**DESCRIPTIVE REPORT**

**Type of Survey**  Planimetric

**Field No.**  Ph-163  **Office No.**  T-10475

**LOCALITY**

**State**  Rhode Island

**General locality**  Narragansett Bay

**Locality**  Providence (South)

**1956**

**CHIEF OF PARTY**

I. R. Rubottom, Chief of Party

William E. Randall, Balto. Dist. Officer

**LIBRARY & ARCHIVES**

**DATE**  February 26, 1968
Ph-163

Project No. (II): 22220
Quadranlge Name (IV):

Field Office (II): East Providence, R. I.  
Chief of Party: Ira E. Rubottom

Photogrammetric Office (III): Baltimore, Maryland  
Officer-in-Charge: William E. Randall

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

Method of Compilation (III): Kitchen Plotter

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

Scale Factor (III): 1.000

Date received in Washington Office (IV): 23 Aug 1956  
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): MHW

Reference Station (III): KETTLE POINT, 1863
Lat.: 41° 47' 45.853 (1414.7 m)  Long.: 71° 22' 41.108 (949.1 m)  Adjusted

Plane Coordinates (IV):  
State: Rhode Island  Zone: --

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)
Field Inspection by (II): Matthew A. Stewart, Lou F. Beugnet

Date: May-October 1956

Planetary contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

1956 Photogrammetric (date of photography)

Projection and Grids ruled by (IV): J. B. Phillips

Date: 2 August 1957

Projection and Grids checked by (IV): J. B. Phillips

Date: 2 August 1957

Control plotted by (III): E. L. Rolle

Date: 30 August 1957

Control checked by (III): J. C. Cregan

Date: 5 September 1957

Radial Plot or Stereoscopic Control extension by (III): E. L. Rolle

Date: 9 Sept. 1957

Stereoscopic Instrument compilation (III):

Planimetry: E. Kurs

J. D. McEvoy

Date:

Manuscript delineated by (III): R. E. Lindauer

(scribed)

Date: 26 January 1960

Photogrammetric Office Review by (III): J. W. Vonasek

Date: 25 Nov. 1959

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

Date:

FIELD EDIT

LIMITED EDIT BY HYDRO SURVEY PARTIES DATE: 1956
(H-8314 AND 8316)
DESCRIPTIVE REPORT - DATA RECORD

Number | Date | Time (EST) | Scale | Stage of Tide
---|---|---|---|---
56-7167 thru 169 | 5/1/56 | 0833 | 1:30,000 | 1.5' above MLW
56-7179 thru 182 | n | 0844 | n | 1.9' n | n

Tide (III)
(from predicted tables)

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

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

Date: Nov, 1966

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 11 Statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 6 Statute miles
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 11
Recovered: 5
Identified: 3
Number of BMs searched for (II): 7
Recovered: 7
Identified: 1
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): See item 38

Remarks:

Seven (7) third-order triangulation stations established.

All bench marks searched for are Tidal Bench Marks.
SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS
T-10472, T-10473, T-10475 and T-10476
Job PH-163

Job PH-163 is comprised of thirty planimetric surveys and
covers the Narragansett Bay, Rhode Island-Massachusetts area.

A complete field inspection preceded compilation. Limited
field edit was accomplished in conjunction with contemporary
hydrographic surveys H-8314 and H-8316. The project was
bridged by multiplex and compiled by Kelsh plotter.

Difficulties encountered by the hydrographic survey verifier
in adjusting hydrographic information based on plane table
and photogrammetric control are discussed in the individual
review reports and in the Addendum to this Summary.

Cronaflex copies of the maps 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 hydro-
graphic 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 sex-
tant 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 Photo-
grammetry 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 photo-
graphs 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 appreciable 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. Re-bridging by analytic aerotriangulation and new mapping with new color and infrared photography is recommended.

S. G. Blankenbaker

FIELD INSPECTION REPORT
Project 25120
Map S-10475

Please refer to the Field Inspection Report for Map S-10472 for all data pertaining to this map.

Isaiah Y. Fitzgerald
Photogrammetric Engineer

Approved:
I. R. Rubottom
Chief of Party

FIELD PHOTOGRAPHS FOR THIS MAP:
56W 133, 134, 167, 168, 169, 180, 181, 182
54W 1041, 1096, 1097, 1098, 1099 A

NOTE: PHOTOGRAPHS CIRCLED COULD NOT BE FOUND AT TIME OF FINAL REVIEW.

