

5613

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Field No. PH-16(47) Office No. T-5613

LOCALITY

State New York

General locality Long Island

Locality Lido Beach to Jones Beach

1947

CHIEF OF PARTY

R.J. Sipe

LIBRARY & ARCHIVES

DATE December 19, 1949

B-1870-1 (1)

5613

T - 5613

M-2618-12(4)

DATA RECORD

Field Inspection by (II): I. Y. Fitzgerald

Date: 9-4-47 to
9-15-47

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 *during Sept. 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): F.J.Tarcza

Date: 5-12-48

Control checked by (III): M.F.Kirk

Date: 5-49

Radial Plot or Stereoscopic

Date:

Control extension by (III):

F.J.Tarcza

8-48

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

W.J.Hughes

Date:

12-20-48 to 3-21-49

Photogrammetric Office Review by (III):

Joseph Steinberg

Date:

4/5/49 - 4/6/49

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"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
47-D-32 to 47-D-38	5-27-47	0940	1:10,000	1.3' above MLW
47-D-154 to 47-D-164	5-27-47	1050	1:10,000	0.7' above MLW

Tide (III)

Reference Station: SANDY HOOK, N.J.
Subordinate Station: LONG BEACH, outer Coast
Subordinate Station: DEEP CREEK MEADOW

Ratio of Ranges	Mean Range	Spring Range
1.0	4.6	5.6
1.0	4.5	5.4
.6	2.7	3.3

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

Date: *1 Sept 1949*

Final Drafting by (IV): *Baltimore office*

Date:

Drafting verified for reproduction by (IV): *W.D. Hallum*

Date: *1-9-51*

Proof Edit by (IV): *W.D. Hallum*

Date: *2/1 51*

Land Area (Sq. Statute Miles) (III): *10*

Shoreline (More than 200 meters to opposite shore) (III): *44*

Shoreline (Less than 200 meters to opposite shore) (III): *41*

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered: *8*

Identified: *7*

Number of BMs searched for (II):

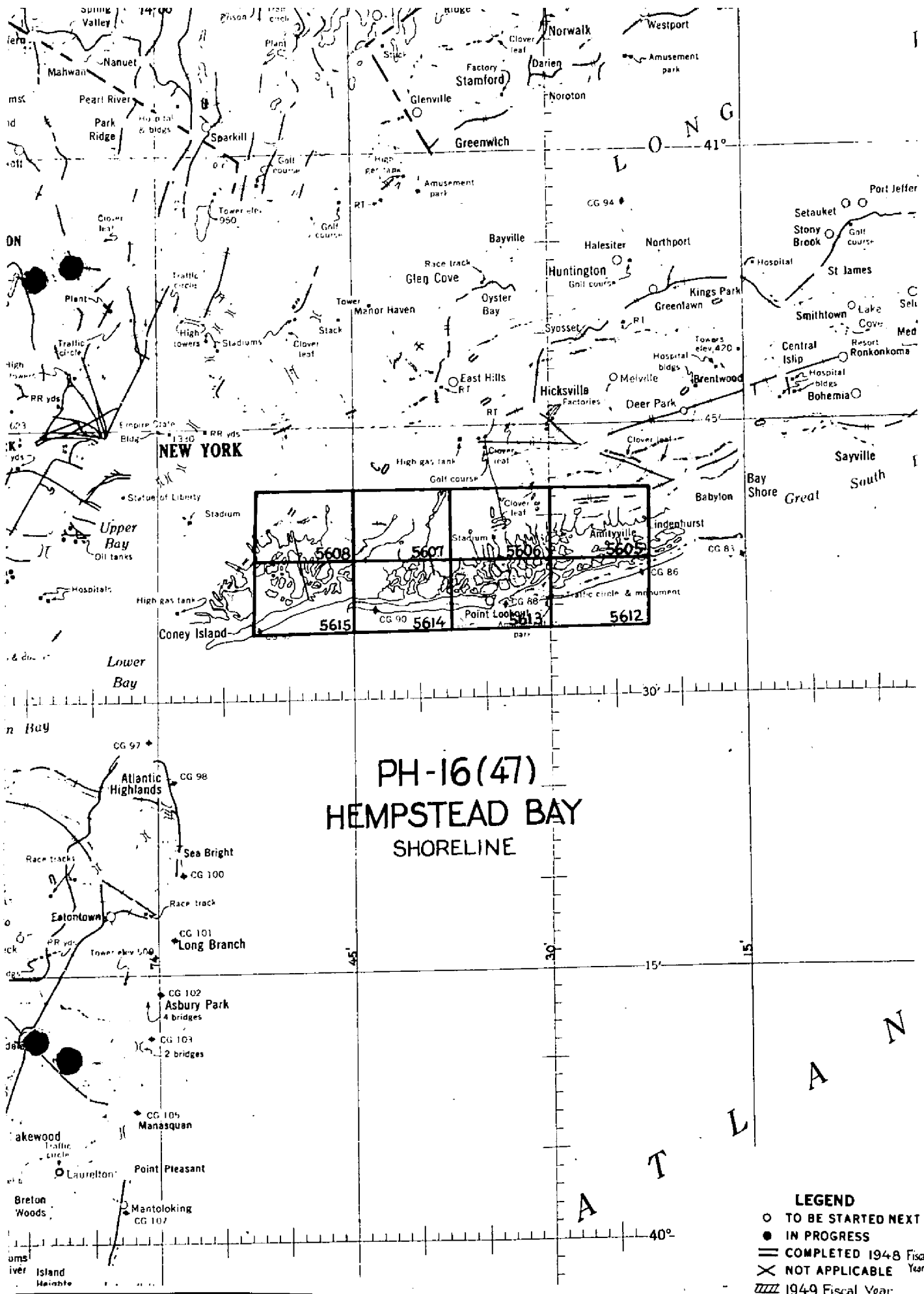
Recovered:

Identified:

Number of Recoverable Photo Stations established (III): *3*

Number of Temporary Photo Hydro Stations established (III): *56*

Remarks:



PH-16(47)
HEMPSTEAD BAY
SHORELINE

- LEGEND**
- TO BE STARTED NEXT
 - IN PROGRESS
 - == COMPLETED 1948 Fiscal Year
 - × NOT APPLICABLE
 - |||| 1949 Fiscal Year

MAP T. 5613

PROJECT NO. PH-16(47)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -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	
PARSON, 1909	N.Y.-L.I. Pg. 53	N.A. 1927	40 37	18.223				FORWARD (BACK)	562.1 (1288.6)	FORWARD (BACK)	
LOOK 2, 1926	NY - LI Pg. 53	"	73 37	05.899				FORWARD (BACK)	138.7 (1271.6)	FORWARD (BACK)	
WOLF, 1934	G-4352 Pg. 81	"	40 35	27.253				FORWARD (BACK)	840.6 (1010.1)	FORWARD (BACK)	
			73 34	54.104				FORWARD (BACK)	1272.3 (138.7)	FORWARD (BACK)	
GUARD, 1934	G-4352 Pg. 81	"	40 35	21.897				FORWARD (BACK)	675.4 (1175.3)	FORWARD (BACK)	
			73 36	18.131				FORWARD (BACK)	426.4 (984.6)	FORWARD (BACK)	
SHORT BEACH COAST GUARD FLAGPOLE, 1940	G-4352 Pg. 81	"	40 35	28.834				FORWARD (BACK)	889.4 (961.3)	FORWARD (BACK)	
			73 34	53.182				FORWARD (BACK)	1250.6 (160.4)	FORWARD (BACK)	
	NY - LI P. 176	"	40 35	24.639				FORWARD (BACK)	760.0 (1090.7)	FORWARD (BACK)	
			73 33	26.469				FORWARD (BACK)	621.5 (788.5)	FORWARD (BACK)	
JON, 1933	NY - LI P. 58	"	40 36	03.141				FORWARD (BACK)	96.9 (1753.8)	FORWARD (BACK)	Destroyed. <i>ENR</i>
			73 32	51.561				FORWARD (BACK)	1212.3 (198.4)	FORWARD (BACK)	
SHORT, 1909	NY-LI P. 58	"	40 35	48.938				FORWARD (BACK)	1509.5 (341.2)	FORWARD (BACK)	Reported lost. <i>ENR</i>
			73 31	26.901				FORWARD (BACK)	632.5 (778.3)	FORWARD (BACK)	
WHITE HOUSE, DARK ROOF CHIMNEY, 1926	NY - LI P. 70	"	40 37	09.259				FORWARD (BACK)	285.6 (1565.1)	FORWARD (BACK)	
			73 31	25.904				FORWARD (BACK)	609.9 (801.5)	FORWARD (BACK)	
JONES BEACH, WEST POINTED TOWER, 1933	G-4084 P. 69	"	40 35	40.259				FORWARD (BACK)	1241.8 (608.9)	FORWARD (BACK)	
			73 30	54.349				FORWARD (BACK)	1278.0 (132.9)	FORWARD (BACK)	
JONES BEACH, WATER TOWER, 1933	G-4443 P. 99	"	40 35	46.816				FORWARD (BACK)	1444.1 (406.6)	FORWARD (BACK)	
			73 30	30.656				FORWARD (BACK)	720.8 (690.0)	FORWARD (BACK)	
GREEN 2, 1940	G-4443 P. 99	"	40 37	19.738				FORWARD (BACK)	608.8 (1241.9)	FORWARD (BACK)	
			73 30	04.289				FORWARD (BACK)	100.8 (1309.5)	FORWARD (BACK)	
PARK, 1933	N.Y.-LI P. 53	"	40 35	53.741				FORWARD (BACK)	1657.7 (193.0)	FORWARD (BACK)	
			73 30	12.764				FORWARD (BACK)	300.1 (1110.7)	FORWARD (BACK)	

