

### DESCRIPTIVE REPORT - DATA RECORD

- 2 -

T - 10472

Ph-163

Project No. (II); /2/5/1/20/

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 15 March 1957 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

(Pantograph ratio 3/5)

Scale Factor (III); 1.000

Date received in Washington Office (IV): 1 1 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

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): FORT HILL, 1956

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Lat.: 41° 48' 52.576" (1622.1 m) Long.: 71° 23' 18.670" (430.9 m)

Adjusted

CHOOLEGERING

Plane Coordinates (IV):

State: Rhode Island

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Y=

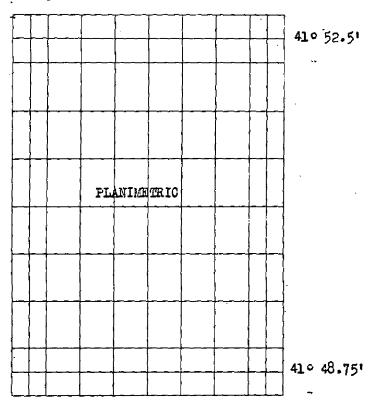
Χ=

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.

COMM-DC-57842

71,926.251



71 9 22.51
Areas contoured by various personnel
(Show name within area)
(II) (III)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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

Number	Date	PHOTOGRAPHS (III) Time (EST)	Scale	Stage of Tide
56-W-170 56-W-171 thru 1 56-W-177 thru 1		0834 0836 0843	1:30,000	1.5' above MIW No tidal waters 1.9' above MIW

Tide (III) (from predicted tables)

Reference Station:

Newport, R. I.

Subordinate Station: Subordinate Station:

Pro vidence

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

Date: Nov. 1966

7

Range Range

|Ratio of | Mean | Spring

Ranges

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date: Date:

Date:

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 12

Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

20 Number of Triangulation Stations searched for (II): Recovered: Identified: Recovered: Identified:

Number of BMs searched for (II):

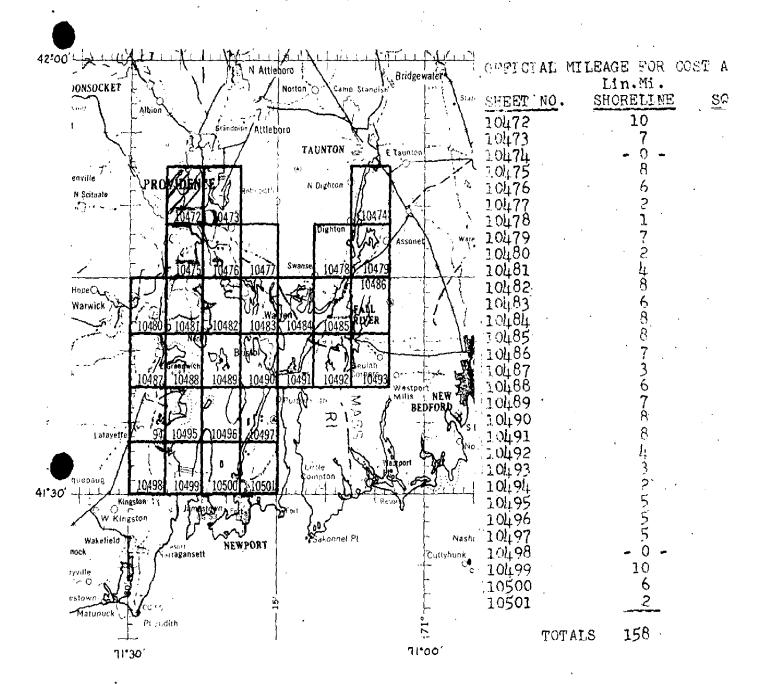
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): Refer to item No. 38

Fifteen (15) third-order triangulation stations established.

Narragansett Bay, Mass. - Rhode Island







# 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



# 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 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. Rebridging by analytic aerotriangulation and new mapping with new color and infrared photography is recommended.

S. G. Blankenbaker

NOTE: POLITICAL BOUNDARIES - With the exception of the Mass - Rhope 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 affice 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). see

### FIELD INSPECTION REPORT

### T-10472, T-10473, T-10475, T-10476, and T-10477

### 2. AREAL FIELD INSPECTION

This area is that covering the upper reaches of Providence River and the lower reaches of the Seekonk River, in each case, to the head of navigation and including Providence and Pawtucket Harbors. The former is of much greater importance because of its controlling depth and pier facilities.