URBAN AREA LIMITS WERE INSPECTED ON 54W PHOTOGRAPH (CONTACT). PHOTO NUMBERS ARE LISTED IN THE PROJECT COMPLETION REPORT.
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR x-COORDINATE</th>
<th>LONGITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS BACK</th>
<th>DATUM CORRECTION</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<td>JOHNSTON TV STATION</td>
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<td>41.17</td>
<td>66.116</td>
<td>1126.3</td>
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<td>WPRO TOWER, 1956</td>
<td>Q. 170</td>
<td></td>
<td>41.28</td>
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<td>551.2</td>
<td>833.8</td>
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<td>1808.1</td>
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<td>SABINE POINT LIGHTHOUSE, 1897</td>
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<td>NEUTA CONKANUT, 1843</td>
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<td>40.55</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: J. C. Richter DATE: 25 July 1957
CHECKED BY: J. C. Cregan DATE: 12 August 1957
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<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>71 26</td>
<td>66.2</td>
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1 ft = 0.3048006 m

COMPUTED BY: J. C. Richter    DATE: 25 July 1957

CHECKED BY: J. C. Crogan    DATE: 12 August 1957
Photogrammetric Plot Report is part of the descriptive report for survey T-10472.

31. **DELINEATION**

The Kelsh Plotter was used for delineation.

32. **CONTROL**

Horizontal control was adequate. Vertical control is inapplicable.

33. **SUPPLEMENTAL DATA**

Geographic Name Standard dated 5 March 1957.
City of Providence Map, published 1955, was used for compiling the town line between Providence and East Providence from Kettle Pt. on T-10475 to Bishop Pt. on T-10472.
Map of City of Cranston, 1956 for comparison.
Map of Town of East Providence, 1954 for comparison.
Copies of boat sheets for surveys H-8314 and H-8316 were available for comparison.

34. **CONTOURS AND DRAINAGE**

Drainage is complete. Contours are inapplicable.

35. **SHORELINE AND ALONGSHORE DETAILS**

All shoreline details are from field inspection which was thorough.
The low water lines are from field inspection.

36. **OFFSHORE DETAILS**

The piles at rawtuxet Cove were located by sextant fixes recorded on back of field photograph No. 56-W-182.

37. **LANDMARKS AND AIDS**

Forms 967 were submitted for six (6) landmarks and four (4) aids.
Four (4) of the above points were located photogrammetrically from field identification during delineation by Kelsh Plotter.
38. CONTROL FOR FUTURE SURVEYS

No points, other than those mentioned under item 37, were established.

Refer to attached notes regarding the photo-hydro stations in the area of this survey and to the "Descriptive Report to accompany Graphic Control Survey Sheets Ph-1-A-56 through Ph-1-N-56" submitted for this project.

39. JUNCTIONS

To the north with T-10472.
To the east with T-10476.
To the south with T-10481.
There is no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 thru 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. 7½ minute quadrangle, Providence, R. I., scale 1:24,000, edition of 1959.
Bureau Survey T-5748 S/2 (1944), scale 1:10,000.

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
3 December 1958

Approved and forwarded

J. D. McRae
Carto. (Photo.)

William E. Randall,
CDR, C&GS
Baltimore District Officer
PHOTOMGRAMMETRIC OFFICE REVIEW

1. Projection and grids  
2. Title  
3. Manuscript numbers  
4. Manuscript size  
5. 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. Planetary 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. [Signature]  
    Reviewer  
    [Signature]  
    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.

5. C. B. K. [Signature]  
    Compiler  
    40, Nov. 1966

43. Remarks:
61. **General Statement**

Field edit, accomplished by hydrographic survey parties during contemporary surveys H-8314 and H-8316, consisted of a check of landmarks, MHW line and topographic features seaward from the shoreline. Hydrographic survey changes in photogrammetric details were applied to the photogrammetric surveys during the subject final review.

Hydrographic survey verification and review preceded this review. The verifier (H-8316) encountered considerable difficulty in adjusting hydrographic information. These difficulties were never entirely eliminated. Since the difficulties were related, in part, to photogrammetric survey information, the Washington Office Review Group checked hydrographic signal location (previously located by plane table methods and identified on photographs) and the location of shoreline and alongshore features by graphic methods using field photographs containing primary control identified for bridging and the identified signals. New positions were obtained for 57 signals and shoreline changes were made in several areas. Most of the problems in adjusting hydrographic information and the related discrepancies between the surveys were resolved through application of the subject revisions. The combined Addendum to Summaries included in each Descriptive Report contains a discussion of the subject revision work and other problems encountered that relate to overall project accuracy and future surveys.

62 through 65. **Comparisons**

All prior Bureau topographic information (topographic and hydrographic surveys and the subject maps) located in the alongshore area were evaluated by contemporary hydrographic survey parties and/or verifiers. Prior Bureau surveys were not compared with the new maps during the subject review.

