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## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY R.S. Patton, Director

State: New York

## DESCRIPTIVE REPORT

Topographic Sheet No. "K" 6029

## LOCALITY

Long Island Sound '

North portion of Hempstead Harbor.

**193** 3

Harold A. Cotton

# DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. "K"

North portion of Hempstead Harbor.

### INSTRUCTIONS:

This survey was accomplished under instructions dated March 23, 1933.

## CONTROL:

This sheet was controlled by three main scheme triangulation stations (Matinicock<sub>3</sub>-Glen Cove Beacon and Pier) and ten intersection stations on both shores of the harbor. The location of Stations "New York" and "Point" were determined by triangulation after the topography had been done (for the coordination of U. S. E. control about head of Hempstead Harbor).

## EXTENT:

The sheet takes in the east shore of Hempstead Harbor from Dosoris Pond to Carpenter Point, and on the west shore from the long pier halfway between Mott and Prospect Points to the gravel pit at about  $40^{\circ}$  -  $50\frac{1}{2}$ '

## JUNCTIONS:

This sheet joins sheet "L" on the east, sheet "I" on the west and sheet "J" on the south.

## METHODS:

Ordinary plane-table methods were used, but the traverses were for the most part well controlled by resections of intersection triangulation stations. On the other hand there were no triangulation stations directly occupied except Station "Cone".

Starting with the table points at the end of sheet "L" in Dosoris Pond and orienting on topo Station "Brown" the remainder of Dosoris Pond was located. This was a short orientation with no check available but was carried out on to the outside coast where triangulation stations "Matinicock3", "Green", and "Sky" on the far side of the harbor became visible. Resections on these points checked as did also the last point on the outside coast on sheet "L" so the position was accepted and the

work continued. This traverse was continued to tri Round. Station "Round" is not in accordance with the description which calls it a round red house on the end of the dock. The house is rectangular and weathered gray, but cuts taken to the center of it indicate that it is the station.

Work on the east shore was then discontinued and a traverse started at tri. "Pier" on the long pier half way between Mott Point and Prospect Point. This traverse was run with orientation on stations on the far side of the harbor to stations "New York" and "Point". These were also later checked by triangulation about as close as they could be plotted. From this point the traverse was carried with orientation on triangulation "Side" with resections on "Glen Cove Light" and "Stack" to a loose end about latitude  $40^{\circ}$   $50^{\circ}_{\Xi}$ ' which was later tied in to the control on sheet "J".

A three point fix was then picked up about three hundred meters south of the inshore end of the Glen Cove Breakwater and run south to the flagpole on Mosquito Neck. At this point there was a discrepancy of about three or four meters with a cut to this pole from the opposite side of the harbor; accordingly another three point fix was taken back on the sand spit at the lower end of Mosquito Neck and another location of the flag pole made. An adjustment was made of this section of the shore line and the flag pole. The last fix was determined from six different stations and is thought to be very good.

From here a traverse was run up Glen Cove Creek and back and on down the shore south of Sea Cliff, to a loose end which was later checked back from sheet "J".

A traverse was started near the Glen Cove Beacon and run north to close within a meter at triangulation station "Cone". An old Coast Survey Station with no name on the disk was recovered on the breakwater off Week Point.

A traverse was run up around the swamp southwest of Dosoris Pond and a cut passed through one of the points determined on sheet "L", and also on one of the last points of the traverse coming down from Matinicock Point.

#### NATURE OF THE SHORELINE:

From the north east border of the sheet down to topo Station "Boat" the entire shoreline is private estates or clubs, each property extending over a considerable area. At the inshore end of the Glen Cove Breakwater is a well kept park and bathing beach, joined on the south by another yacht club, while still another occupies the lower end of Mosquito Neck (north of the sand spit).

The village of Glen Cove. sprawls around behind Mosquito Neck and Glen Cove Creek, while the village of Sea Cliff occupies the hill to the south of Glen Cove Creek and continues to the southern boundry of the sheet.

On the west shore private estates occupy practically the entire

area.

Along most of the west bank and along the east bank south of Glen Cove Creek, and between Glen Cove Creek and the Glen Cove Breakwater are rather abrupt bluffs, while the rest of the shoreline is comparatively low.

All along the shore below Sea Cliff from Station "Land" a boardwalk runs just outside of the high water line.

The shore line from the northwest corner of the sheet to Mott Point is foul area for about two hundred meters off shore. Nothing, however, was found as far out as the rock marked "Picket Rock" on the chart.

There is also some foul area off of Dosoris Island, Week Point and south of Sea Cliff, but the remainder of the shoreline is largely sand or gravel beach.