The entire area is rather densely populated and is predominantly industrial although there is a small lobster and fishing industry as well as some truck and dairy farming.

The terrain is rolling and in all respects typical to similar glaciated topography.

Facilities are excellent for water, rail, surface and air transport.

Field inspection was accomplished using 1956 single lens photographs with little difficulty. Horizontal control identification was slightly troublesome in a few areas due to the loss of definition of images of small bushes and boulders. However, this was not serious. Field inspection notes appear on 1:10,000 scale ratio prints of single lens photographs:

T-10472 (JSW) NOTE: PHOTOGRAPHS 56W170, (171, (172, 177, 178) CIRCLED IN REP 54w1031, 1039, 1040, 1093, 1094, 1096 COULD NOT BE FOUND AT TIME T-10473 (MAS) OF FINAL 56W177, (178, 179, (212, (213, 214) (216) REVIEW NOTE: THE NOS, OF PHOTOS USED FOR 54W1093, 1094 PROJECT URBAN AREA LIMITS INSPEC-T-10475 (MAS) TION ARE LISTED IN THE PROJECT 56W133, 134, (67,) 168, 169, 180, 181, (182) COMPLETION RE-PORT. 54W1041, 1096, 1097, 1098, 1099A

T-10476 (JSW)

56w180, 181, 182, 209, 210, 211, 212, 221

54W1084, 1085, 1096, 1098, 1099A

T-10477

56W218, 219, 220, 249

### 3. HORIZONTAL CONTROL

Third-order triangulation methods used to locate landmarks and fixed aids to navigation in the Providence Harbor resulted in the establishment of several new stations of which none were required for photogrammetric control. The new stations are:

### T-10472:

Providence E (USGS)
Providence, Rhode Island Supreme Court Building, Spire
Providence, Brown University Stack
Providence, Hope Street High School Cupola
Providence, WRIB Radio Tower
Providence, Narragansett Electric Co. Gray Stack
Providence, Narragansett Electric Co. Black Stack
Providence, Narragansett Electric Co. Brick Stack
Providence River West Transmission Tower
Providence River East Transmission Tower
East Providence Standpipe
East Providence Bold Point Radio Tower
East Providence Seekonk River North Transmission Tower
East Providence Seekonk River South Transmission Tower

### T-10473

Rehoboth, WJAR-TV Tower

### <u> 10475</u>

Hospital
Wilkes
Powtuxet 2
Johnston, WPRO-TV Tower
Fuller Rocks Light
Providence Sewage Disposal Plant, Stack
Providence, Providence Gas Co. Stack

### T-10476

Providence River Light 17A East Providence, Squantum Club Stack

Stations reported lost are as follows: T-10472.

Providence, High Street Church, 1863
Pawtucket Water Works, Pole on Gate House, 1884
Prospect Hill, 1843
82 USGS
131 USGS

### T-10473

Verification South Base, 1836 242 USGS 463 USGS M44D MGS 71F MGS 71K MGS 71AA MGS 71AC MGS

### T-10475

Pawtuxet Beacon, 1912 Sassafras Point Lighthouse, 1897 Fuller Rocks Lighthouse, 1897 Pawtuxet, 1863 Auxiliary, 1897 Ft. Independence 2, 1863

### <u>r-10476</u>

Cranberry, 1897 Sabin Pt. 2, 1897 Bayview Hotel Flag, 1912 Sable Point, 1863 Cherry, 1890

### T-10477

Marsh, 1890 Kings Rock, 1835 M6BP

No control of any agency not plotted on the project index was used or obtained. The control plotted consists of U. S. Geological Survey traverse and Massachusetts Geodetic Survey traverse and triangulation. No information as to the accuracy of this control was furnished the field party.

### 4. VERTICAL CONTROL

This phase was limited to recovery of existing tidal bench marks.

### 5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage is entirely perennial streams, swamp and tidal marsh. Marsh and swamp limits were indicated except for

some small isolated swamp areas which were merely labeled or left unlabeled for office classification by analogy from nearby swamp which had been labeled.

On the whole, perennial streams are self-evident even to the unaided eye. All drainage was examined steroscopically and clarified where necessary to aid compilation.

### 6. WOODLAND COVER

Adequately covered by field inspection notes on the photographs.

### 7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line is self-evident along rocky stretches and along rock outcrags, because of the line created by marine vegetation on the foreshore and the resulting difference in photographic tones along sand beaches this line was inspected visually and verified to be as photographed 17 May 1956 by the "W" camera.

