11428

Diag. Cht. No. 1210-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-142 *Office No.* T-11428

LOCALITY

State Massachusetts - Rhode Island

General locality Sakonnet River

Locality Fogland Point to Gould Island

1954-56

CHIEF OF PARTY
L.F.Woodcock, Chief of Party
W.F.Deane, Baltimore District Officer

LIBRARY & ARCHIVES

DATE November 17, 1961

USCOMM-DC 5087

11428

DATA RECORD

T-11428

Project No. (II): Ph-142 Quadrangle Name (IV):

Field Office (II): New Bedford, Mass. Chief of Party: L. F. Woodcock

Photogrammetric Office (III): Baltimore, Md. Officer-in-Charge: William F. Deane

Instructions dated (II) (III):
8 June 1954
Suppl. 1, 15 July 1954
Suppl 2, 6 Aug. 1954
Suppl. 3, 18 Aug. 1954
Office, 15 Sept. 1955

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:4,000, 1:6,000 (Pantograph ratio 2/5, 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV): 14 SEP 1959 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 28 Aug 1960

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): M.H.W.

[redacted]:
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): WING, 1843

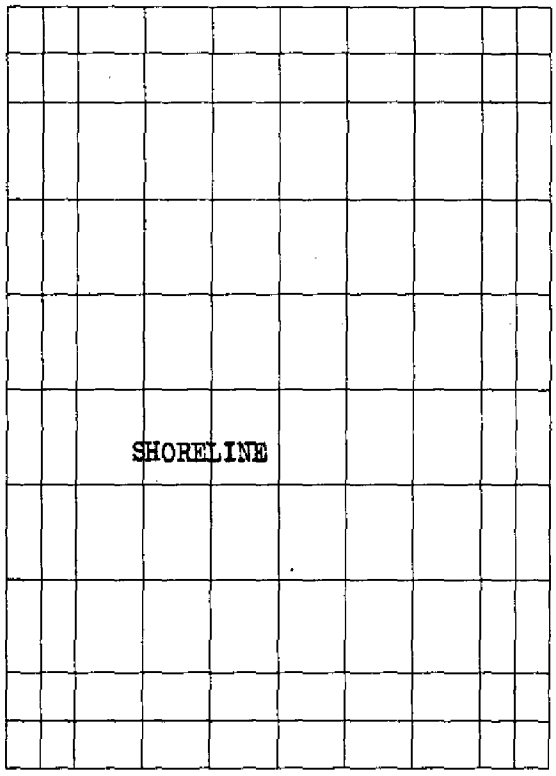
Lat.: 41° 35' 22.673" (699.5 m) Long.: 71° 11' 10.463" (242.3 m) Adjusted [redacted]

Plane Coordinates (IV): State: R. I., Mass. Zone: --Mainland

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)

DATA RECORD

Field Inspection by (II): L. F. Beugnet — Date: June 1954

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): 1956 date of photography supplemented by field inspection on 1954 photography.

Projection and Grids ruled by (IV): A. Riley — Date: 9/30/54

Projection and Grids checked by (IV): A. Riley — Date: 10/8/54

Control plotted by (III): J. B. McDonald — Date: 7/12/55

Control checked by (III): M. Keller — Date: 7/12/55

Radial Plot or Stereoscopic Control extension by (III): — Date:

Stereoscopic Instrument compilation (III): Planimetry J. C. Cregan, D. M. Brant — Date: 2/18/59 ~~1/16/56~~

Contours — Date:

Manuscript delineated by (III): R. E. Lindauer (Scribing) — Date: 5/14/59

Photogrammetric Office Review by (III): J. W. Vonasek — Date: 2/27/59

Elevations on Manuscript checked by (II) (III): --- — Date: ---

Camera (kind or source) (III): C&GS single lens camera "W", 6" focal length and nine-lens.

PHOTOGRAPHS (III)

Number	Date	Time EST	Scale	Stage of Tide
54-W-931 thru 934	4/22/54	1106	1:20,000	2.9' above MLW
945 " 948	"	1115	"	2.8' " "
1190 " 1194	"	1356	"	0.8' " "
1216 " 1219	"	1430	"	0.3' " "
43727 - 43729	4/24/54	1614	1:10,000	0.4' " "
54-W-340 thru 342	5/2/54	0930	1:20,000	2.9' " "
371 thru 374	"	1129	"	2.7' " "
469 thru 470	"	1147	"	2.8' " "

Tide (III)

(from predicted tables)

Reference Station: Newport, R. I.

