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Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey	Shoreline(Photogrammetric)
	Office No. T-12393
	LOCALITY
State Ne	w York
	Long Island Sound
	Sunken Meadow
	<u> 19 65</u> - 1967
Allen L. Po	CHIEF OF PARTY
	lantic Marine Center
LIB	RARY & ARCHIVES
DATE	

USCOMM-DC 5087



FORM C&G\$-181a (3-66)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

	- 12393			
PROJECT NO. (II):				
P H-6603				
FIELD OFFICE (II);		CHIEF OF PARTY	· · · · ·	
Riverhead, Long Island, New York		Joseph K.	Wilson	
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAP	RGE	
Atlantic Marine Center		J.Bull,RAD	M.Directo	ידו
INSTRUCTIONS DATED (II) (III):		012423,142	11,521.000	/+
FIELD January 24, 1966 FIELD March 1966/6314 OFFICE May 27, 1966 OFFICE September 15, 1966	Ae	applement I erotriangulat ompilation	c io n	
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APPLIED TO CHART NO.	DATE:	<u></u>	DATE REGIS	TERED (IV):
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REPERENCE STATION (III).				·
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244, 388.01 ×= 2,204, 264.	84	New York	·	Long Island
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTER OR (IV) WASHINGTON OFFICE.	•	IELD PARTY, (III)	PHOTOGRAMMI	ETRIC OFFICE,
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE T	HE SURNAME	AND INITIALS, NOT		Y.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete pending field edit	May 1967	Superseded
Field edit applied Compilation complete	February 1968	
Final Review	Sept. 1969	

FORM C&GS-181c (9-66)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

MERA (KIND OR SOURCE) (III):

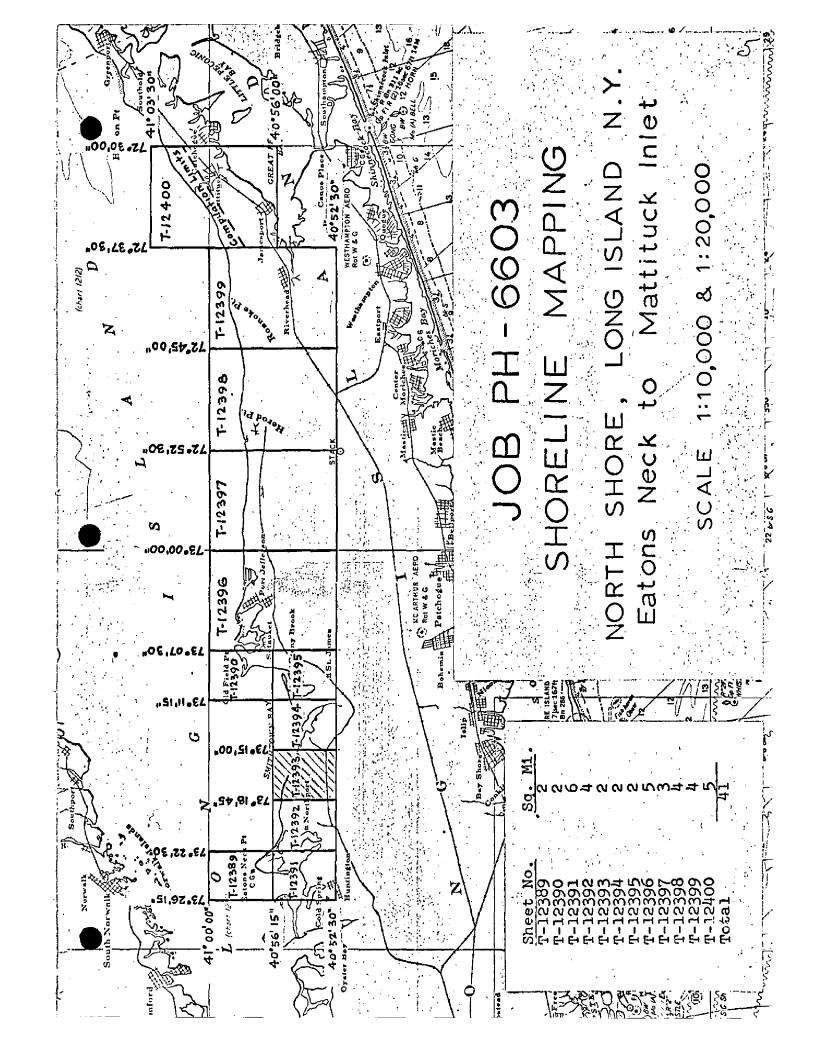
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PROOF EDIT BY (IV):		,		DATE:		
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NUMBER OF BM(S) SEARCHED FOR	₹ (II) :	0	RECOVERED:	IDENTIFIE	D	
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USCOMM-DC 36393C-P66

