

# 5608

Diag'd. on Diag. Ch. No. 1215-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. PH-16(47) Office No. T-5608

### LOCALITY

State New York

General locality Long Island

Locality Canarsie Pol to Head of Bay

194 7

CHIEF OF PARTY

R.J.Sipe

LIBRARY & ARCHIVES

DATE December 19, 1949

B-1870-1 (1)

5608

# DATA RECORD

T - 5608

Project No. (II):  
PH-16(47)

Quadrangle Name (IV):

Field Office (II):  
West Hempstead, New York

Chief of Party:  
Riley J. Sipe

Photogrammetric Office (III):  
Baltimore, Maryland

Officer-in-Charge:  
Thos. B. Reed

Instructions dated (II) (III):  
10 September 1947  
2 March 1948

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 3-29-48 Date reported to Nautical Chart Branch (IV): 4-1-49

Applied to Chart No. 579  
542

Date: MAY 1949  
6-1-49

Date registered (IV): 11-9-49

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): North American 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): AQUEDUCT, 1932

Lat.: 40° 39' 59.179" 1825.4m Long.: 73° 49' 55.830" 1311.4m

Adjusted  
unadjusted

Plane Coordinates (IV):

State: N.Y.

Zone: Long Island

Y= 160,681.36

X= 2,046,559.30

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): I. Y. Fitzgerald

Date: October 1947

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

Same as date of photographs supplemented by field inspection, October 1947.

Projection and Grids ruled by (IV): H. R.

Date: 11/14/47

Projection and Grids checked by (IV): T.L.J.

Date: 11/14/47

Control plotted by (III):  
John C. Richter

Date:  
4/20/48

Control checked by (III):

Date:

Frank J. Tarcza

4/29/48

Radial Plot or Stereoscopic

Date:

Control extension by (III): Frank J. Tarcza

6/7/48

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): Ruth E. Rudolph

Date: 3/3/49 to 3/21/49

Photogrammetric Office Review by (III): Joseph Steinberg

Date: 3/23/49

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

Date:



Camera (kind or source) (III): U.S.Coast and Geodetic Survey single lens camera,  
type D, focal length 12".

Number	Date	Time	Scale	Stage of Tide
47-D-65 to 47-D-71 incl.	5/27/47	1010	1:10,000	0.6' above MLW
47-D-111 to 47-D-117 incl.	5/27/47	1020	1:10,000	0.8' above MLW
47-D-120 to 47-D-127 incl.	5/27/47	1035	1:10,000	1.0' above MLW
49-O-445 to -449, incl. 49-O-428 to -431, incl. (C&GS) 4/28/49			1:24,000	Available in Photogrammetry Div. Files but not used in this compilation. ERR

Tide (III)

Reference Station: Sandy Hook, N.J.  
Subordinate Station: Grassy Bay (Bridge)  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	4.6	5.6
1.1	5.2	6.3

Washington Office Review by (IV): Everett H. Ramey

Date: 19 Sept 1949

Final Drafting by (IV): Baltimore Office

Date:

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

Date: 1-25-51

Proof Edit by (IV): W. Streifer

Date: 4/18 51

Land Area (Sq. Statute Miles) (III): 14.5

Shoreline (More than 200 meters to opposite shore) (III): 18 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 16 statute miles (measured along  
Control Leveling - Miles (II): approximate centerline)

Number of Triangulation Stations searched for (II):

