10490

Diag. Cht. No. 1210-2.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-163 *Office No.* T-10490

LOCALITY

10490

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE,
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T- 10490

Project No. (II): Ph-163

Quadrangle Name (IV):

Field Office (II): East Providence, R. I.

Chief of Party: Ira R. Rubottom

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane

Instructions dated (II) (III):
(II) 9 April 1956
13 March 1957

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): ~~Shoreline~~ - Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000
(Pantograph ratio 3/5)

Scale Factor (III): 1.000

2 - 1960

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):
[illegible]: 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): HOG ISLAND 3, 1874

Lat.: 41° 38' 39.930" (1231.9 m)

Long.: 71° 16' 50.930" (1178.6 m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: Rhode Island

Zone: ---

Y=

X=

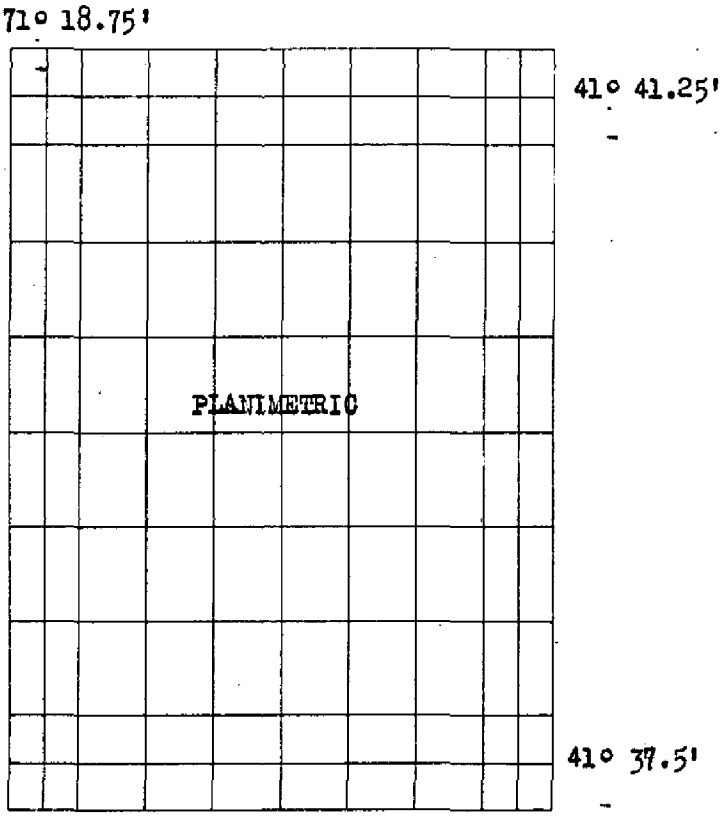
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



Areas contoured by various personnel
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Camera "W" 6" focal length

PHOTOGRAPHS (III)

Number	Date	Time (EST)	Scale	Stage of Tide
56-W-224 thru 227	1 May 1956	0919	1:30,000	2.0' above MLW
56-W-242 thru 245	"	0931	"	2.5' " "

Tide (III)
(from predicted tables)

Ratio of Ranges	Mean Range	Spring Range
	3.5	4.4
	4.1	5.1

Reference Station: Newport, R. I.
Subordinate Station: Bristol
Subordinate Station:

Washington Office Review by (IV): S. G. BLANKENBAKER Date: Dec., 1966

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 5.5 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 17.2 mile
Shoreline (Less than 200 meters to opposite shore) (III): 0.5 mile
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 18 Recovered: 13 Identified: 7
Number of BMs searched for (II): 6 Recovered: 6 Identified: 1
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III): see par. 38

