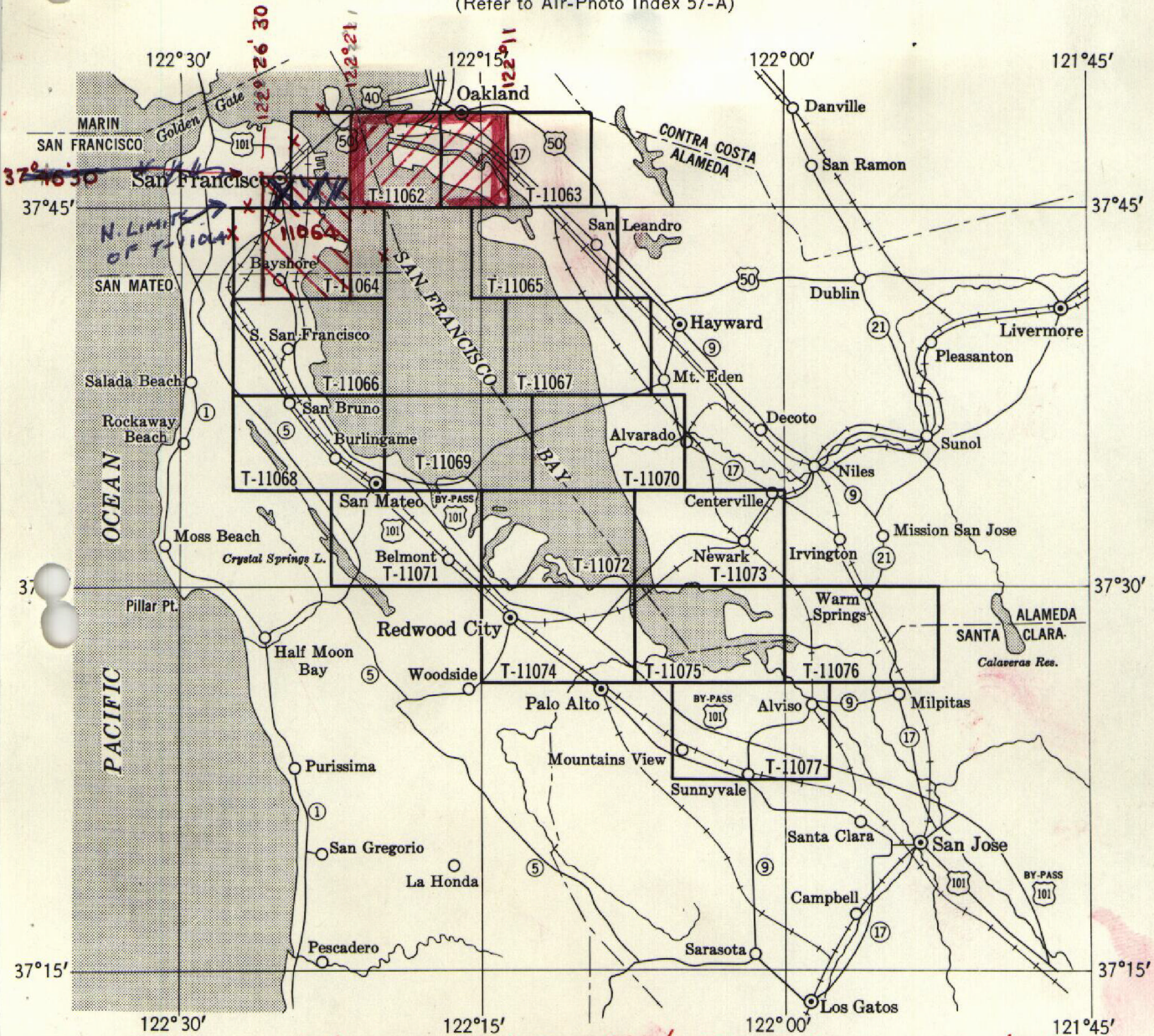


Photo and horizontal control sketch; included in the project Completion Report. The radial plot sketch included in the Desc. Report for T-11063 through T-11077

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Lin. Miles Shoreline	Sheet No.	Sq. Miles Area	Lin. Miles Shoreline
T-11062	4	4	T-11070	5	13
T-11063	2	4	T-11071	3	12
T-11064	4	7	T-11072	6	40
T-11065	5	12	T-11073	9	18
T-11066	4	7	T-11074	6	13
T-11067	5	13	T-11075	11	35
T-11068	4	5	T-11076	10	18
T-11069	3	12	T-11077	9	12
TOTALS		90			225

SUMMARY

T-11062

T-11062 is one of 16 shoreline maps on south San Francisco Bay numbered T-11062 through T-11077 inclusive. Maps T-11063 through T-11077 are bound in a separate descriptive report cover.