1 FT. = 3048006 METER

COMPUTED BY: J.C. Richter

DATE 4/21/48

CHECKED BY: M.F. Kirk

DATE 3 May 1948

M-2388-12

FIELD INSPECTION REPORT
T-6513 5613
(40-33.75 / 73-30.0)
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.

This report is filed in the Div of Photogrammetry General Files.

1. DESCRIPTION OF THE AREA:

This sheet has the largest section of Hempstead Bay within its limits. Jones Inlet, near the center of the sheet, affords entrance to Hempstead Bay from the Atlantic Ocean.

The land area consists of sections of the barrier beach on each side of Jones Inlet and the marsh islands of Hempstead Bay.

The main section of Jones Beach State Park is located just east of Jones Inlet. Point Lookout, a resort town just west of Jones Inlet is the only town.

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:

Four C & G S triangulation stations were recovered and identified for plot control. One three point fix was made to replace a lost triangulation station.

3-pt. fix station not used in plot. See radial plot report for Nos. T-5605, T-5606, T-5612, and T-5613.

7. MEAN HIGH WATER LINE:

The mean high water line along the point on the east side of Jones Inlet is subject to the constant changes natural around features of this kind. The mean high water line in this area was located by a series of three point sextant fixes and plotted on the photographs.

8. LOW WATER LINES:

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:

One fixed aid to navigation was positively identified, Jones Inlet No. 22, 1947 Light List No. 1071. None were identified along Reynolds Channel or State Boat Channel.

Landmarks adequately discussed in Field Inspection Report, Project Ph-16(47).

12. HYDROGRAPHIC CONTROL:

In addition to existing triangulation, one recoverable hydrographic and topographic station established in 1933-34 was recovered and fifty-four photogrammetric hydrographic stations were identified.

A list of the photogrammetric hydrographic stations is attached.

No recoverable topographic stations were established.

15. BRIDGES:

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

18. GEOGRAPHIC NAMES:

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

19. COAST PILOT INFORMATION:

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

Submitted:
19 November 1947

I. Y. Fitzgerald,
Cartographer

COMPILATION REPORT

SHORELINE MANUSCRIPT, SURVEY T-5613

Manuscript, T-5613, is one of eight shoreline surveys in Project No. PH-16 (47) Long Island. This manuscript covers the area along the south shore of Long Island from Zachs Bay to Lido Beach. Compilation instructions for this project dated 2 March 1948 have been complied with.

26. CONTROL

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

27. RADIAL PLOT

Refer to the radial plot report for Surveys T-5605, T-5606, T-5612 & T-5613 submitted to Washington Office 2 September 1948. *Filed in the Div. of Photogrammetry General Files.*

28. DELINEATION

Compilation is in accordance with Photogrammetry Instructions No. 17 dated 15 September 1947.

Limits of the areas of marsh, high ground and interpretation of other inland features were determined after careful stereoscopic examination of the photographs.

Field inspection was adequate for the area covered by recent photographic coverage.

30. MEAN HIGH WATER LINE

Delineation of the MHWL is in accordance with the field inspection.

31. MEAN LOW WATER LINE

Only that portion of MLWL identified by field inspection was delineated, *See par 47, Review Report. EIR*

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

Delineated in accordance with field identification.

33. WHARVES AND SHORELINE

No comment.

34. LANDMARKS AND AIDS TO NAVIGATION

Four landmarks, two of which are triangulation stations, and one nonfloating aid recommended for charting by the field party, have been plotted on the map manuscript. The positions of the landmarks and non-floating aid are reported on form No. 567, submitted with this report. Data for two landmarks, a tower and a cupola on Point Lookout, shown on Chart No. 579 were not furnished the compilation office. There is, however, a triangulation station (LOOK 2, 1926) plotted on the manuscript at the position shown on the chart for the tower. *These two landmarks have been destroyed. See Nautical Chart Letter 787. EVR*

35. HYDROGRAPHIC CONTROL

Fifty six photo hydro stations were located and delineated in accordance with field inspection. A descriptive list of these stations is attached to this report. Two copies of this list are being furnished for use of the hydrographic party.