An approximate low water line was indicated where practicable.

The foreshore is adequately covered by field inspection notes.

Bluffs along the Providence River have been indicated where they are of landmark value. There are not many of them.

All other shoreline features and structures are adequately covered by field inspection notes.

### 8. OFFSHORE FEATURES

All rocks were not visited during field inspection. The elevation above water was determined for all rocks which were visible at the time the shoreline inspection party was in the area. Shoreline inspection of the southern part of the area was completed after hydrography by the East Coast Field Party while the Seekonk River was completed prior to hydrography. As hydrography of the entire area was either complete or in progress, field inspection of rocks was not as detailed as would have been the case if hydrography has been scheduled for another season.

### 9. LANDMARKS AND AIDS

All land marks in the area of Chart No. 352, Providence Earbor were located by third-order triangulation as well as all fixed aids to navigation of permanent-type construction, namely, Fuller Rocks Light and Providence River Light 17 A. Four fixed aids in the Skeekonk River were identified for location photogrammetrically as they are all dolphin structures of a semi-permanent nature. A third-order triangulation position and the height above MSL were determined of two television station antennas; one in Johnston, just west of Providence and the other in Rehoboth, Mass., east of Providence and both outside the project area.

All of these landmarks were not identified as required by project instructions. The images of those not identified were surrounded by the 25 mm triangle and the station name and landmark data placed nearby. The image was not marked. This was done on authority of verbal approval by the Chief, Photogrammetry Division.

### 10. BOUNDARIES, MONUMENTS AND LINES

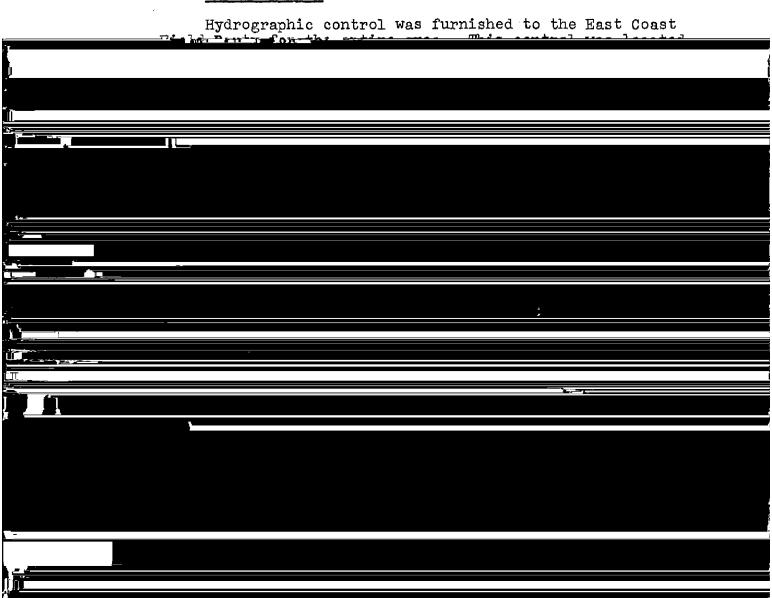
Boundaries effecting these maps are as follows:

- 1. Massachusetts-Rhode Island State Boundary, Maps T-10473, T-10476 and T-10477.
- 2. Bristol County, Massachusetts maps T-10473, T-10476 and T-10477.
- 3. Providence County, Rhode Island, Maps T-10475 and T-10476,
  - 4. Kent County, Rhode Island, Maps T-10475 and T-10476.
  - 5. Bristol County, Rhode Island, Map T-10476
  - 6. City of Cranston, Rhode Island, T-10475
- 7. City of Providence, Rhode Island, T-10472, T-10473 and T-10475.
  - 8. City of North Providence Rhode Island, T-10472
  - 9. City of Pawtucket, Rhode Island, T-10472 and T-10473.
- 10. Town of East Providence, Rhode Island, T-10472, T-10473, T-10475 and T-10476.

All boundaries listed above were found to be as shown on current topographic quadrangle maps, published by the U. S. Geological Survey with the exception of the Town of East Providence.

Local Officials with authority over the boundary under investigation were consulted, except the Massachusetts-Rhode Island State Boundary. All monuments reported to be in existence by these officials were searched for and identified, if recovered. The boundaries were inked on the field photographs in the entirety except in a few instances where there were numerous closely spaced monuments. Only short sections of the boundaries were inked in those instances. The Massachusetts- Rhode Island State Boundary was not inked on the photographs at any place. All monuments on this boundary were searched for and identified if recovered. Ten monuments on this boundary were recovered and identified: 7 in T-10473 and 3 in T-10476.

