

6030

Graphic Control

U. S. COAST & GEODETIC SURVEY
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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. "L" 6030
~~Hydrographic~~

LOCALITY

Long Island Sound

Oak Neck Point to Matinicock

Point

1933

CHIEF OF PARTY

Harold A. Cotton, H. & G. Engineer

U. S. GOVERNMENT PRINTING OFFICE: 1923

6030

Graphic Control

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 6030

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. L

REGISTER NO. 6030 *Graphic Control*

State New York

General locality Long Island Sound

Locality Oak Neck Point to Matinicock Point

Scale 1-10 000 Date of survey August, 1933, ~~1932~~

Vessel New York Field Party 11 - Project HT 134

Chief of Party Harold A. Cotton

Surveyed by W. O. Hinkley

Inked by W. O. Hinkley

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated March 23, 1933, ~~1932~~

Remarks:.....

6038

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET NO. "L"
Bayville Dock to Matinicock Point

INSTRUCTIONS:

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

CONTROL:

The sheet was controlled by two main scheme triangulation stations, MATINICOCK and OAK NECK and six intersection triangulation stations.

EXTENT:

The sheet comprises a resurvey of the shoreline of Long Island as shown on chart #222 from the easterly limit of the chart to Matinicock Point.

JUNCTION:

This sheet joins sheet "K" on the westward.

METHODS:

Ordinary plane table methods were used. From a point near station DOCK and in line with OAK NECK POINT, a traverse was run to the easterly limit of the sheet, and also forward to OAK NECK POINT, maintaining a continuous forward orientation upon OAK NECK, and checking for distance at WHITE. From OAK NECK a continuous forward orientation was carried onto station "STAF". From here the survey was carried back into the marsh, orienting on "STAF", "TANK" and "YEL".

From "YEL" until Peacock Point was reached the table was oriented back onto "TANK" or "STAF". At Peacock Point, Matinicock Point became visible and was carried as far as "PARK". The remaining shoreline was run back from Matinicock carrying orientation on "TANK" and back onto "MAT". This closure was about three meters and was distributed over six hundred meters of shoreline. The other closures were as close as could be plotted on the sheet.

Where-ever possible orientation was checked on more than one station.

From Matinicock the traverse was continued for about six hundred meters to the southwestward and from "MORG" was run back onto Dosoris Pond. Both

sides of Dosoris Pond were run to the end of the sheet and markers established to be picked up on sheet "K". The work around Dosoris Pond carried orientation for the most part upon "PARK".

NATURE OF SHORELINE:

Around station "DOCK" which is at the inner end of the old Bayville ferry slip, there is a public bathing beach with bath houses, hot dog stands etc. (This ferry slip is no longer in use).

At the extreme easterly end of the sheet is a cluster of small summer cottages. Westward from "DOCK", these cottages become progressively of better class until at about station "GOLF" they give place to large private estates which continue to about station "CUP", where they give way to another public bathing beach with concessions. From "CLUB" to the outlet of Frost Creek is club property with the exception of short stretches around signals "BATH" and "RICH" where there are short distances owned by estates, the main bulk of which is located inland.

From the mouth of this creek to "PARK" are large private estates, and beyond this to the end of the sheet is the single estate of Mr. J.P. Morgan.

Around OAK NECK POINT steep bluffs come down to the shoreline. Elsewhere the shore is comparatively low for some distance back.

Matinicock Point is surrounded by a twenty foot concrete seawall with a concave profile and coming to a sharp point at the outer end.

CHANGES:

At the extreme east end of chart 222 is shown a small inlet. This has been closed off by sinking an old hulk in the inlet. There is now a bar formed between the small lake that is left and the Sound which is about thirty meters wide, and the pond is gradually silting up.

Between Fox Point and Peacock Point at signal "BATH" a small boat basin has been constructed. The entrance to this basin is protected by steel sheet piling, but is silting up and is not passable at low water.

At the east end of Dosoris Pond Mr. Morgan has cut thru another channel, and installed control works. The main entrance to Dosoris Pond is also controlled, and the tidal range here is reduced to about one foot.

Elsewhere, except for a few new docks as shown on the sheet, the shore line is apparently unchanged.

Residents around the Bayville ferry slip are all of the opinion that the old hulks which were put in there for a breakwater for the ferry landing are to be removed now that the slip is no longer in use, as the hulks appear to be causing a silting up of the area behind them.

Geographic Names. Names on this sheet have been compared with other authorities are found to be correct. Harlow Bacon, Senior Cartographer, Nov 27, 1933.