Recovered: 7 Identified: 6

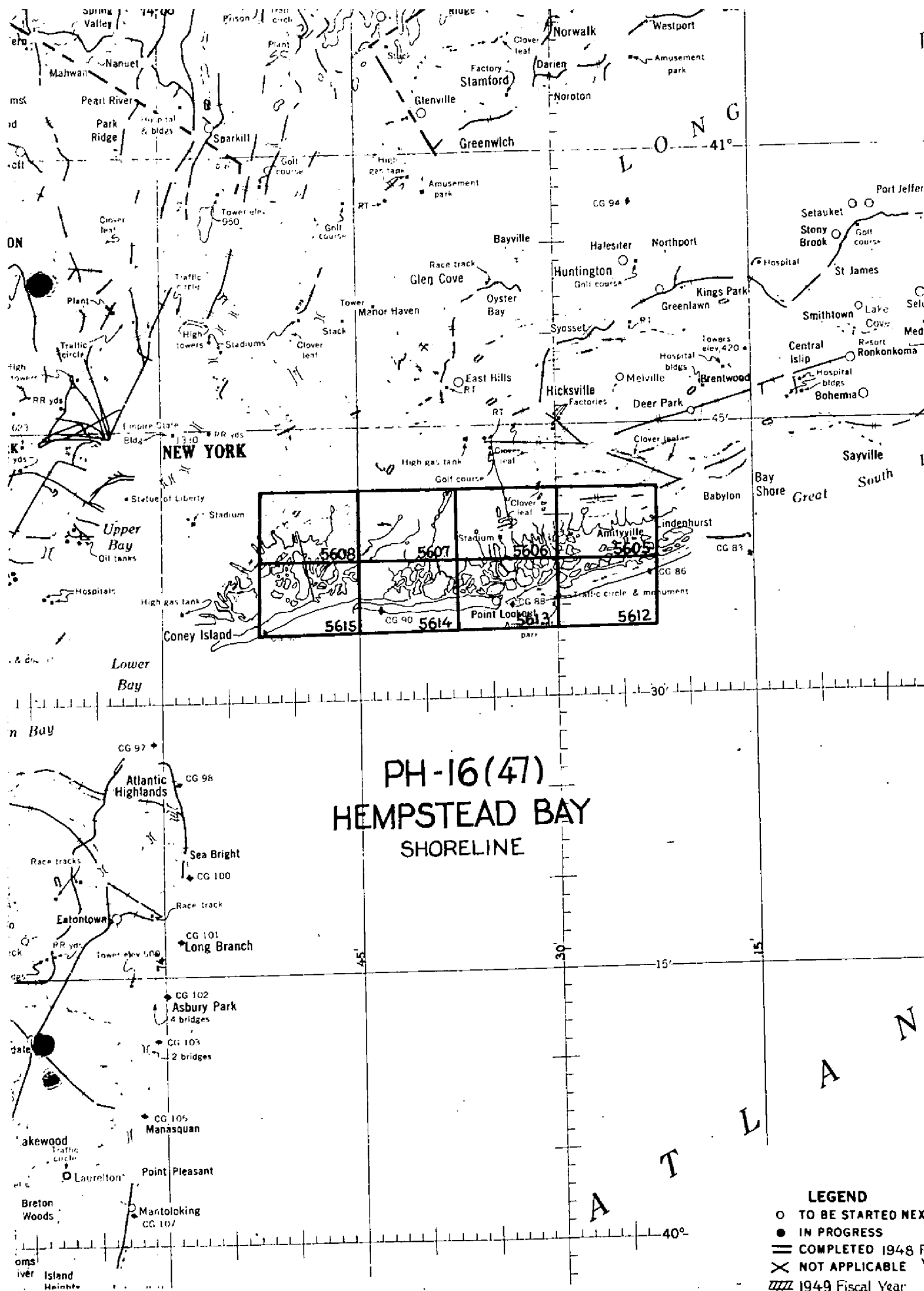
Number of BMs searched for (II): none

Recovered: Identified:

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 7

Remarks:





MAP T-5608

PROJECT NO. PH-16(47)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -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)
HEAD, 1926	NY-Vic. Pg. 17	N.A. 1927	40 38 34.708			1070.6 (780.1)	
SPRINGFIELD GARDENS, GREAT NORTHERN FUR DYEING & DRESSING CO TANK, 1931	N.Y. & Vic. Pg. 89	"	73 45 04.756			111.8 (1298.1)	
	N.Y. & Vic. Pg. 4	"	40 39 38.978			1202.3 (648.4)	
		"	73 45 11.254			264.4 (1145.1)	
SPRINGFIELD, 1932	N.Y. & Vic. Pg. 4	"	40 39 41.469			1279.2 (571.6)	
	G-1228 Pg. 225	"	73 46 01.999			47.0 (1362.5)	
JAGER, 1903-08		"	40 39 01.734			53.5 (1797.2)	
		"	73 46 00.906			21.3 (1388.4)	
P.S. 124, 1931	N.Y. & Vic. Pg. 17	"	40 39 54.871			1692.6 (158.2)	
GOOSE, 1931	G-2477 Pg. 72	"	73 48 43.074			1011.8 (397.6)	
AQUEDUCT SCHOOL HOUSE, 1908		"	40 38 04.581			141.3 (1709.4)	
		"	73 49 44.789			1052.6 (357.4)	
AQUEDUCT, 1932	N.Y. & Vic. Pg. 4	"	40 39 57.230			1765.3 (85.4)	
		"	73 49 43.644			1025.2 (384.1)	
NW BRIDGE ABUTMENT, 1931		"	40 39 59.179			1825.4 (25.3)	
		"	73 49 55.830			1311.4 (97.9)	
		"	NO GEOGRAPHIC POSITION AVAILABLE. WAS TRANSFERRED FROM SHEET T-5094				
		"	(G.P. given below. Agrees with radial plot position to within 0.2 mm. Error)				
SPRING CREEK 1908	G-2477 Pg. 72	"	40 39 08.783			270.9 (1579.8)	
		"	73 51 16.268			382.2 (1027.5)	
EAST NEW YORK SEWAGE SCREENING PLANT, CHIMNEY, 1931	N.Y. & Vic. Pg. 87	"	40 39 15.785			486.9 (1363.8)	
CANARSIE, SANITARY LAUNDRY STACK, 1934	G-4352 Pg. 245	"	73 52 50.452			1185.3 (224.3)	
		"	40 37 50.331			1552.5 (298.2)	
		"	73 53 21.282			570.7 (839.4)	

School House not  
visible on photo -  
graphs. Removed  
from manuscript. Error

1 FT. = 3048006 METER  
COMPUTED BY: J.C. Richter

DATE 4/20/48

CHECKED BY: M. F. Kirk

DATE 26 April 1948

M. 2388-12



MAP T-5608

PROJECT NO. PH-16(47)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
CANARSIE PARK, 1908	N.Y.- P.215 Vic.	N.A. 1927	40 37	51.648				1593.1	(257.6)		
			73 53	31.569				741.9	(668.2)		
CANARSIE, "THE WHITE HOUSE" FLAGPOLE, 1931	N.Y.- P.87 Vic.	"	40 37	52.115				1647.6	(203.1)		
			73 53	27.119				638.1	(772.0)		
PUBLIC SCHOOL NO. 115, 1931	N.Y.- Pg. 4 Vic.	"	40 38	04.626				142.7	(1708.0)		
			73 53	52.488				1233.5	(176.5)		
BROWNSVILLE BROOK- LYN ASH INCINERATOR CHIMNEY, 1931	N.Y.- Pg. 87 Vic.	"	40 39	12.039				371.4	(1479.4)		
			73 53	25.103				589.8	(819.8)		
SUB POINT GOOSE, 1931		"						Plotted			
								graphically.			
SUB POINT HEAD		"	40 38					1063.9	(786.8)	Sub Pt for radial plot. ENR	
			73 45					102.2	(1307.7)		
SUB. PT. AQUEDUCT, 1932		"	40 40					2.4	(1848.3)	Sub Pt for radial plot. ENR	
			73 49					1281.3	(128.0)		
SCHOOL HOUSE No. 64, 1908-08	N.Y. P.227 Vic.	N.A. 1927	40 40	52.715				1626.0	(224.8)		
			73 51	26.012				610.9	(798.1)		
SPRINGFIELD SCHOOL 1903-08	N.Y. P.228 Vic.	"	40 40	20.240				624.3	(1226.5)		
			73 45	33.347				783.2	(626.0)		
JAMAICA BAY, WABC NORTH-RADIO-POWER, 1931	N.Y. P.90 Vic.	"	40 37	30.620				944.5	(906.2)	Tower destroyed. Only pieces remain. ENR	
			73 49	41.695				980.0	(430.2)		
MW Bridge Abutment, 1931		"	40 38	39.31				1212.6	(638.2)	Plotted during review	
			73 50	12.62				296.6	(1113.2)		