This descriptive report includes the following:

- | | |
|---|-----------|
| 1. Data record | (T-11062) |
| 2. Project diagram (map layout) | " |
| 3. Control form M-2388-12 | " |
| 4. Compilation Report | " |
| 5. Geographic names sheet | " |
| 6. Photogrammetric office review report | " |
| 7. Final review report | " |

The descriptive report for T-11063 through T-11067 includes the following:

1. Data record; project statistics
2. Radial plot diagram
3. Summary covering the entire project
4. Radial plot reports
5. Field inspection report

The project completion report includes the following:

1. 567 forms
2. Lists (by map nos.) of notes to hydrographer; topo stations; photo-hydro stations
3. Project diagram (control and photos)

FIELD INSPECTION REPORT

Map Manuscript ~~No. T-5924 (Revision)~~ ~~RS-503~~ T-11062

Project Ph-102

Refer to the Field Inspection Report for Project Ph-102
which is included in the Descriptive Report for Map Manuscript
T-1106~~2~~₃ thru T-11077.

Photogrammetric Plot Report is included in the
Descriptive Report for T-11063 through T-11077.
(Radial Plot "A")

MAP T. 11062

PROJECT NO. Ph-102

SCALE OF MAP 1:10000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
						FORWARD	(BACK)	FORWARD	(BACK)
ALAMEDA NAV. AIR STA. W. BREAKWATER, EAST LIGHT, 1953	Field Comp.	N.A. 1927	37 46 06.879 122 18 34.795	25 503 <i>check</i>		212.1	(1637.7)		
ALAMEDA NAV. AIR STA. W. BREAKWATER, WEST LIGHT, 1953	"	"	37 46 18.707 122 18 59.982	"		851.6	(616.9)		
ALAMEDA NAV. AIR STA. BEACON, 1953	"	"	37 47 08.806 122 18 31.480	<i>check</i>		576.7	(1273.1)		
ALAMEDA NAV. AIR STA. EAST BREAKWATER NORTH LIGHT, 1953	"	"	37 46 06.364 122 18 25.368	<i>OK</i>		1468.0	(0.4)		
ALAMEDA NAV. AIR STA. EAST BREAKWATER SOUTH LIGHT, 1953	"	"	37 46 02.554 122 18 25.629	"		271.5	(1578.3)		
ALAMEDA NAV. AIR STA. INNER BASIN EAST LIGHT, 1953	"	"	37 46 33.701 122 18 14.286	"		770.3	(697.9)		
ALAMEDA NAV. AIR STA. INNER BASIN WEST LIGHT, 1953	"	"	37 46 34.145 122 18 23.276	"		196.2	(1653.6)		
ALAMEDA NAV. AIR STA. CHANNEL LIGHT NO. 7 1953	"	"	37 46 32.566 122 18 28.282	"		620.9	(847.6)		
ALAMEDA NAV. AIR STA. CHANNEL RANGE FRONT LIGHT, 1953	"	"	37 46 27.456 122 18 13.202	"		78.7	(1771.1)		
ALAMEDA NAV. AIR STA. CHANNEL RANGE REAR LIGHT, 1953	"	"	37 46 40.86 122 17 04.02	"		627.3	(841.2)		
ALAMEDA PIPE WORKS HIGHER OF TWO CONC. STACKS, 1942	#943 P-89	"	37 46 20.965 122 17 13.362	"		1039.0	(810.8)		
ALAMEDA, 1947	#943 P-65	"				349.6	(1118.7)		
						1052.7	(797.1)		
						569.6	(898.7)		
						1004.0	(845.8)		
						692.1	(776.2)		
						846.5	(1003.3)		
						323.1	(1145.2)		
						820.6	(1029.2)		
						1305.3	(163.1)		
						1259.7	(590.1)		
						98.4	(1369.9)		
						646.4	(1203.4)		
						327.0	(1141.4)		

1 FT. = 3048006 METER

COMPUTED BY: F.A.R.

DATE 7/27/53

CHECKED BY: J.E.D.