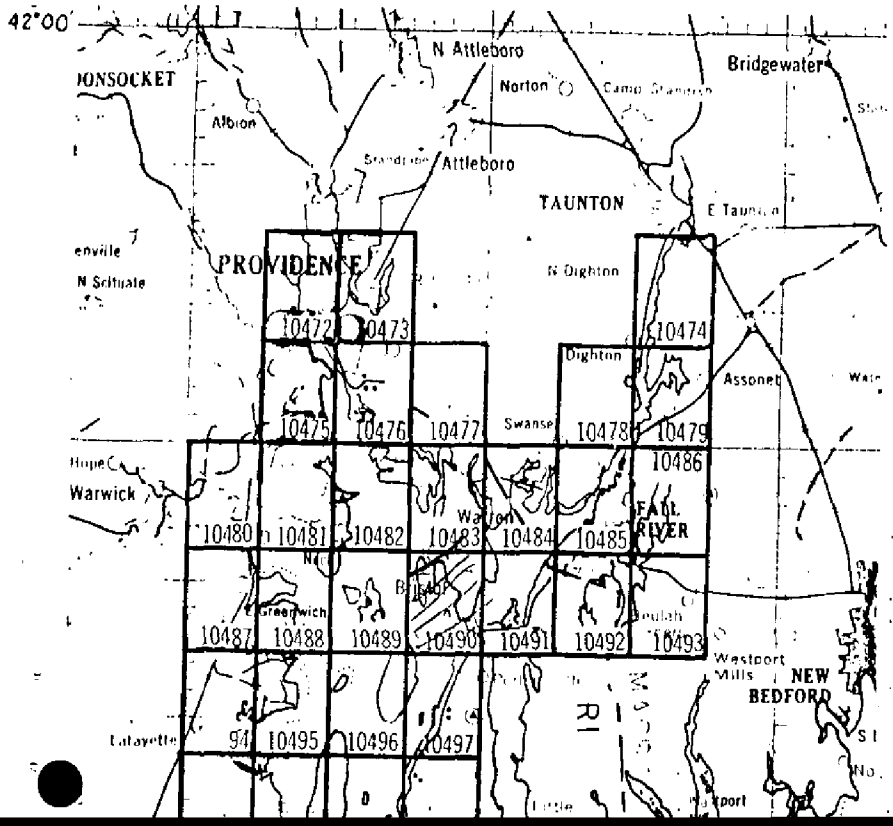
Remarks:

Two (2) third-order triangulation stations established.

All bench marks searched for are Tidal Bench Marks.

PLANIMETRIC MAPPING PROJECT PH - 163

Narragansett Bay, Mass. - Rhode Island



OFFICIAL MILEAGE FOR COST ACCO

SHEET NO.	Lin.Mi. SHORELINE	ARE SQ. M
10472	10	13
10473	7	13
10474	9	14
10475	8	10
10476	6	11
10477	2	13
10478	1	13
10479	7	12
10480	2	13
10481	4	13
10482	8	4
10483	6	11
10484	8	8
10485	8	10
10486	7	10
10487	3	13
10488	6	6
10489	7	3
10490	8	7
10491	8	6
10492	4	11
10493	3	12

[redacted]

Summary to Accompany Descriptive Report T-10490

T-10490 is one of 30 planimetric maps comprising project PH-163. The project covers the Narragansett Bay, Rhode Island-Massachusetts, area.

The project area was field inspected. Deficiencies in alongshore rock information are discussed in the final review report and in the addendum to this Summary.

Limited field edit of this map was accomplished by contemporary hydrographic survey parties.

The project area was bridged by multiplex. T-10490 was compiled by Kelsh plotter.

A cronaflex copy of the map will be registered.

ADDENDUM TO SUMMARIES TO ACCOMPANY
JOB PH-163 MAPS T-10472 through T-10501
(ACCURACY AND FUTURE SURVEYS)

Most of the project maps were used in contemporary hydrographic survey operations. Four hydrographic surveys accomplished in the period of time between 1943 and 1955 cover the project area outside the areas of contemporary surveys.

The contemporary hydrographic surveys have been registered. With one exception they are classified "basic". Survey H-8367 is classified as "basic for charting only".

Considerable difficulty was experienced during smooth plotting and verification of some hydrographic surveys in using signals located by plane table methods. Many of the objects were identified on field photographs by the plane table party. Field identification of these objects was re-examined in the Baltimore Office, Compilation Unit. Some of the objects were relocated photogrammetrically and this revised information was furnished for use in smooth plotting.