STATISTICS:

Statute miles of high water.....	7
Statute miles of low water, creeks, sloughs etc.....	11
Statute miles of roads, railroads etc.....	2
Area in square miles.....	5
Number of recoverable positions	
Triangulation.....	8
Topographic.....	14
Number of stations occupied.....	73
Number of off shore rocks.....	78

Respectfully submitted

W. O. Hinkley
 W. O. Hinkley,
 Surveyor, C. & G. Survey

Approved and forwarded

Harold A. Cotton
 Harold A. Cotton,
 Chief of Party, C. & G. Survey.

DESCRIPTION OF TOPOGRAPHIC STATIONS FOR SHEET "L"

✓QUART N. 40° -54.67' W. 73° -32.40' is a chimney on a red roofed summer cottage about one quarter of a mile Easterly from foot of old Bayville Ferry Slip

BOILER N. 40° -54.59' W. 73° -32.60 is the boiler of an old wreck about 150 M. from foot of Bayville ferry slip.

LEAK N. 40° -54.60 W. 73° -32.69 is an old water tank on the seaward end of Bayville Ferry Slip. Not to be confused with triangulation station "Dock" which is a larger water tank at the inshore end of the dock.

LOW N. 40° -54.56' W. 73° -33.18' is a yellow stucco chimney on Easterly side of yellow house, about one third of a mile West of Bayville Ferry Slip

TILE N. 40° -54.52' W. 73° -32.96' is a cupola on a tile roof stucco house about four hundred meters West of Bayville Ferry Slip

POLE N. 40° -54.63' W. 73° -33.35' is a flag pole 20M. North Easterly of a gray concrete block house with tennis courts

IVY N. 40° -54.62' W. 73° -33.40' is the East Chimney on the high portion of a large ivy covered pink stucco house set back about 75 M. back from the shore line

GOLF N. 40° -54.79' W. 73° -33.78' is the Northwest chimney of a large red brick mansion on Easterly side of golf course, directly in line with only dock on this section of beach.

TREE N. 40° -54.90' W. 73° -33.94' is a lone tree halfway up the bluff on the Easterly side of Oak Neck Point. It is very conspicuous from the East side but not visible from the West

STUC N. 40° -54.90' W. 73° -34.18' is yellow chimney on yellow stucco, red roofed house, west of Oak Neck Point.

GRAY N. 40° -54.74' W. 73° -34.39' is center chimney on gray stone house six hundred meters Southwest of Oak Neck Point. This is the second large gray house from Oak Neck.

CUP N. 40° -54.65' W. 73° -34.65' is a yellow cupola on the Easterly side of a yellow wooden house.

These positions approximate only. (North American datum)

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DESCRIPTION OF TOPOGRAPHIC STATIONS FOR SHEET "L"
Continued

SWIM N. 40° -54.55' W. 73° -34.90' is a flag pole behind bath house near Easterly end of long sand beach.

COM N. 40° -54.52' W. 73° -35.18 is center of Easterly confort station on long sand beach

FORT N. 40° -54.50' W. 73° -35.38' is center of Westerly confort station on long sand beach.

CLUB N. 40° -54.50' W. 73° -35.57' is a flag pole on shoreward side of bath house at Westerly end of long sand beach.

BATH N. 40° -54.27 W. 73° -35.91 is center of bath house just to the East of small boat basin.

RICH ^{Δ Bathhouse 1915} N. 40° -54.10 W. 73° -36.36' is flag pole in center of large red roofed white bath house between the creek Club and the mouth of Frost Creek

PIL N. 40° -54.11' W. 73° -36.55' is a stone pillar on the West side of the mouth of Frost Creek about high water line

GIN N. 40° -54.07' W. 73° -36.43' is a gin pole on dock in boat basin up Frost Creek below the first bridge.

CAP N. 40° -54.10 W. 73° -36.73' is Westerly chimney of large brick house on Peacock Point. This chimney has a concrete cap over it.

COVE N. 40° -54.04' W. 73° -36.80' is center of the first bath house in the cove Westerly from Peacock Point

EAST N. 40° -53.95' W. 73° -36.89' is Easterly gable of high portion of large red house in Cove West of Peacock Point

STONE N. 40° -53.95 W. 73° -36.97 is chimney of stone bath house near foot of dock.

HILL N. 40° -53.68' W. 73° -36.97' is West chimney of White house on hill. From the shore line this house is only visible from directly in front. From off shore it is visible over a considerable area.