T-12393

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete pending field edit	<u>Мау</u> 1967	Superseded
Field edit applied Compilation complete	February 1968	
Final Review	Sept. 1969	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12393

Shoreline survey T-12393 is one of seven 1:10,000 scale surveys in job PH-6603. The job is comprised of seven 1:10,000 and five 1:20,000 scale surveys along the north shore of Long Island from Eatons Neck to Mattituck Inlet. See page 5 of this report for the area of the survey within the project.

Field work preceding compilation consisted of identification of horizontal control, shoreline and field inspection, location of landmarks for charts and Geographic Names Investigation.

Compilation was at 1:10,000 scale by B÷8 Plotter and graphic methods using the photography of October 1965. A copy of the map manuscript (classified Incomplete) along with specially prepared photographs was subsequently provided for transfer of the shoreline to the boat sheet, location of photo-hydro signals and for field edit use.

The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude. Field edit was accomplished in October 1967. After application of field edit the survey was scribed, stuck-up and reproduced on cronaflex. Final Review was done in the Atlantic Marine Center during September 1969. One cronaflex positive and a negative of the final manuscript are forwarded for record and registry.

FIELD INSPECTION REPORT Project PH₂6603 Maps T-12389 thru T-12395

This report is submitted for seven maps since there is no great differences in terrain, natural or cultured features which would require special treatment.

2. AREAL FIELD INSPECTION

This area lies along the north shore of Long Island between Lloyd Neck and Old Field Point.

Field Inspection was completed on all seven maps generally to the limits of photography, during May and June 1966.

One area at the east end of Asharoken Beach is under construction by Long Island Light Company and will be changed considerably.

The terrain along this area covered by these maps consists of sand beaches, bluffs and wooded hills with very little marsh and no swamps. Most of the shoreline is accessible by truck.

Photographs of this area is of average quality being taken in October 1965.

Photographs used for field inspection are listed below by maps:

3. HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with project instructions.

No new control was established.

Morizontal control stations reported "lost", "destroyed" or "not recovered" are listed below by maps:

T-12393

Long Island State Park Commission SM-95, 1939 VIEW, 1939

r_12392

Asharoken Beach, Wooden Water Tand, 1939 Chesebro's S W Chimney, 1916 Chesebro's Boat House, 1916

4. VERTICAL CONTROL

All tidal bench marks in the area of the seven maps were searched for and reported on form 685A.

The beach marks were identified on the photograph in accordance with the topographic manual.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is composed mostly of a few tidal streams and normal drainage is by direct run-off into these streams and low lands.

6. WOODLAND COVER

Woodland cover was classified in accordance with the topographic manual.

7. SHORELINE AND ALONG SHORE FEATURES

The high-water line has been indicated on the photographs by symbol in accordance with instructions. No attempt was made to delineate the low-water line.

The field inspection of the high-water line was accomplished by several methods, measurements from photo points and by visual inspection by truck and by walking the shoreline.

In a few areas the high-water line adjacent to inlets is subject to change due to storms.

Special attention is invited to grass in water just below the high water line. A large percentage of this grass is a narrow strip or small patches and has the appearance of mud on the photograph.

Inspection of bluffs were made and their location indicated on the photographs.

All other shoreline features are covered by field inspection notes on the photographs.

There has been no great changes in this area.

8. OFFSHORE FEATURES

Offshore features were checked by boat.

Rock areas were inspected at low water and a few of the outer rocks were located by sextant fixes or noted on the photographs.

The general area of these rocks was outlined to aid compilation of rocks on color photography to be taken at lcw water in the fall of 1966.

All areas of wrecks were inspected at low water and appropriate notes made on the photographs.

A wreck on the west side of Huntington Bay was located by photo points. This wreck is marked by a lighted bouy which is about 300 feet to the east.

One wreck in Northport Harbor (Chart 224) was verified at high water. There is no photography covering this area.