### 11. OTHER CONTROL



Circle Swan
State Pier (North)
State Pier (South)
Washburn
Butlers'
No. 11 Stony Point

No other control was established.

### 12. OTHER INTERIOR FEATURES

Bridges and overhead cables clearances are as tabulated below. There are no other interior features of note:

### Overhead Cable Clearances

Waterway	Lat.	Long.	Clearance	Map No.
Providence River			152	T-10472
Skeekonk Ry	7.%		143	T-10472
ff 1	ı		146	T-10472
ti ti	ı		140	T-10472
n t	ı		41	T-10472
Warren Rv			46	T-10477

<sup>\*</sup> Cable nearest mouth of River first and then proceeding upstream.

(For Bridge Clearances, see next page)

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Waterway	Bridge name	Measured Horiz. Ve	red Vert.	Bridge Book Horiz.	Book Vert.	Map No.
Providence River	Point Street	99 7.66	€*8€	101	0.6	T-10472
Seekonk River	NYNH&H RR	83.2 84.5	3.9	83 84.8 4.9	6.4	T-10472
Seekonk River	Washington Bridge	100 ge	40.1	100	40.7	T-10472
Seekonk River	Providence Termi- nal Co. RR Bridge	Termi- Bridge 92.5	16.1	92 <b>.</b> 4	17.2	T-10472
Seekonk River	Red Bridge	69.5	11.9	50 50	13.0	T-10472
Seekonk River	Division Street Pawtucket	50	39.0	50	30	T-10472
Barrington River	Highway	34.5	٦, ھ	34.5	₩•9	T-10476
Warren River	Нівһмау	26.8	ν. ω. *	27.5	3.4	T-10477
Warren River	Highway(US 6)	28.5	8.7 *	25.3	, 0.9	T-10477
s dif	st This difference is probably due to tide reduction data. Was used, The tide at the bridges probably differ greatly	bly due to bridges pr	tide redu obably dif	to tide reduction data. probably differ greatly	Subordin in time a	Subordinate station Warren in time and range.

### 13. GEOGRAPHIC NAMES

of

A complete investigation/geographic names was not made. Prepared name sheets were furnished the field party on which discrepancies were noted. Questions concerning names arising from these discrepancies were answered on the prepared sheets. No formal report was prepared.

### 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Triangulation Data, Project 25120, original copies, forwarded to Washington 30 Nov. 1956, Pkg. No. 57-019

Triangulation Data, Project 25120, duplicate copies, forwarded to Washington 30 Nov. 1956, Pkg. No. 57-020

Graphic Control Sheets, Project 13870 (& 25120) forwarded to Washington 3 Dec. 1956, Pkg. No. 57-023

Photo-Hydro Control Data, Project 13870 (&25120) forwarded to Washington 3 Dec. 1956, Pkg. No. 57-024

Forms 567, Fixed Aids to Navigation and Landmarks for charts to be forwarded at a later date.

Forms 567, Aeronautical Aids and Landmarks for Aeronautical Charts to be forwarded at a later date.

One Map, City of Pawtucket, R. I.

One Map, Town of East Providence, R. I.

One Map, City of Providence, R. I.

One Map, City of Cranston, R. I.

One Map, Bristol County, R. I.

Submitted by:

haish y. Jilguall Isaiah Y. Fitzgerald Photogrammetric Engr.

Approved and Forwarded:

Ira R. Rubottom Chief of Party

### PHOTOGRAMMETRIC PLOT REPORT Project Ph-163

### 21. AREA COVERED

T-10472 through T-10501.

### 22. METHOD

The entire area was bridged by multiplex at a scale of 1:10,000 using the 1:30,000 scale photography. In order to obtain this scale, which was not the optimum, the multiplex was used at the maximum projection distance.

Wherever practical, the mylar projections furnished were used directly for the bridging. It was feasible to use vinylite work sheets where the bridged strips spanned several sheets. Pass points were established to control the models for subsequent delineation by Kelsh Plotter. These points were averaged between adjacent strips. Adjustment was less than 0.5 mm.

### 23. ADEQUACY OF CONTROL

Horizontal control complied with project instructions and was adequate. In certain areas it appears that control was over-abundant. Nevertheless, it must be realized that many points were not well-defined in the models. Points such as small towers and stacks, spires and chimneys were not always sharp enough to be pin-pointed. Of over 150 horizontal points used in the bridging, 38 or 25% were reported as "difficult to see" when the bridges were run.