Refer to side heading 61 concerning comparison with contemporary hydrographic surveys. Comparison with nautical charts and maps of other agencies were made by photogrammetric compilers.
A number of discrepancies -- involving features (school names, boundaries, etc.) not applicable to either hydrographic surveys or nautical charts -- between these surveys and USGS quads were noted on discrepancy prints. The discrepancies were not resolved during field edit (hydro party); they cannot be resolved in the office.

66. Adequacy of Results and Future Surveys

Refer to the "Addendum to Summaries" included in this Descriptive Report.

Reviewed by:

S. G. Blankenbaker

Approved by:

Charles 
Chief, Photogrammetric Branch

Ralph Sobieswski MAR 25 1983
Chief, Photogrammetry Division

John J. Boyer
Chief, Marine Chart Division
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Mass. & R. I.)
T-10475

Allens Avenue
Auburn
Barrington Parkway
Bellefonte
Bellefonte Pond
Boston Post Road
Brigg Jr. High School
Broad Street
Congregational Sons of Israel Cemetery
Copps Cove
Cranberry Bog
Cranberry Island
Cranston
Cunliff Lake
Deep Spring Lake
Dillon Memorial Park
East Providence
Eddy Street
Edgewood
Edgewood Pond
Edgewood Yacht Club
Elmwood
Elmwood Avenue
Elon Lake
Fenner Pond
Fields Point
Flower Island
Fuller Rock
Gilbert Stuart Jr. High School
Grace Cemetery

Harbor Junction
Harbor Junction Wharf
Hospital Pond
Kent County
Kettle Point
Knight Memorial Library
Lakewood
Locust Grove Cemetery
Lovett Rock
Marsh Island
Mashapaug Brook
Mashapaug Pond
Metacomet Golf Club
Municipal Wharf
Narragansett Boulevard
Narragansett Parkway
Narragansett Yacht Club
Nelson W. Aldrich High School
New York, New Haven and Hartford
Norwood
Oakland Cemetery
Park Avenue
Park View Jr. High School
Pawtuxet
Pawtuxet Cemetery
Pawtuxet Cove
Pawtuxet Reservation
Pawtuxet River
Pierce Memorial Field
Pleasure Lake

Approved by:

A. Joseph Wright
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

Note: Wright's list continued on page 18A
Polo Lake
Posneganset Pond
Providence
Providence County
Providence River
Reservoir Avenue
Rhode Island Hospital
Rhode Island Yacht Club
Robin Hill
Rock Island
Roger Williams Jr. High School
Roger Williams Park
Rose Island
Saint Joseph Hospital
Sassafrass Point
Scopulous Island
Silver Hook
South Providence
Star Island
Stillhouse Cove Park
Sunshine Island
U. S. l
U. S. Alt. l
U. S. Armory
U. S. Naval Reserve
Warwick
Warwick Avenue
Warwick R. R.
Watchemoket Cove
Washouset Point
Wilkes Barre Pier
William H. Hall Library
Willow Lake
REPORT TO ACCOMPANY CRONAFLEX PRINT
OF SURVEY T-10475, PROJECT PH-163

This manuscript was compared with copies of graphic control sheets Nos. Ph-1-B-56 and Ph-1-C-56, Projects Nos. 13870 and 25220, scale 1:10,000. Common photo-hydro stations whose positions differ by more than 0.5 mm are listed below. Also listed are those photo-hydro stations that could not be identified. All other photo-hydro stations within the limits of this survey were verified within 0.5 mm and were not plotted on the manuscript.

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<tr>
<th>STATION NAME</th>
<th>PHOTOGRAMMETRIC POSITION</th>
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<tr>
<td>WAG</td>
<td>0.7 mm SE</td>
</tr>
<tr>
<td>WIT</td>
<td>0.9 mm SE</td>
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<tr>
<td>GAM</td>
<td>0.6 mm SE</td>
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<tr>
<td>YES</td>
<td>0.8 mm ENE</td>
</tr>
<tr>
<td>RUM</td>
<td>0.7 mm N</td>
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<tr>
<td>FIG</td>
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STATION NOT IDENTIFIED

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<tr>
<td>LAD</td>
<td>PAD</td>
<td>YAM</td>
<td>PAL</td>
<td>WAX</td>
</tr>
</tbody>
</table>

It is recommended that the photo-hydro stations plotted on the map manuscript be used in making the smooth sheets.