About half a mile north of the Glen Cove Breakwater is a small boat harbor formed by building rock breakwaters.

## CHANGES:

The bridge over the outfall of Dosoris Pond is now a stone arch bridge with headgates below for control of tidal flow. The high and low water line below this bridge is considerably changed by silting and artificial filling.

The outfall to the southward of Dosoris Island has been closed by a causeway and the area south of the island is a high water marsh.

"Round" is the center of a weathered gray rectangular dock house instead of a red circular one as described.

Triangulation "Pole" has been destroyed.

The marsh to the north of Week Point has been trenched for drainage and the creek closed. The marsh is now dry except after extremely heavy rains or very high winter tides. In a few years it will be completely reclaimed.

In Glen Cove Creek a large dredge is operating. At the time of observation, the sand spit had been cut through and the dredge was proceeding across the swamp and up Glen Cove Creek. It is probable that the spoil will fill the present channel, that shown on this sheet, and it is recommended that a resurvey of this portion be made next year or that the data be obtained from the Army Engineers.

The pond shown on the point about half way between topo Stations "Pile" and "Road" is being encroached upon by a city dump and will eventually be filled, as will also that neck of the marsh extending up to

Glencove Cr as on Chart 1213 OK. H. Dr. 3, 1934 Meeks Pt OK, Dec 12, 1934, HBacon, Dec Eldridge Chart no. 2, USGS. Cryster Bay Great x H 1722 (1856)

topo Station "School". It is expected that the old outlet will soon silt up.

## STATISTICS:

Statute Miles of Highwater
Number of Recoverable Positions Triangulation
Number of Positions occupied82 Number of offshore rocks186
Area12 sq. mi.

Respectfully Submitted of OH inkley Surveyor, Ct 6. Survey

Harold alotton chief granty

## PLANE TABLE POSITIONS FOR SHEET "K"

NAME	LATITUDE	LONGITUDE	DESCRIPTION
Sum	40°- 53.67	730- 38,30	Center of small weathered gray summer house on the top of the bluff in front of a large white wooden house just south of the main outlet to Dosoris Pond.
Guard	40°- 53.60	73°- 38.19	Center of stone guard house at the entrance to J. P. Morgan's estate.
White	40°- 53.61	73°- 38.29	Northwest chimney of large white wooden house on hill just south of main outlet to Dosoris Pond.
Stand	40°- 53.59	73°- 38.45	Large northwest chimney of yellow- ish brown large stone house.
Ror	40°- 52.63	730- 39.20	Yellow chimney on a red roofed house.
Bath	40°- 52.50	73°- 39.33	Seaward gable of small blue gray bath house just above high tide line about 400 meters south of Week Point.
Glass	40°- 52.38	73°- 39.20	Green glassed roof conservatory on estate of Arthur Lowe.
Air	40°- 52.29	73°- 39.45	Airport wind direction indicator on end of breakwater forming the small boat and hydroplane anchorage $\frac{1}{2}$ mile south of Week Point.
B <b>eak</b>	40°- 52.26	73°- 39.44	Navigation beacon at entrance to this same small boat harbor.
Boat	40°- 52.11	73°- 39.30	Seaward gable of two story white wood boat house.
Pole	400- 51.88	730- 39.32	Flagpole over clock on brick bath house in public park at the inshore end of Glen Cove Breakwater.
Navy	40°- 51.78	73°- 39.28	Flagpole at New York Yacht Club.
Club	400- 51.40	73°- 39.11	Flagpole on dock of club house just north of Mosquito Cove and the entrance to Glen Cove Creek.
Old	40°- 51.36	73°- 38.93 ·	Center of cupola on top of old weathered boat house at mouth of Glen Cove Creek.