Only two horizontal points were reported not held. See letter to Chief, Photogrammetry Division and sketch of control, attached.

### 24. SUPPLEMENTAL DATA

None.

### 25. PHOTOGRAPHY

Quality of photography was good. Coverage and overlap were adequate.

Respectfully submitted

Henry P. Eichert

27 March 1959

Super. Carto. (Photo.)

### NARRAGANSETT BAY

PH-163

### VERIFICATION OF HORIZONTAL DATUM

of T-10472 and T-10473

October 1958

\* Graphic Control
(plane toble)

Maps T-10472 and T-10473 were tested on the stereoplanigraph by setting models 56W-177-178 and 56W-178-179. Differences in position of a number of hydro stations occur between the original stereo instrument survey used in the field (Field No. PH 1-A N/S) and the final photogrammetric surveys. There is a datum shift between Coast and Geodetic Survey control on T-10472 and a combination of Massachusetts Geodetic Survey and the U. S. Geological Survey control on T-10472 and T-10473. From an adjustment of these differences it was determined that the photogrammetric positions of hydro signals and shoreline on T-10472 and T-10473 could not be shifted any appreciable amount. Until such time as additional C&GS horizontal control is established in the area no further adjustments are recommended. The maps are acceptable and are within the horizontal accuracy standards.

Submitted:

Approved:

Wantan Vallan

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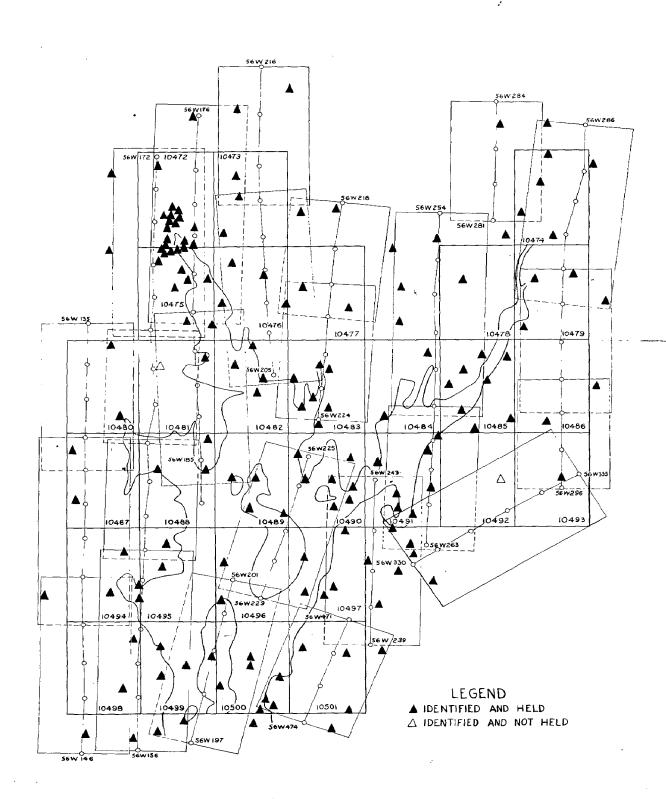
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No. 19 Comments

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SKETCH OF CONTROL
PROJECT Ph-163
NARRAGANSETT BAY, MASS.-R.I.
MULTIPLEX BRIDGING



U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

ORM 164 4-23-54)