Respectfully submitted
8 September 1958

Approved and forwarded
Leroy A. Senasack
Carto. Photo. Aid

William F. Deane,
CDR CGS
Baltimore District Officer
NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland 12 October 1959

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

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

<table>
<thead>
<tr>
<th>STATE</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>LT</td>
<td>Sabin Point Light (Sabine Point Lighthouse, 1897)</td>
</tr>
<tr>
<td>LT</td>
<td>Pawtucket Cove Range Front Light</td>
</tr>
<tr>
<td>LT</td>
<td>Pawtucket Cove Range Rear Light</td>
</tr>
<tr>
<td>LT</td>
<td>Fuller Rock Light (Fuller Rocks Light, 1956)</td>
</tr>
</tbody>
</table>

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.
TO BE CHARTED

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

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

William F. Dano
Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE °</th>
<th>LATITUDE ′</th>
<th>D.H. METERS</th>
<th>LONITUDE °</th>
<th>LONITUDE ′</th>
<th>D.P. METERS</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td>Rhode Island</td>
<td>PENTHOUSE (East Corner) (203)</td>
<td>Rhode Island Hospital ht=153</td>
<td>11 18</td>
<td>12 12</td>
<td>1308.6</td>
<td>71 24</td>
<td>800.8</td>
<td>1927</td>
<td>Triang. 9/56</td>
<td>x</td>
<td>352, 353</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GAS TANK</td>
<td>steel, large black ht=186(208)</td>
<td>11 18</td>
<td>10 18</td>
<td>1087</td>
<td>71 24</td>
<td>656</td>
<td></td>
<td>photo</td>
<td>10/16</td>
<td>x</td>
<td>351</td>
<td>278, 352</td>
</tr>
<tr>
<td></td>
<td>GAS TANK</td>
<td>steel, large black ht=208(223)</td>
<td>11 17</td>
<td>10 17</td>
<td>1063</td>
<td>71 23</td>
<td>656</td>
<td></td>
<td>photo</td>
<td>10/16</td>
<td>x</td>
<td>351</td>
<td>278, 352</td>
</tr>
<tr>
<td></td>
<td>STACK</td>
<td>yellow brick ht=118(157) Providence Lag Co., Stack, 1956</td>
<td>11 17</td>
<td>10 17</td>
<td>1716.3</td>
<td>71 23</td>
<td>902.1</td>
<td></td>
<td>Triang. 9/56</td>
<td>x</td>
<td>353, 352</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STACK</td>
<td>red brick ht=150(177) Providence Disposal Plant, Stack, 1956</td>
<td>11 17</td>
<td>10 17</td>
<td>1306.7</td>
<td>71 23</td>
<td>639.3</td>
<td></td>
<td>7/18/56</td>
<td>x</td>
<td>353, 352</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPIRE</td>
<td>wooden ht=92(12) Postuxet Church Spire, 1897</td>
<td>11 15</td>
<td>10 15</td>
<td>1808.1</td>
<td>71 23</td>
<td>710.9</td>
<td></td>
<td>7/19/56</td>
<td>x</td>
<td>278, 353</td>
<td></td>
<td></td>
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* TABULATE SECONDS AND METERS
The delineation of the boundaries in the vicinity of Providence River should be verified. (T-10472, T-10473, T-10474, T-10476, T-10482). They are based mainly on field inspection on photographs 56-W-167, 168, 161, 210. The field report states that the boundary of the Town of East Providence is not properly shown on current quadrangles, but it is not clear exactly what correction is desired.

The Providence - East Providence line was taken from the map of the City of Providence. (T-10472, T-10473, T-10475, Bishop Point to Kettle Point). Photograph 181 was used from there to Pawtuxet Cove. The county lines south of Sabin Point Light and in Bullock Cove were taken from the quads.

The map of the City of Cranston shows a boundary in the Providence River much closer to the shore (T-10475). The map of the Town of East Providence shows a line in the river which differs considerably from the delineated line. It actually agrees closely with one marked "harbor line" on the map of the City of Providence. These maps may not be correct but field verification appears necessary. Conflicting positions are indicated on the discrepancy prints.

The USGS East Greenwich quadrangle, 1959 edition, shows the Warwick City boundary carried along the county lines in the water areas. The same treatment was used on surveys T-10475, T-10476, and T-10482.

The TBM at State Pier was office identified.

Comparison with the Providence quadrangle, 1959 edition indicates appreciable changes in the shoreline at Fields Point.

Coast Pilot information: The marine railway in Pawtuxet Cove has capacities of 60' length, 6' draft, 25 tons. (photograph 181).
**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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
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<tr>
<td>352</td>
<td>12-4-69</td>
<td>Jeff Stuart</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. adequate applied until reconstr</td>
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<tr>
<td>353</td>
<td>12-16-70</td>
<td>H. Danley</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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<td>278</td>
<td>2-14-73</td>
<td>C. L.</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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<tr>
<td>353</td>
<td>6-18-70</td>
<td>C. L.</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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