DATE 8/7/53

M. 2388-12

MAP T. 11062

PROJECT NO. Ph-102

SCALE OF MAP 1:10000

SCALE FACTOR

None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
WEB-STAND ✓	#943 P-97	N.A. 1927	37 47	24.522				756.0	(1093.8)		
			122 16	31.839				779.0	(689.0)		
WEB-STAND	Comp.	"	37 47					744.0	(1105.8)		
Sub. Sta. "B"			122 16					772.0	(696.0)		
ALAMEDA, 1947 ✓	Comp.	"	37 46					679.2	(1170.6)		
Sub. Sta.			122 17					308.2	(1160.3)		
OAKLAND INNER HAR	Field	"	37 47	50.864				1568.2	(281.6)		
SO. JETTY LIGHT	Comp.	"	122 19	49.146				1202.4	(265.6)		
OAKLAND HARBOR ✓	#943 P-82	"	37 48	00.632				19.5	(1830.3)		
LIGHTHOUSE, 1919			122 19	50.118				1226.1	(241.8)		
ALAMEDA GRAND BT	#943	"	37 45	51.32				1582.2	(267.6)		
CLUB, CONCRETE ✓	P-87	"	122 15	36.48				892.9	(575.7)		
PILLAR, 1916			37 48	13.760				424.2	(1425.6)		
MERRITT, 1947 ✓	#943 P-67	"	122 15	08.402				205.5	(1262.3)		
MERRITT, 1947 ✓	Comp.	"	37 48					451.4	(1398.4)		
Sub. Sta.			122 15					180.8	(1287.0)		
OAKLAND CITY HAL	#943	"	37 48	19.339				596.2	(1253.6)		
FLAGPOLE, 1913	P-70	"	122 16	17.248				421.9	(1045.8)		
OAKLAND TRIBUNE	"	"	37 48	11.576				356.9	(1492.9)		
BLDG. FLAGPOLE			122 16	11.226				274.6	(1193.2)		
OTIS, PK, 1947 ✓	#943 P-98	"	37 45	27.570				850.0	(999.8)		
			122 14	50.765				1242.7	(226.0)		
WILL, JOSE, 1947 ✓	"	"	37 45	49.993				1541.3	(308.5)		
			122 15	03.867				94.7	(1373.9)		

1 FT. = 3048006 METER

COMPUTED BY: F.A.R.

DATE 7/29/53

CHECKED BY: J.E.D.

DATE 8/14/53

M. 2388.12

MAP T.....11062
PROJECT NO.....Ph-102
SCALE OF MAP.....1:10000
SCALE FACTOR.....None

[illegible]

1 FT. = 3048006 METER	DATE 7/29/53	CHECKED BY J.F.D.	DATE 8/14/53
COMPUTED BY F.A.R.			

COMPILATION REPORT
Map Manuscript No. T-11062
Project PH-102

31. Delineation:

Pass points located in Radial Plot "A" were transferred to a black line impression on acetate of T-5924. Detail points needed for the revision of the planimetry on T-5924 were first located on the base sheets by radial intersection. These were then transferred to the black line impression of T-5924 in the same manner as that described for the pass points. The No. T-11062 was assigned the compilation during final review.

The planimetry as originally compiled on T-5924 from photographs taken in 1941 was then recompiled or revised to agree with the results of Radial Plot "A" and the latest photographic detail shown on the nine-lens photographs taken in 1952. Established compilation methods were used and the revisions to the original planimetry have been shown in red acetate ink.

The obsolete cross hatching of buildings shown on the original for T-5924 was not revised to indicate that the buildings were not field inspected and a definite classification could not be determined by stereoscopic examination.

32. Control:

Refer to the Photogrammetric Plot Report for Radial Plot "A".

33. Supplemental Data:

A print of T-4670 (1931) Revised 1935, Scale 1:10,000 was available.

34. Contours and Drainage:

Not applicable.

35. Shoreline and Alongshore Details:

The shoreline inspection was adequate and the piers, wharves, buildings and other structures adjacent to the shoreline are complete as of the 1952 photographs and field inspection. LTJG William R. Kachel, who did most of the field inspection in the area of T-11062 was available at the Portland Photogrammetric Office for consultation and clarification of any doubtful feature. Mr. Ray H. Skelton II was also consulted at various times when he visited this office.

Low-water and shoal lines were not indicated by field inspection and these features could not be determined from the photographs because they were taken at just about high-water.

36. Offshore Details:

None.

37. Land Marks and Aids:

Forms 567 are included in the Project Completion Report.

38. Control for Future Surveys:

Refer to listings for T-11062.

Forms 524 are being submitted for all topographic stations except those aids to navigation which are surrounded by water. Refer to sub-heading (c), paragraph 7 of the instructions for Project PH-102.

39. Junctions:

Complete and satisfactory junctions have been made with all map manuscripts adjoining T-11062.

40. Horizontal and Vertical Accuracy:

There are no areas of subnormal horizontal accuracy. Vertical accuracy is not applicable.

46. Comparison with Existing Maps:

Comparison was made with previous compilation T-4670 (1931) revised 1935, Scale 1:10,000.