Subordinate Station: Tiverton

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	3.5	4.4
	3.8	4.1

Washington Office Review by (IV): D. K. Stromme

Date: 2/25/60

2. AREAL FIELD INSPECTION

The area of this survey lies along both shores and along the upper reaches of the Sakonnet River. The extreme eastern edge of the area is in Massachusetts and the remainder in Rhode Island.

The area is heavily settled. Permanent residencies predominate although there are numerous summer homes along both shores of the river.

There are small dairy and truck farms scattered throughout the area.

Marsh and swamp areas appear throughout the area with marsh being generally restricted to the shoreline and swamp appearing in the interior only.

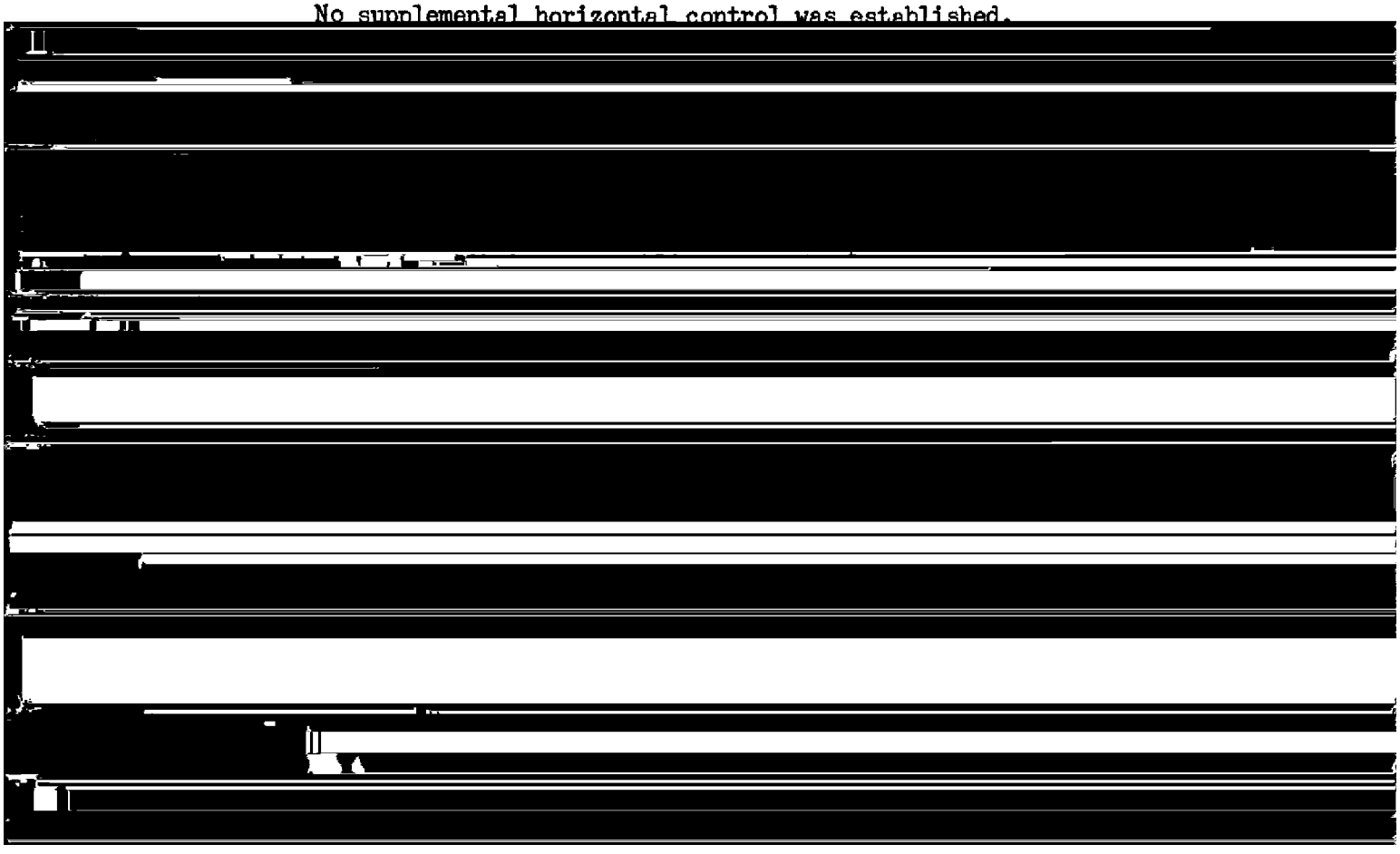
Field inspection is believed to be adequate and complete.