The Norfolk Processing Office Addendum to Accompany Survey H-8316 mentions difficulties experienced when plotting sextant angles locating piles, piers, shoreline changes, etc. -- they were seldom in agreement with photogrammetric manuscript positions. The Washington office verifier was unable to adjust the subject information using the available hydrographic data. To assist in resolving the discrepancies, the Photogrammetry Division (Washington Office Review Group) rechecked signal locations on Maps T-10472, T-10473, T-10475 and T-10476. Fifty-seven signal locations and random portions of shoreline were revised by graphic methods using available field photographs that included field identified primary control and signals. This additional work is subject to error due to the condition of the photographs and the more limited use of project control; many discrepancies between the surveys, however, were resolved by using the revised information. No requests for similar rechecks were made by verifiers of other hydrographic surveys.

In part, the problems encountered in survey H-8316 (and H-8394) during hydrography and by verifiers can be attributed to the enlargement of these photogrammetric maps from 1:10,000 to 1:5,000 scale for use in hydro support. Similar problems on

other hydrographic surveys were attributed, in part, to incorrect transfer of signals, substandard plotting and use of weak sextant fixes.

Control for project bridging (multiplex) was classified "over abundant" (150 stations). While 25% of the stations were "difficult to see", only two stations were not held. Pass points between strips were averaged-adjustment less than 0.5 mm.

In addition to the previously mentioned supplemental work (relocation of signals and shoreline), two stereoplanigraph models were set to test horizontal map accuracy. The models covered parts of maps T-10472 and T-10473. A datum difference was found to exist between Bureau control and MGS and USGS control. Adjustment of these difference produced no appreciabl shift in map details.

Rock information mapped on some of the photogrammetric surveys was incomplete as the result of poor photography inadequately supplemented by field inspection. The hydrographer located many rocks missed on the photogrammetric survey; and, in addition, the hydrographic survey reviewers found it necessary to bring forward considerable rock information without the benefit of verification by either the photogrammetric surveys or the contemporary hydrographic surveys.

These surveys have been used, in part, for nautical charting through both direct application of details and indirectly through contemporary hydrographic surveys. As previously mentioned, all but one of the contemporary hydrographic surveys have been registered as "basic surveys". Registration of these maps is recommended. Future use of the maps for hydro support purposes is not recommended due to the previously discussed problems that were encountered. Rebridging by analytic aerotriangulation and new mapping with new color and infrared photography is recommended.

S. G. Blankenbaker

S. G. Blankenbaker

NOTE: POLITICAL BOUNDARIES - With the exception of the Mass. - Rhode Island State Line, none of the numerous mapped political boundaries are shown on modern charts. In consideration of the loss of some field photographs, and requests by photogrammetric office reviewers for field verification of boundaries, it is recommended that the project maps not be considered sources for political boundaries (with the exception of the state line). SGB

FIELD INSPECTION REPORT
Project 25120
Map T-10490

Please refer to the Field Inspection Report for Map T-10480 for all data pertaining to this map.

Leo F. Beugnet

Leo F. Beugnet
Cartographic Survey Aid

Approved:
Faith Y. Fitzgerald
for Ira R. Rubottom
Chief of Party

FIELD INSPECTION PHOTOGRAPHS
56W 225, 226, 227, 242, 243, 244, 245

54W 1194, 1195, 1196, 1197

PHOTOGRAPHS 54W 1145, 1194, 1195 WERE MISSING AT THE TIME OF FINAL REVIEW - APPARENTLY ~~MISSING~~ LOST.

U.S. DEPARTMENT OF COMMERCE — COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

NO. Ph-163 (25120) SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

TITUDE OR y-COORDINATE NGITUDE 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)	FORWARD	(BACK)
41	38	19.134	590.3	1260.8					
71	17	07.497	173.5	1215.2					
41	41	09.647	297.6	1553.5					
71	15	22.702	525.0	862.6					
41	38	58.583	1807.3	43.8					
71	18	05.285	122.3	1266.1					
41	37	56.082	1730.2	120.9					
71	16	25.487	589.9	798.9					
41	38	33.890	1045.5	805.6					
71	15	38.749	896.8	491.8					
41	40	12.117	373.8	1477.3					
71	16	25.776	596.3	791.7					
41	40	22.055	680.4	1170.7					
71	16	17.620	407.6	980.4					
41	38	28.692	885.2	965.9					
71	15	33.813	782.5	606.1					
41	40	24.587	758.5	1092.6					
71	16	10.620	245.7	1142.2					
41	40	16.876	520.6	1330.5					
71	16	17.028	393.9	994.1					
41	38	17.862	551.1	1300.0					
71	15	27.363	633.3	755.4					