	NAME	LATITUDE	LONGITUDE	DESCRIPTION				
	Brick	400- 51.68	73°- 38.28	Tall yellow brick stack near head of navigation on Glen Cove Creek.				
	School	400- 63.51	73°- 38.18	White cupola on red brick school in the village of Glen Cove.				
	Pipe	40°- 50.98	73°- 38.68	Standpipe on highest point of hill above Sea Cliff. It is visible from almost all of Hempstead Harbor and well out onto the Sound.				
	Light	40°- 51.15	730- 39.06	Small red light on top of a cast iron standard at outer end of a jetty off of the Seacliff beach.				
ا جي	Square	40°- 50.95	73°- 39.07	Square yellow cupola of house on Seacliff bluff about the point where the shoreline makes a rather sharp turn to the southward.				
	Gone .	40°- 50.90	73°- 39.22	Flagpole on corner of dock at boathouse just south of the bend in the shoreline at Seacliff. This is not the flagpole on the building but the one on the northwest corner of the dock.				
	Dome	.40°- 50.73	73°- 39.19	Green dome on a residence on the Seacliff bluff. There are two domed residences in this neighborhood but this is set in the trees and is about three quarters of a mile north of the other one.				
	Near	400- 50.62	73°- 40.15	Flagpole at inshore end of a dock near a well built bath house.				
	Far	40°- 50.73	730- 40.19	Property survey marker (a cross cut in top of a granite monument) near the high tide line and about twenty feet north of a large boulder on the beach.				
	Bee	400- 50.83	730- 40.25	Flagpole on corner of concrete bulkhead (Northeasterly corner). This bulkhead is painted white and is readily visible all over this part of the harbor. There is an artificial swimming pool on the area protected by this bulkhead.				
	Stuck	40°- 50.86	73°- 40.32	North chimney of a large white stucco house.				
•	Wet	40°- 50.86	73°- 40.28	Flagpole on south gable of a bath house near the high water line.				
	East	400- 50.92	73°- 40.38	East gable of shingle and wood house about fifty meters in from the beach.				
	Bat	40°- 51.53	73°- 40.89	West gable of small green bath house on the beach near the tripod of the New York Fish Commission which is the Coast Survey Station New York.				

NAME	LATITUDE	LONGITUDE	DESCRIPTION
Gab	40°- 51.58	73°- 41.07	East gable of small green bath house on edge of bluff above high tide line about 170 meters from the end of a substantially built stone sea wall.
Chim	40°- 51.57	73°- 41.11	North chimney of house about 70 meters back from high water line.
Pil	40°- 51.61	73°- 41.18	Stone pillar at end of long stone break- water. This breakwater is very sub- stantially built and has about a five foot sidewalk on top of it.
Gug	40°- 50.94	73°- 40.67	Cupcla on red roof house on west hill of Hempstead Harbor. The signal is the center of the tower not the chimney which is to one side of the center of the tower.

#### MEMORANDUM BY CHIRF OF PARTY NO.S

## REGARDING TOPOGRAPHIC SHEET "J" (R") "L"

### LONG ISLAND SOUND 1988

## LOW WATER LINE

· 7.

In common with other topographic sheets executed during the present (H.A. Cotton -1933) season, the location of the low water line on this sheet was a distinct job in itself i.e., the entire low water line was visited during periods of low water and the low water line located with due regard for existing tidal conditions.

## PROMINENT OBJECTS . LANDMARKS

Also in common with the other topographic sheets executed during the present season, there are numerous extensive estates located over the area coming within the limits of this sheet. Some of thelarge buildings on these estates comprise the most prominent objects of the landscape.

As these buildings are not only of outstanding prominence but also have particular promise of permanence, it is believed that the chart should they a reasonable number of them. Accordingly the principal objects of this character (at frequent intervals) have been listed on Form 567 "Landmarks for charts". In each case some particular point of the structure has been located.

## CONNECTION WITH WORK OF U.S. ENGINEERS.

Coast and Geodetic Survey triangulation furnished control for sheets "K? and "L" while triangulation of the U.S. Engineers furnished control for sheets "J" which covers the lower portion of Hempstead Harbor.

The line \( \triangle \) Gien Cove Lt. -\( \triangle \) Eas York is the base for the extension of the U.S. Engineers triangulation into Hempstead Bay. Connection was made on this line between the triangulation of the Coast and Geodetic Survey and the U.S. Engineers. The value determined for both the azimuth and distance of this line was slightly different than that originally used by the U.S. Engineers. The different values for both the azimuth and distance of this line \( \triangle \) Glen Cove Lt. -\( \triangle \) New York are as follows:

U.S.Engineers 257 - 25 - 32.0 8.226342 C.& G. Survey 257 - 261 - 04.1 2.226363 Difference 52.1 000021

The above differences of azimuth and distance for the line. Glen Cove Bt.New York, were properly allowed for when converting the U.S.Engineers triangular co-ordinates of these stations into geographic positions for plotting on topographic sheet "J".

#### RECOVERY - OLD INTERSECTION TRIANGULATION STATIONS

The following former intersection triangulation stations were recovered during the course of the present topography:

Sheet "K" - Cone - Side - Stack- Sky - Green - Brown - Tow (all 1930); Point and New York (1917 - redetermined 1933); Tall Tank, Manhasset 1932.

Sheet "L" - Tank (Oak Neck) - Staff - Yel (all 1980); Dock - White - Will (all 1981).