COAST AND GEODETIC SURVEY

N   Standard   Control	MAP T. 10472		11	PROJECT NO.	Ph-163	3	SCALE OF MAP.	<u> </u>	1:10,000	SCALE FACTOR	JR 1.000
N.A.   Lin   Lip   19.615   1100.6   750.5     N.A.   Lin   Lip   100.603   221.6   1165.1     N.A.   Lin   Lip   100.866   228.8   1522.3     N.A.   Lin   Lip   100.735   116.1   1705.0     N.A.   Lip   Lip   100.735   116.1   1705.0     N.A.   Lip   Lip   13.50.8   13.50.8     N.A.   Lip   Lip   13.50.8   13.50.8     N.A.   Lip   Lip   Lip   13.50.8     N.A.   Lip   Lip   Lip   13.50.8     N.A.   Lip   Lip   Lip   Lip   Lip     N.A.   Lip   Lip   Lip   Lip   Lip     N.A.   Lip   Lip   Lip   Lip   Lip     N.A.   Lip   Lip   Lip   Lip   Lip   Lip     N.A.   Lip   Lip   Lip   Lip   Lip   Lip     N.A.   Lip   Lip   Lip   Lip   Lip   Lip   Lip     N.A.   Lip   Lip   Lip   Lip   Lip   Lip   Lip     N.A.   Lip   Li	STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE	E OR #-CL	OORDINATE OORDINATE	DISTANCE FRO. OR PROJECTION FORWARD		DATUM	N.A. 1927 - DATUM  DISTANCE FROM GLID OR PROJECTION LINE IN METERS FORWARD (BACK)	DISTA PROJE ETERS
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1.5.) Comp. " 11 52 276.60 1574.50	PROVIDENCE NARRA- GANSETT ELEC. CO. BLACK STACK, 1956	<b>=</b>	799	4 5	119	04.735 25.714	146.1	1705.0			
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DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

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FROM GRID OR PROJECTION LINE
IN METERS COMM- DC- 57843 (BACK) 2 1,000 8 August 1957 FORWARD SCALE FACTOR (BACK) N.A. 1927 - DATUM DATE. FORWARD DATUM снескер ву. Ј. С. Cregan 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) 1661.3 1166.3 954.0 849.5 128.1 658.3 15.0 963.8 762.2 106.6 103.4 889.5 ٦. م 229.0 1624.0 1211.6 1373.4 1222.4 877.2 1036.5 130h.9 110.0 7.011 SCALE OF MAP FORWARD 189.8 218.2 1723.0 430.9 726.5 421.0 973.9 622.4 535.3 79.9 227.1 244.1 1836.0 173.2 477.7 162.3 1744.5 348.3 195.3 1778.3 1747.7 1849.3 1622.1 1741.1 06.152 LONGITUDE OR x-COORDINATE 99.156 52.576 23.192 LATITUDE OR V-COORDINATE 55.848 31.474 59.509 07.505 31.566 56.667 59.850 18.670 15.485 57.639 18.242 56.543 56,433 21.457 07,031 26,968 03.463 15,091 07.361 10.577 24 July 1957 Ph-163 요 24 **8** 57 9 8  $\mathfrak{S}$ 3 23 23 2 9 77 2 24 8앜 9 8 9 9 PROJECT NO. 듸 7 7 7 크 t 71 다 Z 7 7 다 7 口 건 긐 크 7 크 크 긔 듸 7 듸 DATE. 16H DATUM 700 porcu Day ガバ Cod 500 1927 = = = = # = SOURCE OF PUTED BY. J. C. Richter p. 170 p. 168 1/1 DENCE NARRAGAN-ELECTRIC COM- P. 170 BRICK STACK, 1956 " (INDEX) p. 171 Ξ = = = = = = COVIDENCE SEEK-LIVER S. TRANS-TON TOWER, 1956 p. DENCE RHODE ( or, high school DENCE RADIO ON WRIB TOWER NOVIDENCE SEEK ON TOWER, 1956 DENCE RIVER TRANSMISSION 8, 1956 MAP T. 10472 SPIRE, 1956 PROVIDENCE POINT RADIO TRANSMISS ION PROVIDENCE PPIPE, 1956 DENCE RIVER DENCE HOPE HILL, 1956 = 3048006 METER STATION DENCE E 1956



COAST AND GEODETIC SURVEY U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT 54 L-45

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MAP T. 10472		PROJE	PROJECT NO	Ph-163	<u>5</u>	SCALE	SCALE OF MAP 1:10,000	0000	SCALE FACTOR 1.000	⊃R 1•000
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TOWER, 1932	p. 37	=	17	24	116.14	967.2	117.5			
PROVIDENCE UNIT-	ן 3-6285 ונרר ה	_	ц	61	27.35	843.8	1007.3			
	F* 114		n	24	20,19	1,65.9	918.7			
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	or 17	t	77	25	31.93	736.4	647.4			
81 (U.S.G.S.) 1934			ए	겂	40.50	1249.5	ĺ		W of Project Limit	<u></u>
	of 17	F	7.1	22	49.35	1138.3	245.6	:		
359(U.S.G.S.) 1934									W of Project Limit	1
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CENTRAL FALLS HIGH SCHOOL CUPOLA,	0-6522 p. 133	N‼A.	다	53	13.991	431.7	1419.5		N of Project Limit	
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		 	17	53	09.082	280.2			N of Project Limit	
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PROVIDENCE CONGRE-	G-6285	2	17	49	12,37	381.6	1469.5			5)
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1 FT. = ,3048006 METER J. G. COMPUTED BY:	C. Richter	***************************************	DATE	24 Ju	24 July 1957		снескер ву. Ј. С. Стедап	. Cregan		8/8/57 COMM- DC- 57843
		_								

### COMPILATION REPORT Project Fh-163 T-10472

### 31. DELINEATION

The Kelsh Plotter was used for delineation.