BEND N. 40° -54.19' W. 73° -36.15' is a flag pole on a bend of the dock of the creek club. It is not circled on the topo sheet as to do so would interfere with the details of the dock at that point

DESCRIPTION OF TOPOGRAPHIC STATIONS FOR SHEET "L"2

630

Name	Latitude	Longitude	Description
PARK	40° 53.88 ⁸	73° 37.24'	Is a twenty foot pole carrying a "No Parking" sign where a public road comes down to the beach at the Easterly boundry of J.P. Morgans estate.
Brown	40° 53.9'	73° 37.38'	Is a brown sentry box on J.P. Morgans estate, near the easterly boundry.
Sign	40° 53.91'	73° 37.47'	Is a private property Keep Off sign on the Morgan estate.
Prop	40° 53.96 ¹	73° 37.64'	Is a private property Keep Off sign on the Morgan estate.
Gun	40° 54.02'	73° 37.77'	Is the remains of an old coast defense anti aircraft gun.
Lean	40° 54.00'	73° 37.71'	Is the center of the easterly of two lean-to bath houses on the Morgan estate.
Shin	40° 54.05'	73° 37.82'	Is the center of a shingled bath house in the edge of the trees near the end of the concrete seawall around Matinicock Pt
Mat	40° 54.17'	73° 38.00'	Is a private property Keep Off sign on the extreme end of Matinicock Point, about 30 meters from Matinicock 3
Jip	40° 53.99'	73° 37.95'	Is the center of a green solarium on top of J.P. Morgans house.
Door	40° 53.89'	73° 37.77'	Is a white door in Morgans chicken coop.
Super	40° 53.83 ⁸	73° 37.83 ⁸	Is a red chimney on the house of the Superintendent of the Morgan estate.
Stake			Is the easternmost of two four by four stakes about two feet from high water on the North Shore of Dodoris Pond 247 meters from the chimney on the house of the superintendent of Morgans estate.

MEMORANDUM BY CHIEF OF PARTY NO.3

6030

REGARDING TOPOGRAPHIC SHEET "J" K" "L"

LONG ISLAND SOUND 1933

LOW WATER LINE

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 the large 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 show 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 "I" and "L" while triangulation of the U.S. Engineers furnished control for sheets "J" which covers the lower portion of Hempstead Harbor.

The line Δ Glen Cove Lt. - Δ New 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 Δ Glen Cove Lt. - Δ New York are as follows:

	Azimuth Back	Log distance
U.S. Engineers	257 - 25' - 32.0"	3.226342
C. & G. Survey	257 - 23' - 04.1"	3.226505
Difference	2' - 27.9"	.000163

The above differences of azimuth and distance for the line Glen Cove Lt. - 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 1930); Tall Tank, Manhasset 1932.

Sheet "L" - Tank (Old Hook) - Staff - Tel (all 1930); Deck - White - Will (all 1931).

CHANGES

Along shore 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 corroborated by the aerial photography.

ACCOMPANYING DATA:

(a) Blue prints Nos. 11185387 (Sheet No.2) and 11627306 (sheets Nos. 1 and 2). These prints are of Glen Cove and Hempstead Bay respectively. One them are shown the U.S. Engineers triangulation stations, their scheme being extended from the base \triangle Glen Cove Lt. to \triangle 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 \triangle Glen Cove Lt. \triangle New York. Computations were only made for such stations as were recovered and used for control.

Harold A. Cotton
Harold A. Cotton,
Chief of Party.

Card Form 524 accompany this report for the following stations

OLD - PINK - FIRE - HYD - DAVE - END - MORG -

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Mamaroneck, N.Y.

November 13th, 1938

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.

Harold A. Cotton
Harold A. Cotton

Chief of Party.

DESCRIPTION	POSITION					North American Datum	METHOD OF DETERMINATION	CHARTS AFFECTED		
	LATITUDE		LONGITUDE		DATUM Name					
	°	'	D. M. METERS	°		'			D. P. METERS	
East chim. High Portion of ivy covered pink stucco hse.	40	54	1138	73	33	571	Ivy	P.T.	222 [✓]	224 [✓]
N.W. Chim. red roof mansion on edge of golf course	40	54	1456	73	33	1077	Golf	P.T.	222 [✓]	224 [✓]
Center chim. large gray stone house	40	54	1354	73	34	539	Gray	P.T.	222 [✓]	224 [✓]
White house on Oak Neck Pt. (N.W. Corner)	40	54	1546.1	73	33	1350.4	Will 1931	Triang.	222 [✓]	224 [✓]
Weathered brown tank with weather vane on top	40	54	1045.6	73	34	836.1	Tank (Oak Pt) 1930	Triang.	222 [✓]	224 [✓]
Flag Pole in center of red roof white house on beach	40	54	175	73	36	500	Rich	P.T.	222 [✓]	
West chim. large red brick house on Peacock Pt.	40	54	183	73	36	1024	Gap	P.T.	222 ^x	1213
West chim. of white house on hill	40	53	1243	73	36	1352	Hill	P.T.	222 [✓]	1213
Green roof penthouse on top of lrg. brick hse. with many chimneys	40	53	1831	73	37	1320	Jip	P.T.	222 [✓]	1213
Elevated water tank at inshore end of Dock	40	54	969.0	73	32	979.3	Dock 1931	Triang.	222 [✓]	1213
This list only from Topographic sheet "L" (H.A. Cotton-1933) For landmarks other than from topographic sheet see Special Report (Same Form) For charts 222, 1213 and 223.										