Comparison was made with Army Map Service San Francisco, California and Concord, California, 15 minutes quadrangles (3rd Edition 1948), Scale 1:50,000.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 5535, Scale 1:20,000, published December 1943 (17th Edition), last corrected 6/23/52.

Items to be applied to nautical charts immediately:

None.

Items to be carried forward:

None.

48. Geographic Name list:

Geographic names shown on ¹¹⁰⁶²~~RS-513~~
~~T-5924~~ were obtained from
nautical charts of the area.

Approved and forwarded:

Fred Natella

Fred Natella
Officer-in-Charge
Portland Photogrammetric Office

Respectfully submitted:

J. Edward Deal Jr.

J. Edward Deal, Jr.
Cartographer

- 17 -

Review Report
Shoreline Survey T-11062
August 1, 1957

61. General Statement

In the compilation stage, survey T-11062 was classified as a revision (R.S.503) of survey T-5924. The present classification was assigned during final review.

The radial plot was assembled on base sheets. Corrections were applied (in red) to a blackline impression of T-5924. Additional changes made during final review are shown in purple. A scribed copy of the manuscript will be prepared.

No field inspection was accomplished north of Oakland Harbor Lighthouse. The field classification of buildings is incomplete in interior areas as well as the area at the north end of the survey. As mentioned in the Compilation Report the obsolete cross hatching of buildings on the black line impression of T-5924 was not revised as to classification except for field inspected building in the shoreline areas. The scribed copy of the manuscript will show all buildings with the class I symbol.

62. Comparison with Registered Topographic Surveys

3653	1:10,000	1917	4680	1:5,000	1932
3653a	1:10,000	1920	5924	1:10,000	1944
3661	1:10,000	1917	6898	1:10,000	1940
4428	1:10,000	1927	dab		
4429	1:10,000	1927			
4670	1:10,000	1932			

T-11062 supersedes these prior surveys for nautical charting for the area it encompasses.

T-7065a 1:5,000 1948

No field inspection was accomplished on survey T-11062 in the area common to T-7065a.

63. Comparison with Maps of Other Agencies

Oakland East, Calif.(USGS)	1:24,000	1947
Oakland West, Calif.(USGS)	1:24,000	1947

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

H-8024

1:10,000

1954

H-8024
has unrevised
shoreline

The surveys are in agreement. The shoreline and hydrographic control points were transferred from T-11062 prior to sounding. Minor shoreline changes made during review are in purple.

H-7622

1:5,000

1947

Shoreline and hydrographic control points were transferred from T-7065 (1:5,000) 1947.

No field inspection was accomplished on survey T-11062 in the area common to the hydro survey.

65. Comparison with Nautical Charts

5532

1:40,000

revised 2/6/56

5535

1:20,000

revised 4/30/56

Differences exist in shoreline and alongshore features.

66. Adequacy of Results and Future Surveys

Refer to the Review Summary included in the Descriptive Report, *T 11063 through T 11077*

REVIEWED BY:

S. G. Blankenbaker

S. G. Blankenbaker

APPROVED BY:

R. C. Landy

Chief, Review and Drafting Sec.
Photogrammetry Division

Chief, Nautical Chart ~~Branch~~
Division

J. E. Waugle 7/7/64

Chief, Photogrammetry Division

RS-509, 11062

Geographic Names.

Alameda ✓

Brooklyn Basin ✓

Clinton Basin ✓

Encinal Basin (use this instead of Alaska Basin) ✓

Fortmann Basin ✓

Government Island

Middle Harbor ✓ (applies at Naval Reservation, north of 37 48 and
between 122° 19' and 20').

Oakland ✓

Oakland Inner Harbor ✓

Oakland Mole ✓

Oakland Outer Harbor ✓

San Francisco Bay ✓

Tidal Ca nal ✓

U.S. Maritime Academy ✓

Names approved 7-3-57

L. Heck. L.H.

PHOTOGRAMMETRIC OFFICE REVIEW

~~6084~~ T 11062
T-6084 (revision)

1. Projection and grids X 2. Title X 3. Manuscript numbers X 4. Manuscript size X

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) X 7. Photo hydro stations X 8. Bench marks X 9. Plotting of sextant fixes X 10. Photogrammetric plot report X 11. Detail points X

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line None 14. Rocks, shoals, etc. None 15. Bridges X 16. Aids to navigation X 17. Landmarks X 18. Other alongshore physical features X 19. Other along-shore cultural features X

PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features X

CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads X 30. Other cultural features X

BOUNDARIES

31. Boundary lines None 32. Public land lines none

MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X

40. James L. Harris J. Edward Deal, Jr.

Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

M-2623-12