Field inspection was done on 1:10,000 scale ratio prints of single lens photographs 54-W-932, 54-W-934, 54-W-945 through 54-W-948, 54-W-1190 through 54-W-1194, 54-W-1216 through 54-W-1220 and 1:10,000 scale nine lens photograph 43728.

Quality of the single lens ratio prints was excellent and that of the nine-lens photographs much better than usual.

3. HORIZONTAL CONTROL

No supplemental horizontal control was established.



5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage is almost exclusively perennial and is easily interpreted from the photographs.

Marsh and swamp areas have been indicated on the photographs. The limits of these areas were indicated where doubt as to their location could arise.

6. WOODLAND COVER

Adequately covered by the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line presented no difficulties in its location or identification. The mean high water line has been indicated by symbol on the photographs.

The mean low water line along most of the shoreline is synonymous with the mean high water line for all charting purposes at this scale due to the steepness of the beach. The approximate mean low water line has been indicated in those areas where there is sufficient horizontal distance between the two water lines.

The foreshore is rocky except in a few minor areas which have been indicated on the photographs.

Several low cliffs exist. These are easily found by a stereoscopic examination of the photographs and have not been indicated.

Other alongshore features are adequately covered by the photographs.

8. OFFSHORE FEATURES

All offshore rocks found awash at low water were identified, height above water level determined, and the date and time noted on the photograph.

9. LANDMARKS AND AIDS

Landmarks are adequately covered by the photographs and Form 567.

There are no aids.

10. BOUNDARIES, MONUMENTS AND LINES

The Massachusetts-Rhode Island state boundary passes through the eastern edge of the map. The location and a description of this line will be included in "Special Report, State Boundaries, Project Ph-142". Positions of five monuments on this line are given in the legal description contained in above report. Their accuracy is unknown. These five monuments were recovered and identified for photogrammetric location.

11. OTHER CONTROL

Two recoverable photo-topo stations were established: STONE CHIMNEY and WHITE HOUSE, CHIMNEY.

Photo-hydro stations 001 through 025 were identified.

12. OTHER INTERIOR FEATURES

Adequately covered by the photographs.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, P roject Ph-142."

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, State Boundaries, Project Ph-142, to be submitted at a later date.

Special Report, Geographic Names, Project Ph-142, to be submitted at a later date.

Data, Map T-11428, Letter of Transmittal No. Ph-142-1, forwarded to Washington Office 28 July 1954.

Data, Map T-11428, Letter of Transmittal No. Ph-142-1A, forwarded to Washington Office OCT 19 1954

Submitted
18 October 1954

I. Y. Fitzgerald
Photo. Engineer

Approved & Forwarded
OCT 19 1954

Lorin F. Woodcock
Chief of Party

Photogrammetry

MAP T-11428 PROJECT NO. Ph-142 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM NA	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)
	Vol. 1 RI		41-36-35.963	1109.5	(741.6)	1851.1				
Power, 1917	P 99	1927	71-14-33.516	776.0	(613.3)	1389.3				
Portsmouth, Belfry, 1869	Vol. 1 RI P 145	1927	41-36-12.79	394.6	(1456.5)	1851.1				
			71-14-53.78	1245.4	(144.0)	1389.4				
McCurrys Point, 1917	Vol. 1 RI P 99	1927	41-34-32.648	1007.2	(844.9)	1851.1				
			71-14-13.000	301.2	(1088.2)	1390.0				
Wing, 1843	Vol. 1 RI P 145	1927	41-35-22.673	699.5	(1151.6)	1851.1				
			71-11-10.463	242.3	(1147.4)	1389.7				
Brown, 1917	Vol. 1 RI P 99	1927	41-35-11.553	356.4	(1494.7)	1851.1				
			71-11-43.865	1016.0	(373.8)	1389.8				
Cornell, 1843	Vol. 1 RI P 146	1927	41-37-1841	568.0	(1283.1)	1851.1				
			71-09-16.63	385.0	(1004.0)	1389.0				
Chase Estate, Gray Tower, 1917	Vol. 1 RI P 103	1927	41-36-40.274	1242.5	(608.6)	1851.1				
			71-12-33.105	766.5	(622.7)	1389.2				
Four Corners, Belfry, 1869	Vol. 1 RI P 146	1927	41-34-30.97	955.5	(895.6)	1851.1				
			71-11-22.52	521.7	(868.4)	1390.1				
Slade Farm, Flag, 1917	Vol. 1 RI P 102	1927	41-34-13.279	409.7	(1441.4)	1851.1				
			71-12-26.552	615.2	(774.9)	1390.1				
Church's Estate, Yellow Tower, 1917	Vol. 1 RI P 103	1927	41-37-01.790	55.2	(1795.9)	1851.1				
			71-12-40.145	929.4	(459.7)	1389.1				
Sub Pt. Power, 1917		1927	41-36	1144.1	(707.0)	1851.1				
			71-14	839.9	(549.4)	1389.3				
Sub Pt. Brown, 1917		1927	41-35	368.8	(1482.3)	1851.1				
			71-11	1033.8	(356.0)	1389.8				