### 32. CONTROL

Horizontal control was adequate. Refer to the attached report, "Verification of Horizontal Datum". Vertical control is inapplicable.

### 33. SUPPLEMENTAL DATA

Final name standard dated 5 March 1957.
Map of City of Providence, edition of 1955.
Map of the City of Pawtucket, 1950.
Map of the town of East Providence, 1954.
Copy of Boat Sheet H-8316 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 were thorough.

No low water or shoal lines shown on the manuscript.

### 36. OFFSHORE DETAILS

No comment.

### 37. LANDMARKS AND AIDS

Form 567 was submitted for 22 landmarks and 4 aids.

### 38. CONTROL FOR FUTURE SURVEYS

Forms 524 are submitted herewith for five (5) recoverable topographic stations. Positions were established during delineation by Kelsh plotter from identification and measurements furnished by the field inspection party. These are among those listed under item 11 of the Field Inspection Report.

Refer to the attached notes regarding the photo-hydro stations in the area of the 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.

Refer, also, to the attached report: "Verification of Horizontal Datum" regarding positions of photo-hydro signals in this area.

### 39. JUNCTIONS

To the east with T-10473.

To the south with T-10475.

There are no contemporary surveys to the north and west.

### LO. HORIZONTAL AND VERTICAL ACCURACY

No comment.

### 41. BOUNDARIES

The Providence-East Providence boundary was delineated from the map of the City of Providence in the vertical projector.

The limits of several parks and cemeteries were office delineated using the city maps as a guide.

42 - 45. Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

U.S.G.S.  $7\frac{1}{2}$  minute quadrangle Providence, R. I., scale 1:24,000, edition of 1957 reprinted 1959.

### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 352, scale 1:10,000, edition of 1/9/45. Revised 6/6/55. Chart No. 278, scale 1:20,000, 10th edition 11/11/46. Revised 8/25/58.

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

Approved and forwarded

William J. Deane

William F. Deane,

CDR. C&GS

Baltimore District Officer

Respectfully submitted

3 April 1959

Joseph D. McEvoy Carto. (Photo.)



### PHOTOGRAMMETRIC OFFICE REVIEW

T. 10472

1, Projection and grids2. Title3. Manuscript numbers4. Manuscript size
1, Projection and grids2: Title3. Manuscript numbers4. Manuscript size4.
CONTROL STATIONS 4a. Classification label
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids to navigation17. Landmarks18. Other alongshore physical features19. Other along-
to navigation17. Landmarks18. Other alongshore physical features19. Other along -
shore 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
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms
40. 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. Bronken baker
S-G.B. anken baker  Compiler  W.O., NOV., 1966  Supervisor
43. Remarks:

сомм- ос 34529

# REVIEW REPORT Planimetric Maps T-10472, T-10473, T-10475 and T-10476 November 1966

### 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 The verifier (H-8316) encountered considerable difficulty in adjusting hydrographic information. 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:

Chief, Photogrammetric Branch

1. Kalph Soviesalski Chief, Photogrammetry Division

JAN 3 0 1968

Chief. Marine/Chart Division

Form 567 April 1945

U.S. DEPARTMENT OF COMMERCE COAST AND EODETIC SURVEY

# MONITORING AND PARTY LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED TOP BE CORICEANED

Baltimore, Maryland

13 March

I recommend that the following objects which have (1446/1461) been inspected from seaward to determine their value as landmarks be charted on (1444/1444) the charts indicated.

