6127

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic / ~~*Hydrographic*~~ *Sheet No.* G 6127

State New York

LOCALITY

New York Harbor

Ellis Island to Constable Hook Pt. U.S.G.S.

1934

CHIEF OF PARTY

I.E. Rittenburg

U.S. GOVERNMENT PRINTING OFFICE: 1934

6127

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "G"

REGISTER NO. 6127

State New York

General locality New York Harbor

Locality Ellis Island to Constable Pt.

Scale 1 : 10,000 Date of survey Sept. & Oct., 1934.

Vessel Shore Party # 15.

Chief of party I.E.Rittenburg

Surveyed by R.S.Spaulding

Inked by R.S.Spaulding

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated June 13th and Sept. 7th, 19 34.

Remarks: See descriptive report covering Topographic Field Sheet "G".

Applied to Chart 541 - July 1935 - H.L.Garrett
" " " 285 Aug " H.L.Garrett
" " " 745 Aug " H.L.Garrett

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET
"G" PROJECT H.& T. #186, UPPER BAY: NEW YORK HARBOR.

AUTHORITY:

This survey was made in accordance with orders and instructions covering H.&.T.Project #186, dated June 13th, 1934 and supplemantal orders dated Sept. 7th,1934. Field work was accomplished during September and October 1934.

LOCALITY:

The area covered by this survey extends along the New Jersey Shore from the East Entrance of the Kill Van Kull, in Lat. 40-39.1, Long. 74-05.4 to the mouth of the Hudson River, in Lat. 40-42.5, Long. 74-02.1. Including Bedloes and Ellis Islands.

CONTROL:

The basic control for this survey was the triangulation established by R.W.Woodworth in 1930 and supplemanted by various other U.S.C.&.G.S. triangulation dating from 1887.
This sheet "G" is on"North American Datum 1927".

METHODS:

All signals were built and located before any shoreline was mapped. Signals were located by obtaining at least three clear and distinct intersecting cuts to each signal, with plane table and alidade, from the positions located by the three-point fix method. Rock Piles, in Lat. 40-39.9, Long. 74-05.2 and Lat. 40-40.0, Long. 74-05.6 were located by three distinct cuts. All wrecks, wreck barges, piles, dolphins, and rocks were located by rod readings and there was no improvised sketching of any detail.

GENERAL:

The shoreline from Lat. 40-39.6, Long. 74-06.0 to Lat. 40-40.1, Long. 74-06.5 has filled out and a long neck has been formed. There are small changes in the shoreline from Lat. 40-40.6, Long. 74-06.1 to Lat. 40-40.7, Long. 74-05.6. There is an island; Lat.40-41.1, Long. 74-04.2. The shoreline has changed from Lat. 40-41.3, Long.74-04.1 to Lat. 40-41.8, Long. 74-04.1, and from Lat. 40-41.6, LOng. 74-03.3 to Lat. 40-41.7, Long. 74-03.3. The shoreline of Ellis Island shows the new wall built in 1934. Bedloe's Island has been built out; south of the dock on the west side of the island. The remainder of the shoreline has changed very little from that charted currently. All wrecks, wreck barges, piles, dolphins, can be seen at M.H.W. except when otherwise noted on the sheet. There are rock rip rap piled around Robbins Reef Lt. House. Range Line for channel to Claremont Terminal Dock was constructed in field by setting on range of lights near the Front Range, alidade place on the two Range Lts. points on the sheet, sighted on the Rear Range Lt. and the line was draw along the alidade while in this position.

LAND MARKS, PHOTO CONTROL, RECOVERABLE TOPOGRAPHIC STATIONS:

Additional land marks for charts; The following land marks are clearly visible and are good for charting, CHY. S.W. corner Ellis Id.- Topography, LAG Flagpole on Ellis Id.-Topography, POLE-Flagpole on Bedloes Id.-Topography, the two Radio Towers on Bedloes Id.- Topography. All charted land marks still exist and are good.

Photo Control Points;-

C.R.R.N.J. No. 4 U.S.E.D.	Triangulation	1931
CHY ELLIS ID.	Triangulation	1930
LAG	TOPO.	
CAT	Topo.	
TORCH STATUE OF LIBERTY	Triangulation	1887
TOW	Topo.	
R.T.	Topo.	
LEHIGH ELEVATOR	Triangulation	1930
TANK P.R.R.	Triangulation	1930
CHIMNEY	Triangulation	1930
SAND I. LT.	Triangulation	1930
ROBBINS REEF LT. H.	Triangulation	1930
BLACK STACK P.R.R.	Triangulation	1930
N. TALL TWIN CHY.	Triangulation	1930
S. " " "	Triangulation	1930

All recoverable topographic stations are described on cards, form 524 and have been forwarded to the office.

APPROVED;

I.E.Rittenburg, Lieut.
Chief-of-party, U.S.C.& G.S.

R.S.Spaulding,
Surveyor.

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APPROVED:

I.E.Rittenburg, Lieut.
Chief-of-party, U.S.C.& G.S.

R.S.Spaulding,
Surveyor.

Form 567
Rev. Jan., 1933

DIVISION OF CHARTS. FILE NO._____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

UPPER BAY, NEW YORK HARBOR.

OCTOBER, 1934.