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: John B. McDonald DATE: 12 July 1955 CHECKED BY: Morton Keller DATE: 12 July 1955

Copy checked - M. Keller

Photogrammetry

MAP T- 11428 PROJECT NO. Ph-142 SCALE OF MAP 1:10,000 SCALE FACTOR

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)
Sub Pt. McCurrys Point 1917		1927	41-34	1021.3	(829.8)	1851.1				
			71-14	345.9	(1044.1)	1390.0				
DUTCH WINDMILL 1917 r'35 (d)	pg 102	"	41 / 33 / 54.853	1692.3	158.8	1851.1	W of SURVEY			
			71 / 15 / 18.227	422.3	967.9	1390.2				
QUAKER 3 1932 r'34	pg 3	"	41 / 35 / 02.100	64.8	1786.3	1851.1	W of SURVEY			
			71 / 15 / 18.249	422.7	967.2	1389.9				
BLACK TANK 1932 (nd)	pg 66	"	41 / 37 / 26.35	812.9	1038.2	1851.1	W of SURVEY			
			71 / 15 / 43.38	1004.2	384.8	1389.0				
FLAGSTAFF 1913 r 35 (d)	pg 140	"	41 / 36 / 12.746	393.2	1457.9	1851.1	W. of SURVEY			
			71 / 16 / 24.891	576.4	813.0	1389.4				
SS QUAKER 3 1932		"	41 / 35 /	45.6	1805.5	1851.1				
			71 / 15 /	447.0	942.9	1389.9				

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: John B. McDonald DATE 12 July 1955 CHECKED BY: Morton Keller DATE 12 July 1955

Computed and V. Keller

COMPILATION REPORT
T-11428

Photogrammetric Plot Report:

The bridging of the 1954 photography was done in the Washington office.

Refer to the descriptive report for survey T-11429 for the photogrammetric plot report for the bridging of the 1956 photography.

A multiplex bridge was run in the strip 56-W-330 to 335 to delineate the northeast corner of this survey.

31. DELINEATION

The Kelsh Plotter was used for delineation on vinylite projection. The west half of the survey was delineated from the 1954 photography and corrected to date with the 1956 photography.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Final name standard dated 12/15/54.