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

									TO COLIFE	زن	Chief of Party.
	RHODE ISLAND				POSITION			METHOD		THA	ТВАН
			1	LATITUDE .	LON	LONGITUDE #		LOCATION	DATE OF		CHARTS
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	Black Stack, 1956)						1				
STACK	concrete, ht=330(333) (A Provi-	ZIG	67 17	09.686	71 24	23.804	**	#	10/56		278, 352
	Grey Stack, 1956)										
TOWER	ht=413(428) (A Providence Industrial Trust Building	DUS	61 11	856.1	71 24	41.911	=	=	K/11/64		278, 352,
	Tower, 1932)		]	$\bot\bot$	1				~ /5-	4	225
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ļ	Court Bldg., Spire, 1956)		,	╁┸-	1	╁┷			22/24	4	255 (0)2
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CUPOLA	10	1956)		+ -	4	218-2	#	#	2 2	\$ ×	11
Ì	green, ht-142(312) (A Providence First Church of Christ Scientist,	e e	]	┼╌┸╌	11	<del>                                     </del>	=	=	=		278
	Dome 1912)										
										_	

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. Comm-DC 28356

\* TABULATE SECONDS AND METERS

31)

(22

13 March 19 1959 value as landmarks be	DATE CHAPT CALLED OF POSTS.  OF MARSON CHART  INSHORE CHART  OF MARSON CHART  INSHORE CHART  INSHORE CHART  INSHORE CHART  INSHORE CHART  INSTANCE IN INSTANCE  IN IN INSTANCE IN IN INSTANCE  IN IN INSTANCE IN IN INSTANCE  IN I	10/56 x 278,352, 10/56 x 353 2 ii n n 0 x ii n n 0 x ii n n	dmarks and nonfloating of the area and not by
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GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Rhode Island)

T-10472

Bass Rock Bensley Point Bishop Point Blackstone Park Bold Point -Cold Spring Point Corliss Park Crook Point Davis Park -East Providence Fairlawn Fort Hill - Fox Point -Gingerbread Island · Goose Point Hopkins Park

India Point Bridge Lippitt Memorial Park -Moshassuck River North Providence

oak Hill Park Metcalf Park India Point Point Street Bridge Aldrich Field Brown Field West River Reservation Swan Point Pexter street Playground Upper Canada Pond Tockwotton Park Tunnel Bridge

Pawtucket Prospect Terrace Park Providence Providence River Regatta Point -Seekonk River Seekonk River Park Stony Point Veterans Memorial Park Wanskuck -Wanskuck Pond -Washington Bridge .West River

. Windmill Hill Witherby Park -Woodlawn

·Woonasquatucket River

York Pond

Approved by:

Marieville

-Pancake Island Sale Hill Park Mercall Park

A. Joseph Wraight

Chief Geographer

Prepared by:

Frank W. Pickett

Cartographic Technician

# NOTE TO REVIEWER T-10472

The tidal bench mark at Red Bridge was identified in the office.

The new Providence quadrangle shows the completion of a new bridge north of the Point Street Bridge, and the interchange just to the east. In the northwest corner of this survey the new quadrangle indicates completion of a new highway (Lowisquissett Pike) as far as Wanskuck.

Refer to Note to Reviewer, T-10475 - regarding boundaries in Providence River.

The map manuscript was compared with copies of graphic control sheets Nos. PH-1-A-N/2 - 56, PH-1-A-S/2 - 56 and Ph-1-B-56, Projects Nos. 13870, 25120 and 6163, scale 1:10,000. The following is a list of photo-hydro stations, indicating how far and in what direction the photogrammetric position falls from the common point on the graphic control sheet.

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 are not shown on the print of the map manuscript.

Station	Name	

## Photogrammetric Position

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	\ 1	O mm 1	₩.
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ROF (Description states 5% corner of building.			
(field photograph, No corner of building.	)		
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KAM,		6 mm	
LOG		2 mm	
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		.1 mm	
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TIB		.7 mm	
CUT	0	.6 mm	NNW
CIZ		.6 mm	
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BUTLER'S (USE) ( Rec. Topo.)			
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FAT		3 mm	
EAR		).8 mm	
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			•

Station not identified: PET OWL ADA NUT

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

Respectfully submitted 17 September 1958

Leroy A. Senasack Carto. Photo. Aid

Approved and forwarded

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

FORM C&GS-8352	~~~
(3-25-63)	. •

### NAUTICAL CHART DIVISION

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10472

### 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	Part REMARKS
278	8-14-69	O. Chypman	Full Particle After Verification Review Inspection Signed Via
			Drawing No.25 Exam No.Corn
352	12-4-69	Jeff Stuart	Fill Law Before After Verification Review Inspection Signed Via
			Drawing No. ade applied until reconst
353	12-16-70	H. Danley	Full Part Butter After Verification Review Inspection Signed Via
			Drawing No.
278	2-16-73	w chall	Full After Verification Review Inspection Signed Via
			Drawing No. Revised roads in several places
		70	