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

I.E.Rittenburg, Lieut.
Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	° ′	D. M. METERS	° ′	D. P. METERS			
CAT (Chy) (Topo.)	40- 41	1618	74- 02	872	N.A.1927	Topo.	369, 541, 745
LAG (F.P.)	40- 41	1668	74- 02	462	"	"	369, 541, 745
POLE (F.P.)	40- 41	604	74- 02	928	"	"	" " "
TOW. (R.T.)	40- 41	834	74- 02	1134	"	"	" " "
R.T.	40- 41	730	74- 02	1068	"	"	" " "

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

U. S. GOVERNMENT PRINTING OFFICE: 1933

Form 567
Rev. Jan., 1933

DIVISION OF CHARTS, FILE NO._____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

UPPER BAY, NEW YORK HARBOR.

OCTOBER, 1934

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

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U. S. GOVERNMENT PRINTING OFFICE: 1933

To: MR. Bacon
From C.F.M.

Survey No. T 6127

GEOGRAPHIC NAMES
NEW JERSEY

Date. Dec. 7, 1934

Chart No. 369 ~~396~~

Diagram No. 369 ~~396~~-4

Names underlined in red approved Dec 15, 1934 / Harlow Bacon

*, Approved by the Division of Geographic Names, Department of Interior.

¢, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Authorities consulted
U.S. Geological Survey Quad.
U.S. Geog. Board.
Atlas Sheet #26, New Jersey
Chart 369

Status	Name on Survey	Name on Chart and other Maps	New Names in local use	Names assigned by Field	Location
	Constable Hook Point	Same	U.S.G.B. decision		
	-------	Upper Bay			
	-------	Caven Pt. U.S.G.B.			
	-------	Claremont			
	Bedloe Island U.S. Geog. Board, 6th Report				
Not	Bedloes Island	Same			
	Ellis Island	" U.S.G.B.			
	-------	Communipaw			
	Bayonne	Chart 369			
	Greenville	Atlas Sheet of N.J. Sheet 26 U.S.G.S. — Postal Guide			

Position of name changed, 9-22-36, as instructed by Capt. K.T.A.

(M 100)

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6127 (1934)

Ellis I. to Constable Pt., New York Harbor, New Jersey-New York
Surveyed September-October, 1933
Instructions dated: June 13, 1934, Sept. 7, 1934(Rittenburg)

Plane Table Survey - Aluminum Mounted.

Chief of Party - I. E. Rittenburg.
Surveyed by - R. S. Spalding.

1. Condition of Records.

The records conform to the requirements of the Topographic Manual with the following exceptions:

a. Rocks and other features which bare at low water should have been described with the number of feet they bare at low water instead of the notes, awash at $\frac{1}{2}$ tide, etc. which were used.

2. Compliance with Instructions for the Project.

The survey complies with the instructions for the project.

3. Junction with Contemporary Surveys.

Satisfactory junction was made with T-6126 (1934) on the south.

4. Comparison with Prior Surveys.

a. T-18 (1836), T-482 (1855), T-489 (1855), T-543 (1855), T-662 (1857) T-677 (1857), T-751 (1875).

These surveys were all compared with the present survey. Only a general comparison was possible because of the changes in the area due to construction and dredging.

b. T-1575 (1885), T-1579 (1885).

A comparison of these surveys with the present survey serves only to show the marked changes due to harbor improvements. Since the time of the old surveys, the whole shoreline has been changed with the exception of Bedloe Island which is now shown very nearly the same as in 1885. Neither Sand Island nor the several rock piles are shown on the former surveys. Also the former surveys do not show the rocks awash which are now shown near the south shore of Bedloe Island.

c. T-2098 (1892).

This survey embraces only Ellis Island . Since 1892 Ellis Island has been enlarged so that it now extends more than twice as far in a northeasterly-southwesterly direction.

d. T-3226 (1911).

This is a resurvey on a series of small sections of charts with changes shown in red. The area common to this survey and the present survey enbraces Bedloe Island, Ellis Island, and about 1 mile of water front to the northwest. No discrepancies in identifiable features exist except that the rocks awash off Bedloe Island are not shown on the old survey.

5. Field Drafting.

The field inking of the survey is satisfactory.

6. Additional Work Recommended.

The survey is complete and no additional work is required.

7. Superseding Old Surveys.

Insofar as the topography actually included on the present survey is concerned, it supersedes the following surveys for charting purposes:

T-18	(1836)	in part.
T-482	(1855)	in part.
T-489	(1855)	in part.
T-543	(1855)	in part.
T-662	(1857)	in part.
T-677	(1857)	in part.
T-751	(1875)	in part.
T-1575	(1885)	in part.
T-1579	(1885)	in part.
T-2098	(1892)	in part.
T-3226	(1911)	in part.

8. Reviewed by A. F. Jankowski, January, 1935.

Examined and approved:

C. K. Green, C. K. Green
Chief, Section of Field Records.

L. O. Colbert
Chief, Division of Charts.

J. S. Borden
Chief, Section of Field Work.

G. F. Lovell
Chief, Division of H. & T.

M-189

REVIEW OF GRAPHIC CONTROL SURVEY T-6127, SCALE 1:10,000

Date of Review May 27, 1937
June 15, 1937
June 28, 1937

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5468 5469, 5470, with particular attention to the following details:

(a) Projection has been checked in the Field. ✓

(b) Accuracy of location of plane table control points. ✓

(c) Discrepancies between detail on this survey and the air photo compilations listed above. ✓

(d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. ✓

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5468 5469, 5470, for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green. ✓ some - notes made only for Δs or Δφ in error.

For area covered, the photo compilation T 5468, 5469, 5470 should be used for chart compilation, as this planetable survey has been applied to that compilation and corrected as necessary, on that sheet.

T 5468, 5469, 5470
T.M. Price
May 27, '37

The projection line 74°05' was drawn 2-3 mm too far weston T 6127.

T.M.P.