1 FT. = 3048006 METER

COMPUTED BY: J.C. Richter

DATE 4/20/48

CHECKED BY: M.F. Kirk

DATE 26 April 1948

M-2388-12

FIELD INSPECTION REPORT  
T-5608  
(40-37.5 / 73-45.0)  
Project Ph-16(47)  
R.J. Sipe, Chief of Party

This report is for one of eight shoreline sheets comprising Project Ph-16(47). Information contained herein is that which applies, in general, to this sheet alone. Field Inspection Report, Project Ph-16(47) contains information which applies to the project as a whole; and, to which this report is cross referenced.

*It is filed in Div. of Photogrammetry General Files.*

1. DESCRIPTION OF THE AREA:

The water area of this sheet is the northern section of Jamaica Bay.

The land area is similar to that described in Field Inspection Report T-5605.

2. COMPLETENESS OF FIELD INSPECTION:

See Field Inspection Report, Project Ph-16(47).

3. INTERPRETATION OF THE PHOTOGRAPHS:

See Field Inspection Report, Project Ph-16(47).

4. HORIZONTAL CONTROL:

Seven C & G S triangulation stations were recovered and identified for control of the plot. Two other C & G S triangulation stations were recovered and identified as landmarks.

7. MEAN HIGH WATER LINE:

See Field Inspection Report, Project Ph-16(47).

8. LOW WATER LINE:

See Field Inspection Report, Project Ph-16(47).

9. WHARVES AND SHORELINE STRUCTURES:

See Field Inspection Report, Project Ph-16(47).

10. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

See Field Inspection Report, Project Ph-16(47).

11. LANDMARKS AND AIDS TO NAVIGATION:

See Field Inspection Report, Project Ph-16(47).

12. HYDROGRAPHIC CONTROL:

Seven photogrammetric hydrographic stations were identified. These stations are flag poles, corners of piers, dolphins, etc. A list of these is attached.

No recoverable topographic stations were established.

15. BRIDGES:

See Field Inspection Report, Project Ph-16(47).

18. GEOGRAPHIC NAMES: 814 ✓

See special Geographic Names Report by Mr. A. J. Wraight, Topographic Engineer.

19. COAST PILOT INFORMATION:

See Field Inspection Report, Project Ph-16(47).

Submitted:  
18 November 1947

*I. Y. Fitzgerald*  
I. Y. Fitzgerald,  
Cartographer

COMPILATION REPORT

MAP MANUSCRIPT

SURVEY NO. T-5608

Manuscript T-5608 is one of eight shoreline surveys in Project No. PH-16(47) located on Long Island. This manuscript covers the area along the north shore of Jamaica Bay from Canarsie Pol to Head of Bay and includes the ~~Idlewild~~ <sup>N.Y. International</sup> Airport. Survey T-5608 has been compiled in accordance with project instructions dated 2 March 1948.

26. CONTROL

For layout of control on this manuscript, refer to the radial plot report. A list of control stations on Form M-2388-12 is included in this report.

Control station NW BRIDGE ABUTMENT, 1931 was recovered and identified by the field party. The geographic position for this station was not available; however, the radial plotted position has been shown on the manuscript. *This station was computed by Geodesy Div. during the review of this sheet and plots within 0.2 mm of radial plot position. ENR*

27. RADIAL PLOT

Refer to the Radial Plot Report for Surveys Nos. T-5607, T-5608, T-5614, and T-5615 submitted to the Washington Office 23 June 1948. The position of SUB. PT. AQUEDUCT, 1932, discussed in the radial plot report, has since been corrected. The azimuth of RM No. 4 was in error and the SUB. PT. was re-computed and is now shown on the manuscript in its correct position. See letter from Chief, Division of Photogrammetry No. 711-aal, dated 15 July 1948, ~~attached to this report.~~ *Radial Plot Report in Div. of Photogr. General Files.*

28. DELINEATION

Compilation is in accordance with Photogrammetry Instructions No. 17 dated 15 September 1947 and with the project instructions dated 2 March 1948.