34. CONTOURS AND DRAINAGE

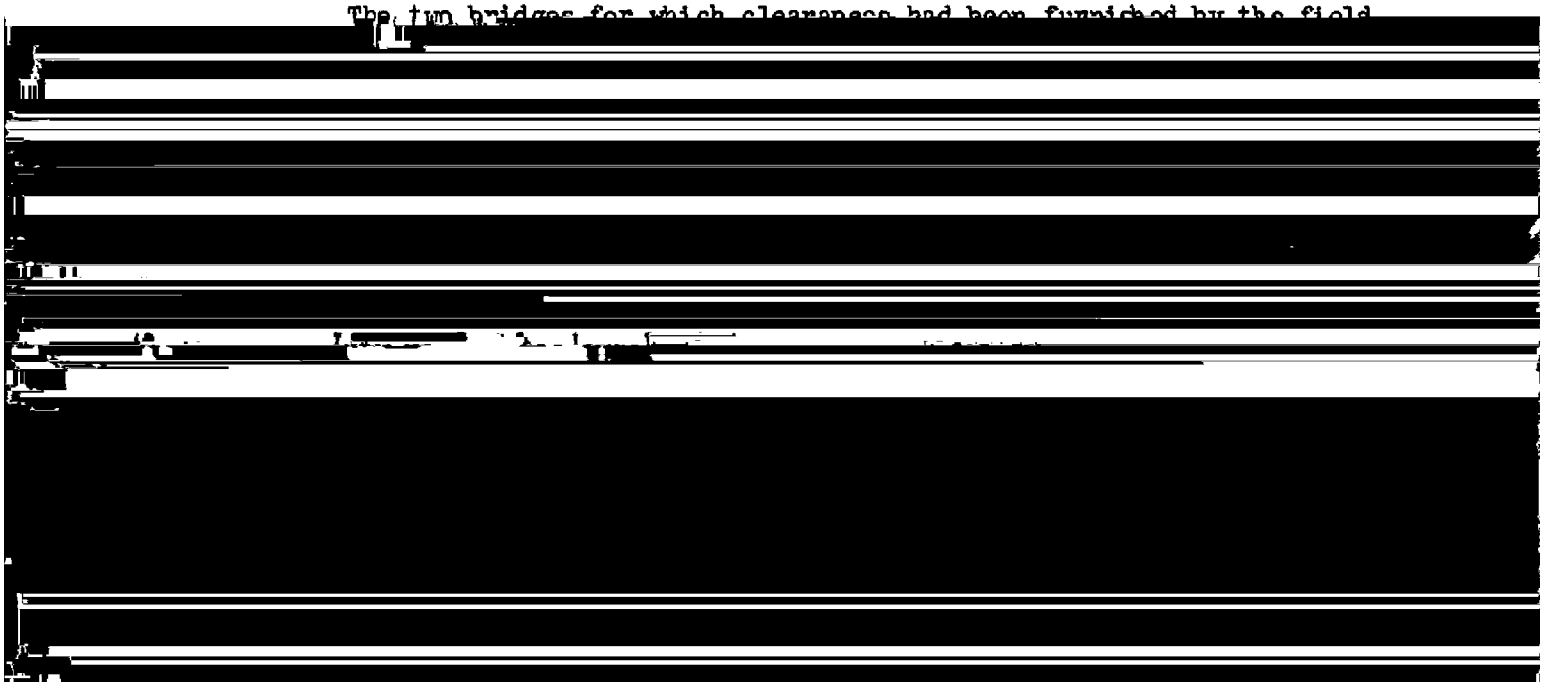
Drainage is complete. Contours are inapplicable.

The limits of Great Swamp were delineated by office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

All alongshore details are from field inspection which was adequate. The low water lines are as delineated by the field party. The 1956 photographs were used to make some minor changes in the shoreline details.

The two bridges for which clearances had been furnished by the field



37. LANDMARKS AND AIDS

Form 567 was submitted for one landmark to be charted.

38. CONTROL FOR FUTURE SURVEYS

Two stations CHIMNEY, 1954 were located in the Kelsh Plotter.

In accordance with supplement 2 of the project instructions, the photo-hydro stations selected and described on the field photographs have not been plotted.

39. JUNCTIONS

Junctions have been made as follows:
to the north with T-10491, T-10492 (Ph-163)
to the east with T-11429
to the south with T-11430
to the west with T-10497 (Ph-163)

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 - 45 Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. 7½ minute quadrangle Tiverton, R.I. - Mass., scale 1:31,680, edition of 1947, 1950 reprint.
Bureau survey T-5750(1944) scale 1:20,000, date of issue 1949.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 353, scale 1:40,000 edition of 10 March 1958 corrected to 10/4/58.

Items to be applied to nautical charts immediately: None.
Items to be carried forward: None.

Respectfully submitted
27 February 1959
Joseph W Vonasek
Joseph W. Vonasek
Carto. (Photo.)

Approved and forwarded

William F. Deane
William F. Deane, CDR, C&GS
Baltimore District Officer

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11428

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

4a. Classification label ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations — 8. Bench marks —

9. Plotting of sextant fixes — 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges ✓ 16. Aids to navigation — 17. Landmarks ✓ 18. Other alongshore physical features ✓ 19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours — 23. Stereoscopic instrument contours — 24. Contours in general — 25. Spot elevations — 26. Other physical features ✓

CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads — 30. Other cultural features ✓

BOUNDARIES

31. Boundary lines ✓ 32. Public land lines —

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay — 37. Descriptive Report ✓ 38. Field Inspection photographs ✓ 39. Forms ✓