3/22/57 CHECKED BY S. G. Blankenbaker DATE 3/26/57

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE — COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T- 10490 PROJECT NO. Ph-163 SCALE OF MAP 1:10,000 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)
SQUASH, 1913	GP List p. 64	N.A. 1927	41	40	21.638	667.6	1183.5					
			71	18	24.099	557.5	830.5					
WEST, 1861			41	38	43.870	1353.4	497.7					
	p. 98	"	71	15	42.119	974.7	413.8					
HOG ISLAND 3, 1874			41	38	39.930	1231.9	619.2					
	p. 143	"	71	16	50.930	1178.6	209.9					
CASTLE ISLAND LIGHT, 1956			41	39	13.426	414.2	1436.9					
	p. 169	"	71	17	12.252	283.5	1104.8					
Sub. Pt. SQUASH	Comp.	"	41	40		680.6	1170.5					
			71	18		546.8	841.2					

1 FT. = .3048006 METER

COMPUTED BY: A. K. Heywood DATE 3/22/57 CHECKED BY: S. G. Blankenbaker DATE 3/26/57

COMM-DC-57843

-12-

COMPILATION REPORT
Ph-163
T-10490

The photogrammetric plot report for this survey is part of the descriptive report for Survey T-10472.

[redacted]

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Final name standard dated 5 March 1957.

Planetable Sheet Ph-1-F-56.

34. CONTOURS AND DRAINAGE

Drainage is complete.
Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline detail is from field inspection which was thorough.

36. OFFSHORE DETAIL

38. CONTROL FOR FUTURE SURVEY

[redacted]

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 278, scale 1:20,000, published November 11, 1946, revised 8/25/58.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
26 January 1959

John C Richter

John C. Richter
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- 10490

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. Vonasek
Reviewer

Henry P. Eichert
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.

S. G. BLANKENBAKER
~~Compiler~~

Supervisor

Dec. 1966

43. Remarks:

Review Report
T-10490
December 1966

61. General Statement

This survey has been used for hydrographic survey support purposes (H-8314, H-8395, and H-8396). Corrections applied to photogrammetric survey detail during hydrography and/or verification of the hydrographic surveys were applied to T-10490 during this review.

No discrepancies exist between the surveys. T-10490 is deficient in alongshore rock information - refer to side heading 66.

During review of the hydrographic surveys, thorough evaluations were made of prior Bureau topographic information (registered surveys). For this reason comparison with prior surveys during the review of T-10490 was limited to the surveys accounted for in subsequent sections of this report.

62. Comparison with Registered Topographic Surveys

T-5749	1:20,000	1944
T-5750	1:20,000	1944

A few alongshore rocks were carried forward from the prior topographic surveys to H-8396, dated 1956. Except for these details, T-10490 supersedes the prior surveys for nautical charting purposes in the common area.

63. Comparison with Maps of Other Agencies

USGS quad Bristol	1:24,000	1955

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

H-8314	1:10,000	1956
H-8395	1:10,000	1957
H-8396	1:10,000	1957

These surveys have been accepted as basic surveys. Refer to side headings 61 and 66 of this report concerning application of T-10490 to the hydrographic surveys.

65. Comparison with Nautical Charts

278 1:20,000 11/9/64

The chart contains some topography from more recent sources. No significant differences were noted.

66. Adequacy of Results and Future Surveys

Project photography was poor for the purpose of interpreting alongshore details (rocks, piles, etc.); and, in addition, field inspection of alongshore rock details was incomplete. As a result a considerable number of rocks were added by the hydrographic survey party; also, rock details were carried

[redacted]

fication.

The addendum to the "Summary" included in this Descriptive Report contains additional information pertaining to the adequacy and accuracy of project maps. The maps are to be registered; remapping, however, is recommended for future hydrographic survey support purposes.