37. GEOGRAPHIC NAMES *814 ✓*

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

39. JUNCTIONS

Junction was made with Survey T-5606 to the north, with T-5614 to the west, and with T-5612 to the east, and found to be in good agreement.

To the south is the Atlantic Ocean.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

This manuscript was compared with U. S. Army Engineers' quadrangle ^{*Inlet*} Jones Beach, N.Y., scale 1:25,000, published in 1943, by use of the vertical projector.

The quadrangle was found to be in generally fair agreement with the manuscript except for man made changes and considerable change in the shoreline at Jones Inlet due to storms. Some erosion of the marsh islands was also noted.

44.A. COMPARISON WITH EXISTING PLANIMETRIC SURVEYS

Comparison was made with U. S. Coast and Geodetic Surveys Nos. T-5054, T-5061 and T-5062, scale 1:10,000, and found to be in generally good agreement except for minor erosion on some of the marsh islands, man made changes, and the shifting of the coast line in the area of Jones Inlet due to storms.

The west side of the inlet has receded approximately 80 mm, while the east side has filled in and the point has built up approximately 19.5 mm.

45. COMPARISON WITH EXISTING NAUTICAL CHARTS

This manuscript was compared with U. S. Coast and Geodetic Survey Chart No. 579 scale 1:40,000, published May 1941. Minute comparison was not possible because of the great difference in scale between the surveys. They appear, in general, to be in good agreement.

The following topographic information shown on Survey T-5613 is of sufficient importance to warrant immediate application to the chart:

None.

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
21 March 1949

William J. Hughes
Cartographic Draftsman
Compilation and Descriptive
Report

Joseph Steinberg
Photogrammetrist
Photogrammetric Office Review

Approved and forwarded
12 April 1949

Harry R. Rudolph
Supervisor

Thos. B. Smith
Officer in Charge
Baltimore Photogrammetric Office

April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Baltimore, Md. 18 March 1949

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

The positions given have been checked after listing by *Joseph Steinberg*

Thos. E. Reed Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED		
				LATITUDE	LONGITUDE	DATUM	D. P. METERS			HARBOR CHART	INSHORE CHART	OFFSHORE CHART
TOWER	New York.	lighted, brick (202' high)	SHORT BEACH LIGHT	40 35	73 30	N.A. 1927	721	Tri. T-5613	1933	x	x	579 1215
TOWER		flag, Coast Guard type, white (90' high)	GUARD (Massau Co)	40 35	73 30	"	1251	T-5613	1934	x	x	579 1215
TOWER		Old unused Coast Guard Lookout (40' high)	Same as charting	40 35	73 34	"	1034	rad. plot T-5613	1947	x	x	579 1215
TOWER		lookout, Short Beach Coast Guard Station, Brick (75' high)	Same as charting	40 35	73 33	"	595	Rad. Plot T-5613	1947	x	x	579 1215

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.

PHOTOGRAMMETRIC HYDROGRAPHIC STATIONS

T - 5613

No.	Photo.	Description
1301	47-D-80	Flagpole, East Point House
1302	47-D-79	Center of shack
1303	47-D-156	West gable of house
1304	-156	East gable of house
1305	-156	East gable, white house, green roof
1306	-156	Chy. west end white house
1307	-156	South gable red shack
1308	-156	East gable, white shack, red roof
1309	-156	Chy., west end, red roof shack
1310	-156	West gable of shack
1311	47-D-157	Windmill
1312	-157	West gable, gray house
1313	-157	East gable, white house, black roof
1314	-157	Higher south gable, red roof shack
1315	47-D-161	West gable of NW shack
1316	-161	East gable of SE shack
1317	47-D-162	Chy., on north end of shack
1318	-162	Chy., center of house
1319	47-D-164	Chy. center of shack
1320	-164	South gable, white house, dark roof
1321	-164	Flagpole on east gable of house
1322	47-D-39	East tower, east bath house
1323	-39	West tower, east bath house
1324	47-D-38	Flagpole, west end Zach's Bay
1325	-38	Chy. of storehouse
1326	-38	Flagpole, main Jones Beach
1327	-38	East tower of west bath house
1328	47-D-36	Platform
1329	-36	NE bridge tower
1330	-36	SE bridge tower
1331	-36	SW bridge tower
1332	-36	NW bridge tower
1333	-36	Platform
1334	-36	Flagpole
1335	-36	East gable, south house
1336	-36	Peaked roof filling station building
1337	-36	Chy. west end of east Police building
1338	-36	Flagpole, State Park Police
1339	47-D-35	East gable, east white house
1340	-35	South gable, west white house
1341	-35	East gable of house
1342	-35	West gable of house