Limits of marsh areas, high ground and interpretation of other inland features were determined after careful stereoscopic examination <sup>N.Y.</sup> of the photographs. The double dashed runways under construction at ~~Idlewild~~ <sup>N.Y. International</sup> Airport were taken from Airport Obstruction Plan 610. Evidence of the other two runways under construction was apparent on the photographs and these runways were delineated from the photographs. *Details on airport, as drainage, roads and buildings are likely to change as construction progresses. ENR*

A cable area shown on chart No. 542 in the area of North Channel Bridge was not delineated because its location was not furnished the compilation office. *Not covered by field inspection. ENR*

*1 Dec. 1949 An airport survey of New York International, for the purpose of drawing an obstruction plan, was completed in Nov. 1949. Refer to O.P. No. 610 for later information concerning Airport details. B.H. Kiach.*



30. MEAN HIGH WATER LINE

The mean high water line has been delineated in accordance with the field inspection.

31. MEAN LOW WATER LINE

*The mean low water line is shown as identified by field inspection and only that portion of the mean low water line identified by field inspection has been shown on the manuscript. It is subject to verification or completion during hydrographic surveys. ENR*

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

No comment. *Subject to verification or completion by hydrographic survey party. ENR*

33. WHARVES AND SHORELINE STRUCTURES

No comment *Shown as per field inspection and some office interpretation. ENR*

34. LANDMARKS AND AIDS TO NAVIGATION

One previously charted and one new landmark recommended for charting by the field party were located on the manuscript.

The position of these landmarks are reported on Form 567 submitted with this report.

35. HYDROGRAPHIC CONTROL

Seven photo hydro stations were located on the manuscript. For descriptions of these stations refer to the list in field report attached to this report.

36. LANDING FIELDS AND AERONAUTICAL AIDS

The ~~Idlewild~~ <sup>International</sup> New York Municipal Airport is located within the limits of this survey. See par. 28.

37. GEOGRAPHIC NAMES

Geographic names were taken from a final names standard furnished by the Washington Office. A list of names is attached to this report.

38. JUNCTIONS

Junction has been made with T-5615 to the south and with T-5607 to the east and found to be in good agreement. There are no contemporary surveys to the north or to the west.

41. BRIDGES

Refer to field report for list of bridge discrepancies.



#### 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

Using the vertical projector comparison was made between T-5608 and the U. S. Army Engineers' Jamaica, N.Y. quadrangle, scale 1:25,000 published in 1943.

West of Cross Bay Boulevard the shoreline and Shore Parkway are shown on the quadrangle from 2.0 to 4.0 mm. southeast of that shown on the manuscript. Cross Bay Boulevard is from 1.0 to 3.0 mm west and the shoreline and roads in that vicinity are 2.5 mm to the west. Long Island Railroad is not over 0.5 mm. to the west. East of the railroad there was no comparison as <sup>N.Y. International</sup> Idlewild Airport has been built since the quadrangle was published. Sunrise Highway seems to be, in general, in good agreement, not over 0.5 mm. off in any place. X

#### 44A. COMPARISON WITH EXISTING PLANIMETRIC SURVEYS

Comparison was made with U. S. Coast and Geodetic Survey No. T-5094, scale 1:10,000, and found to be in generally good agreement with the exception of the shoreline at Canarsie Pol. On the eastern side the shoreline has built up as much as 10.0 mm. and on the western side as much as 7.5 mm. However, at the northern tip it has eroded 5.0 mm.

T-5608 was also compared with U.S. Coast and Geodetic Survey No. T-5063, scale 1:10,000, and found to be in generally good agreement except for man made changes caused by building <sup>N.Y. International</sup> Idlewild Airport.

#### 45. COMPARISON WITH NAUTICAL CHARTS

T-5608 was compared with U. S. Coast and Geodetic Survey Chart No. 542 published September 1948 (25th Edition) scale 1:20,000 using the vertical projector. The two surveys are in good agreement except for man made changes.

No indications of a submerged pipe near North Channel Bridge, shown on the chart could be found by the field party. Two submerged wrecks south of the pipe have not been shown because no information was available.