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 identification. 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) 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.

(1) as for chart 1213

U. S. GOVERNMENT PRINTING OFFICE: 1933

(2) & (3) as for charts 222 - 223

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

L T-6030

LANDMARKS FOR CHARTS

Koronosack, N. Y.

Survey for 1933, 1936

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.

Harold A. Cotton
Harold A. Cotton

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	D	M. METERS	D	M. METERS			
East chin. high portion of ivy covered brick stucco hse.	40 54	1138	73 33	571	Ivy	P.T.	222'
W. chin. red roof transition on edge of golf course	40 54	1456	73 33	1077	Golf	P.T.	222'
Center chin. large gray stone house	40 54	1354	73 34	539	Gray	P.T.	222'
White house on Oak Rock Pt.	40 54	1546.1	73 33	1350.4	Hill	Triang.	222'
Weathered brown tank with weather vane on top	40 54	1045.6	73 34	836.1	Tank (Oak Pt.)	Triang.	222'
Flag pole in center of red roof white house on beach	40 54	175	73 36	500	Rich	P.T.	222'
West chin. large red brick house on Rock Pt.	40 54	103	73 36	1024	Cap	P.T.	1213
West chin. of white house on hill	40 53	1243	73 36	1352	Hill	P.T.	222'
Green roof penthouse on top of lrg. brick hse. with many chimneys	40 53	1831	73 37	1320	Jip	P.T.	1213
Elevated water tank at shore end of Dock	40 54	969.0	73 32	979.3	Dock	Triang.	222'

This list only from topographic sheet "L" (H.A. Cotton-1933) For landmarks other than from topographic sheet see Special Report (Same Form) For charts 222, 1213 and 223.

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 identification. 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.

(1) as for chart 1213

U. S. GOVERNMENT PRINTING OFFICE: 1933

(2) & (3) as for charts 222 - 223

DESCRIPTION OF PHOTOGRAPHIC STATIONS FOR SHEET "L"2

5.7

Name	Latitude	Longitude	Description
PARK	40° 53.88 ^s	73° 37.24'	Is a twenty foot pole carrying a "No Parking" sign where a public road comes down to the beach at the easterly boundary of J.P. Morgans estate.
Brown	40° 53.9'	73° 37.38'	Is a brown sentry box on J.P. Morgans estate, near the easterly boundary.
Sign	40° 53.91'	73° 37.47'	Is a private property Keep Off sign on the Morgan estate.
Prop	40° 53.86'	73° 37.64'	Is a private property Keep Off sign on the Morgan estate.
Gun	40° 54.02'	73° 37.77'	Is the remains of an old coast defense anti aircraft gun.
Lean	40° 54.00'	73° 37.71'	Is the center of the easterly of two lean-to bath houses on the Morgan estate.
Shin	40° 54.05'	73° 37.82'	Is the center of a shingled bath house in the edge of the trees near the end of the concrete seawall around the Linnick Point.
Lat	40° 54.17'	73° 38.00'	Is a private property Keep Off sign on the extreme end of the Linnick Point, also about 30 meters from Linnick Point.
Jip	40° 53.99'	73° 37.95'	Is the center of a green solarium on top of J.P. Morgans house.
Door	40° 53.89'	73° 37.77'	Is a white door in Morgans chicken coop.
Super	40° 53.88 ^s	73° 37.83 ^s	Is a red chimney on the house of the Superintendent of the Morgan estate.
Stake			Is the easternmost of two four by four stakes about two feet from high water on the North Shore of Dodoris Pond 247 meters from the chimney on the house of the superintendent of Morgans estate.

REVIEW OF GRAPHIC CONTROL SURVEY T- 6030 , SCALE 1/10,000 ,

Date of Review 7/29/35

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T- , 5092, , 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, , 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 7 stations described on Form 524. A small letter (d) was applied after each of the following stations in green.

PINK, FIRE, HYD, DAVE, MORG, END, OLD.

See Descriptive Report of T-5092 page 4 under Errors for the new positions of O Cap and O Rich (Δ Boathouse, 1915.) This note was applied in green.

*Joseph Andrews III
B.G. Jones*