No.	Photo.	Description
1343	47-D-34	Pin ball on roof of bowling alley
1344	-34	Flagpole, Hempstead Town Park
1345	-34	East gable, gray house
1346	-34	West gable, gray house
1347	-34	West gable of shack
1348	-34	South gable, white house, dark roof
1349	47-D-33	SE gable of white house
1350	-33	Prow of beach wreck
1351	-33	Flagpole, black
1352	-33	Tank, small wooden
1353	-32	South gable (white wall)
1354	-32	Flagpole, black
1355	47-D-36	SE black and yellow radio mast
1356	-36	NW black and yellow radio mast

GEOGRAPHIC NAMES

- Alder Island -
- Atlantic Ocean -
- ~~Baldwin Bay~~ -
- Bay of Fundy -
- Bedell Creek -
- Big Crow Island -
- Broad Creek Channel -
- Bush Creek -

- Cinder Creek -
- Cinder Island -
- Cove Hassock
- Cuba Island -
- ~~Crow Island~~ Lead -
- Deep Creek Meadow -

- East Channel -
- East Channel Islands -
- East Crow Island -
- East Island
- Egg Island -
- ~~East Alder Island~~ -
- False Channel Meadow -

- Goose Creek -
- Green Island -

- Haunts Creek -
- High Meadow -

- Ingraham Hassock -

- Jones Beach Causeway -
- Jones Beach State Park -
- Jones Inlet -
- Jones Island -

- Lido Beach -
- Long Creek -
- Long Meadow Island -
- Loop Parkway -
- Kow Island -

- Meadow Island -
- Meadowbrook State Parkway -
- Middle Crow Island -
- Middle Bay -
- Middle Island (N. of Lido Beach)
- Middle Island (E. of Cuba I.)

- Neds Creek -
- North Channel -
- North Cinder Island -
- North Meadow Island -

- Parsonage Cove -
- Parsonage Island -
- Pettit Marsh -
- Pine Creek -
- Pine Marsh -
- Point Lookout (residential area)
- Point Lookout (point of land)
- Reynolds Channel -

- Scow Creek -
- Sea Dog Creek -
- Sea Dog Island -
- Sloop Channel -
- Smith Meadow -
- Snipe Island -
- Stone Hassock -
- Swift Creek -
- Short Beach C-6 Sta. No 88 -
- West Crow Island -
- West Long Meadow Island -
- West Overlook -

*also Zacks Bay
adjoining sheet*

- Zacks Bay -
- The Narrows -
- State Channel -
- Short Beach -

Names preceded by • are
approved. 6-27-49.

L. Heck

Review Report
Shoreline Map T-5613

1 September 1949

28. Detailing

Numerous errors were present on this manuscript. Some detail points were inaccurate and some were improperly placed or too sparse for accurate delineation. All detailing, which was inaccurate enough to warrant changing, is shown in red plastic ink.

44. Comparison with Existing Maps

A. Planimetric

T-3	1:20,000	1835
T-1538	1:10,000	1880
T-2955	1:10,000	1909
T-3484	1:20,000	1914
T-4273	1:10,000	1926
T-4274	1:10,000	1926
T-5054	1:10,000	1933-34
T-5061	1:10,000	1933-34
T-5062	1:10,000	1933-34
T-6009	1:10,000	Sept. 1933
T-6010	1:20,000	Sept. 1933
T-6198 a&b	1:10,000	July 1934

This map supersedes these surveys for nautical charting purposes.

B. Topographic

Jones Inlet, N.Y. 1:25,000 1943
(C of E)

45. Comparison with Nautical Charts

579 1:40,000 May 1941

47. Adequacy of the Compilation

Field inspection was adequate for shoreline and details immediately adjacent. Detail below the plane of mean high-water is subject to verification or completion by hydrographic surveys. This map meets the National Standards of Map Accuracy and complies with project instructions.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

Approved by:

A. V. Griffith
Chief, Review Section R.H.M.
Division of Photogrammetry

H. R. Edmonson
Chief, Nautical Chart Br.
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

Wm. Acaife
Chief, Div. of Coastal Surveys
10/2

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

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.