40. Joseph W Bonacek
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:

COMM-DC 34529

48. GEOGRAPHIC NAMES LIST

Adamsville Brook
Aquidneck Island

Blue Bill Cove
Borden Brook
Boyd Lane

Corey Wharf

Devoll Pond

Forland Point

Gould Island
Great Swamp

Highland Road

Island Park

Jiley Hill

McCurry Point
*Massachusetts

Nannaquaket Neck
Nannaquaket Pond
Noncuit Pond

Portsmouth
Portsmouth Park

Quaket Creek

*Rhode Island

*Sakonnet River
Sapowet Cove
Sapowet Point
Sawdy Pond
Sin and Flesh Brook

Tiverton Four Corners

White Wine Creek
Wilcox Hill

* B.G.N. DECISIONS.

George D. Bacon
GEOGRAPHIC NAMES SECTION
28 MARCH 1960

Form 567
April 1945

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Baltimore, Maryland February 29, 1956

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

The positions given have been checked after listing by Henry P. Eichert

E. H. Kirsch *Chief of Party.*

STATE RHODE ISLAND

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
	Wooden, ht = 60 (90) (△			01.790		40.145	NA	Triang.		x			353
TOWER	Church's Estate, Yellow Tower,1917)		41 37	55.2	71 12	929.4	1927	T-11428	1917		x		1210

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by

REVIEW REPORT T-11428
SHORELINE
26 February 1960

62. Comparison with Registered Topographic Surveys

180		1:10,000	1844
1156		1:10,000	1870
1162		1:10,000	1870
3678		1:10,000	1917
3679		1:10,000	1917
5601		1:10,000	1934
6118	Graphic	1:10,000	1934

This manuscript supersedes the above surveys for new nautical chart construction.

63. Comparison with Maps of Other Agencies

USGS Tiverton R.I. - Mass. 1:31,680 1947

64. Comparison with Contemporary Hydrographic Surveys

H8397 1:10,000 1957 unverified

(SEE NEXT PAGE)

The following is a tabulation complete with recommendations on the discrepancies found by the reviewer. Since all differences are indicated under this item, a separate page "Notes to Verifier" is not included as part of this report.

65. Comparison with Nautical Charts

353 1:40,000 19 Edition 1958 1/25/60

Although the chart was revised in January 1960, apparently an advance copy of this manuscript was not utilized since detail particularly piers, groins and shoreline detail around McCurry Pt. and Saponet Pt. are not the same. Further indication that this is true is found in the fact that Nautical Chart Compiler Form M2168-1 was not bound with this report.

66. Adequacy of Results and Future Surveys

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

FIELD PHOTO	ITEM	POSITION	REMARKS	RECOMMENDATION
54-W-1219		41°37'29"	Manuscript denotes rock.	Safest approach is to use least depth. Use hydro elevation. Bridge by instruments. Very good position of rock located using this bridge. Use photogrammetric position.
	Rock	71°12'42"	As awash (1) hydro shows rock to be (3) and about 35m SW of photogrammetric position. Search of photography fails to indicate a rock at position of one shown on hydro sheet.	
54-W-1217	Rock	41°34'45"	Manuscript (2)	Rock is close to MHWL. Use least depth (5) by hydro.
		71°12'31"	Hydro (5)	
54-W-1190	Pier	41°34'02"	A new pier is shown on the hydro sheet just south of one delineated from field inspection. The hydrographer did not indicate if the pier delineated from field inspection had been destroyed or not.	The position difference is about 10m. The new pier, the position of which was "fixed" during hydrography, extends about three times the distance in the water as the one on the T-sheet. Chart scale is 1:40,000. Show only the new pier after verification of the position.
		71°14'25"		
54-W-1190	Rock Groin	41°34'45"	The circumstance is very similar to that above.	Same as above.
		71°14'40"		

REVIEWED BY:

A. K. Heywood

A. K. Heywood

APPROVED BY:

L. C. Landy

Chief, Review & Drafting Section

L. F. Woodcock

Asst Chief, Photogrammetry Division

11/29/61 J. E. Waugh

Chief, Nautical Chart ~~Branch~~ Division

E. L. Mast

Asst Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11428

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8-2-61	353 ~~296~~	M. Rogers	Fully applied. ~~Before~~ After Verification and Review
~~12-12-61~~			
12-12-61	237	M. Rogers	Fully applied ~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.