# lorg

## CHANGES

Along chore line there have been numerous minor changes of filling and excavating, mostly the former. There has also been many changes among the small boat landings; many old ones gone and many new ones built. These scarcely merit individual mention; they are all coroborated by the aerial photography.

## ACCOMPANYING DATES

- (a) Blue prints Nos. 11135587 (Sheet No.2) and 11627595 (sheets Nos. 1 and 2). These prints are of Glen Cove and Hempitead Ray respectively. One them are shown the U.S. Engineers triangulation stations, their scheme being extended from the base of Glen Cove Lt. to New York which base was tied into the C. & G. Survey work during the present season.
- (b) Description and position (rectangular co-ordinates)of twenty five triangulation stations of the U.S.Engineers.
- (c) Computations for the conversion of the above rectangular co-ordinates into geographic positions for plotting on topographic sheet "J". In these computations due allowance was made for the new determination of the base Glen Cove Lt. △ New York. Computations were only made for such stations as were recovered and used for control.

Harold A.Cotton, Chief of Porty.

Card Form 524 accompany this report for the following stations

STAK - RAIN \* HAIL \* GATE - LAND - ROAD - PILE - COR - PAV - KONK - WEEK - RED - MAN - ARMY

## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

K	T 6029
	H 5544 + 5545

Lemaroneck, H.I.	-
Hovember 13	, 193 3

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.

Chief of Party.

DESCRIPTION				POSI	TION	Morth Ar Datum	ne <b>rita</b> n		
		LATITUDE		LONGITUDE		METHOD OF DETER- MINATION		CHARTS AFFECTED	
			D. M. METERS	۰	1	D. P. METERS	Name		
N.W. Chim. White House on hill	40	53	1131	73	38	393	White	P.T.	225 <sup>X</sup> 222,1213
Yellow chim on red roofed house	40	52	1158	73	39	281	Ror.	P.T.	222 <b>; 1</b> 213 223
Green Glass roof con- servatory	40	52	697	73	39	<b>26</b> 6	Glass	Р.Т.	223
Red roof /surmounted by flag pole	40	52	506	73	39	2	Tovi	Trian.	223.1213
Yellow brick stack on Hill above Seacliff	40	51	306	73	38	549	Stack	Trianç	223
Standpipe on hill above Seacliff	40	50	1816	73	38	962	Pipe	Р.Т.	223,1213
White cupola on red brid	k 40	51	942	73	38	225	Schoo!	P.T.	223 <sup>X</sup>
Boathouse-cupola	40	51	654	73	38	1300	0 lá	P.T.	223
Castellated tower	40	51	1473	73	42	97	Sky	Trien.	223,1213
Green Roof tower	40	51	1228	73	41	1257	Green	Trian.	223,1213
Seaward chim on brown . brick house	40	51	1234	73	41	546	Вгоулі	Trian.	223,1213
	40	50	1763	73	40	941	Gug	P.T.	223,1213
White bulkhead and sea- wall 'FLAGSTAFF' at)	40	<b>5</b> 0	1537	73	40	353	Bee	Р.Т.	223 <sup>V</sup>
North chimney of house	40	51	1020	73	41	152	Chim	P.T.	223 X House now
This list only from Top om Topo. sheets see S				K" ame	(H.A. Forn	Cotton-I ) For ch	933) Fo	r landna 2,1213 a	rks other than

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 to be a standpipe, elevated to be a standpipe.

tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) off-shore, (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.

(2) & (3) as for charts 222 -223 (1) as for chart 1213

# 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. "K"

REGISTER NO. 6029 Graphic Control

State New York

General locality Long Island Sound

Locality North portion of Hempstead Harbor.

Scale 1:10,000 Date of survey September-October, 19 33

Vessel Project HT-134

Chief of party Farold A. Cotton

Surveyed by W. O. Hinkley

Inked by A. Black

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated March 23rd, 19 33

Remarks:

REVIEW OF CRAPHIC CONTROL SURVEY T- 6029, SCALE /10,000,

Date of Review 7/29/35 12/18/35.

- l. This survey has been reviewed in connection with Air Photo Compilation Nos. T- ,5092,5333, 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-5092  $\int_{-33}^{33}$ , 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.

There were 9 stations described on Form 524. A small letter (d) was applied in green after each of the following stations.

ROAD, PILE, RED, ARMY, WEEK, KONK, PAV, COR, MAN.

STEP, RAW, HAIL, GATE (NUM)

Latherana T-5333 Ougle Andrews T-5092 Bg Jones

Others to be applied in connection with 7-5091