Reviewed by

S. G. Blankenbaker

S. G. Blankenbaker

1-9-68

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Rhode Island)

T-10490

Bristol
Bristol County-pp
Bristol Harbor
Bristol Ferry-pp
Bristol Neck

Bristol Point

Castle Island
East Cemetary-pp
East Passage
DeWolf Cemetary-pp
Fort Hill
Ferry Cliff-pp
Hog Island

Hog Island Rock
Hog Island Shoal-pp
Juniper Hill
Juniper Hill Cemetary-pp
Mill Gut
Middle Ground-pp
Mill Pond

Mount Hope Bay
Mount Hope Bridge-pp
Musselbed Shoal-pp

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Narragansett Bay
Newport County-pp
North Point

Popasquash Neck

Popasquash Point
Pourtsmouth-pp
Prudence Island

~~Rhode Island~~
St. Marys Cemetary-pp
Silver Creek

Southwest Point

Usher Cove

Usher Point
Usher Rocks-pp
Walker Cove

Walker Creek

Walker Island

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

Form 567
April 1945

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Baltimore, Maryland 2 February 19 59

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 Joseph W. Vonasek

~~William F. Deane~~ *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	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
TANK	~~steel, water, ht=170(227)(△ Bristol Black Tank 1932)~~	LAC	41 40	~~24.567~~ 750.5	71 16	~~10.620~~ 285.7	N.A. 1927	T-10490 Triang	5/16/56	x	x		~~278~~ 353, 1210
STACK	~~round, brick, ht=181(228)(△ Bristol Stack, 1932)~~	STA	41 40	~~22.055~~ 680.4	71 16	~~17.620~~ 407.6	"	"	"	x	x		" "
TOWER	~~square, buff brick ht=98(145) (△ Bristol, Square Stone Church Tower, 1912)~~	ARE	41 40	~~16.876~~ 520.6	71 16	~~17.028~~ 393.9	"	"	"	x	x		" "
TANK	~~steel, water ht=126(131)~~ H8395	GUS	41 40	~~18.3~~ 565	71 16	~~48.7~~ 1126	"	Photo.	8/11/56	x			" "
TANK	steel, water ht 118(123) H8395	HEX	41 40	~~00.6~~ 20	71 16	~~40.9~~ 946	"	"	"	x			278
TOWER	steel, ht=285(285)(△ Mt. Hope Bridge North Tower, 1932) H8395	HOP	41 38	28.692 885.2	71 15	33.813 782.5	"	Triang.	5/16/56	x			278
TOWER	steel, ht=285(285)(△ Mt. Hope Hope Bridge South Tower, 1932) H8395	TOWE	41 38	18.862 551.1	71 15	27.363 633.3	"	"	"	x			278

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 individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

COMM-DC 28356

Form 567
April 1945

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

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

Baltimore, Maryland 2 February 1959

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

The positions given have been checked after listing by Joseph W. Vonasek

William F. Deane *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
LT	Hog Island Shoal Light (△ Hog Island Shoal Lighthouse, 1913)	AND	41 37	56.082 1730.2	71 16	25.487 589.9	N.A. 1927	T-10490 Triang	9/4 1956	x	x		236, 278, 353, 1210
LT	Musselbed Shoals Light	SEL	41 38	10.21 315	71 15	37.63 871	"	Photo.	"	x	x		278, 353, 1210
LT	Castle Island Light (△ Castle Island Light, 1956)	CAS	41 39	13.426 414.2	71 17	12.252 283.5	"	Triang	8/14 1956	x	x		278, 353, 1210
LT	Bristol Harbor Light	ION	41 39	57.8 1783	71 16	43.6 2009	"	Photo.	"	x	x		278, 353, 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 individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

Comm-DC 28356

(3-25-63) NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10490

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
236	7/9/68	J Hogan	~~Full Part Before After~~ Verification Review Inspection Signed Via
			Drawing No. 35 - No Con.
			Consider fully applied until reconstruction. ajh
278	8-15-69	O Chapman	~~Full Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 25 Revised tops
353	12-16-70	H. Danley	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via
			Drawing No.
278	2-17-73	W. Chandler	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No.
353	6-18-73	W. Chandler	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
			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 8558-P63