*See par. 28, this report.*

This manuscript was also compared with U. S. Coast and Geodetic Survey Chart No. 1215, published Feb. 1947, scale 1:80,000. Due to the great difference in scale, minute comparison was not possible. Except for man made changes the two surveys are, in general, in good agreement.

The following topographic information shown on Survey T-5608 is of sufficient importance to warrant immediate application to the chart:

None.

45. COMPARISON WITH NAUTICAL CHARTS (Continued)

The following topographic details above the plane of MHW are not shown on this manuscript but are believed to still exist and should be carried forward on the chart:

None.

Low water features are shown in part and should be completed by the hydrographic party.

Respectfully submitted  
22 March 1949

Lucas E. Rudolph  
Engineering Draftsman

Joseph Steinberg  
Photogrammetrist  
Photogrammetric Office Review

Harry R. Rudolph  
Supervisor

Approved and forwarded  
25 March 1949

Thos B. B. B.  
Officer in Charge  
Baltimore Photogrammetric Office

1/2



PHOTOGRAMMETRIC HYDROGRAPHIC STATIONS  
T-5608

No.	Photo.	Description
0801	47 D 114	Flag Pole.
0802	47 D 115	Red brick stack.
0803	47 D 116	Flag Pole.
0804	47 D 69	Dolphin on NW corner of pier.
0805	69	Dolphin on SE corner of pier.
0806	47 D 67	Center of switch house.
0807	67	Flag Pole.

# GEOGRAPHIC NAMES

- Bergen Basin ✓
- Black Bank Marsh ✓
- Broad Channel ✓
- Broad Creek Marsh ✓
- Canarsie Pol ✓
- Cross Bay Boulevard ✓
- Duck Point Marshes ✓
- East High Meadow ✓
- Elders Point Marsh ✓
- Goose Creek (railroad-station) ✓
- Goose Creek ✓
- Grassy Bay ✓
- Green Point ✓
- Hamilton Beach ✓
- Hawtree Creek ✓
- Hassock Creek ✓
- Head of Bay ✓
- Howard Beach ✓
- ~~Lalanda~~, New York <sup>International</sup> Municipal Airport
- Jacks Hole Creek ✓
- Jamaica ✓
- Jamaica Bay ✓
- Long Island Railroad ✓
- North Channel Bridge ✓
- Old Mill Creek ✓
- Pagan Creek ✓
- Pumpkin Patch Channel ✓
- Pumpkin Patch Marsh ✓
- Rulers Bar Hassock ✓
- Shellbank Basin ✓
- Shore Parkway ✓ State No. 27A
- Straight Creek ✓
- Sunrise Highway ✓ State No. 27
- Swift Creek ✓

Names preceded by .  
are approved . 6-24-49  
L. Heck

Review Report  
Shoreline Map T-5608  
19 September 1949

44. Comparison with Existing Maps.-

A. Quadrangle			
Jamaica, N. Y.	1:25,000	1943	
(C of E)			
B. Planimetric			
T-4	1:20,000	1835	
535	"	1855-56	
1448	1:5,000	1877	
1482	1:10,000	1878	
3478	"	1914	
4408	"	1928	
3476	"	1914	
5094	"	1933-34	
5063	"	"	
6200	"	1934	
6199	"	"	
6201	"	"	

*This map supersedes the surveys for nautical charting purposes.*

45. Comparison with Nautical Charts.-

542	1:20,000	Mar. 1944
1215	1:80,000	Feb. 1947

47. Adequacy of the Compilation.-This compilation is adequate for the shoreline and areas immediately adjacent. Details below the plane of mean high water are subject to completion or verification by hydrographic surveys. See Par. 28 and Par. 45 of Compilation Report. This map meets the required standards of map accuracy and complies with project instructions.

Reviewed by:

Everett H. Ramey  
Everett H. Ramey

APPROVED

L. V. Griffith  
Chief, Review Section  
Division of Photogrammetry

J. R. Edmondson  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

W. M. Scaife  
Chief, Div. of Coastal Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. 5608

## Record of Application to Charts

[illegible]

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.