9. LANDWARKS AND AIDS

Nonfloating aids to navigation were verified as to existance and number. They were located by direct photo identification or other field methods.

Landmarks for charts were identified, classified and heights obtained.

Form 567 has been submitted for both features.

The nautical landmarks north and east of Huntington were verified and are shown on a letter-size chart. This area has no photo coverage.

10. BOUNDARIES, MONUMENTS AND LINES

In accordance with project instructions.

11. OTHER CONTROL

None established.

12. OTHER INTERIOR FEATURES

Classified according to current instructions.

13. GEOGRAPHIC NAMES

A complete investigation of geographic names will be submitted to Rockville at a latter date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Horizontal Control Indentification Data to Rockville, Transmittal letter dated 5/12/66, reference #33.

Nonfloating Aids or Landmarks for Charts, Transmittal letter dated 6/23/66, reference #41.

Field Inspection Data, Transmittal letter dated 6/23/66, reference #40.

Approved and forwarded:

Joseph K. Wilson Chief, Photo Party 759 Submitted:

June 27, 1966

Erwest W. Hartford

Surveying Technician

PHOTOGRAMMETRIC PLOT REPORT Job PH-6603 North Shore Long Island, New York

August 30, 1966

21. Area Covered

The area covered in this report extends from Eatons Neck to Mattituck Inlet, along the North Shore of Long Island, New York. Included in this area are T-sheets 12390 thru 12400.

22. Method

Five strips of photography (A thru E) were bridged on the stereo-planigraph and adjusted by IBM 1620 methods. Strip "A" was adjusted on six control stations, with three control stations as checks. Strip "B" was adjusted on five control stations. Strip "C" was adjusted on four stations with two stations as checks. Strip "D" was adjusted on seven stations with three stations as checks. Strip "E" was adjusted on two stations with three stations as checks. All points were drilled by PUG methods. The points between strips were averaged.

23. Adequacy of Control

Horizontal control was adequate and complied with project instructions. All control held within National Map Accuracy Standards with the following exceptions:

(1) OLD FIELD PT. LT. (new) 1939, held in Strip "C" but could not be seen clearly in Strip "D" and as a result could not be held in Strip "D".

(2) INDIANA 1933, SS "A" and SS "B" could not be held in either Strips "D" or "E" due to poor images and deep shadows which resulted in the inability of the stereoplanigraph operator to identify the the substations with any degree of accuracy.

24. Supplemental Data

Local USGS quads were used for vertical control during bridging adjustment. Vertical elevations obtained by the bridge should not be used to obtain exact vertical datum.

25. Photography

Photography was adequate as to coverage and overlap. Definition and quality of diapositives were not up to usual standards in that they were very dark. However, all photography was usable.

Submitted by:

Paul Mewkins by Jeff

Approved_by:

John D. Perrow, Jr.

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

CONTROL RECORD

COAST AND GEODETIC SURVEY

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111	FORT SALONGA	=	=	100 541 56.539"	1744.1	(106.7)			
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WATER " " 100 531 01 Ji24" 1,349 (1806.9) 115 " 730 151 30.583" 716.0 (688.8)	HOSPITAL TANK, 1939		=	730 181 14.795"	1048.6	(356.0)			
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COMPILATION REPORT T-12393

31. DELINEATION:

The B-8 plotter was used. Field inspection was adequate, photography satisfactory.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours - inapplicable.

Drainage - no statement.

35. SHORELINE AND ALONGSHORE DATA:

The shoreline inspection was adequate. Low water lines were delineated from office interpretation of the photos.

36. OFFSHORE DETAILS:

There are numerous offshore rocks, some identified by the field inspector, some by the compiler. Charts and the USGS quadrangle showed still others which necessitate field work to be located or proved non-existent.

37. LANDMARKS AND AIDS:

Appropriate copies of Form 567 for Landmarks were forwarded to the Washington Office under date June 1967. There are no Aids to Navigation on this manuscript.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS

Junction has been made with T-12392 to the west, and T-12394 to the east. Long Island Sound occupies the north junction and there is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle NORTHPORT, N. Y. scale 1:24,000, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 117-SC, scale 1:40,000, 6th edition, dated November 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

Rocks, awash and bare.

Submitted by:

B. Wilson

B. Wilson Cartographic Technician

Approved and forwarded by:

aller L. Pousel

Allen L. Powell

RADM, USESSA

Director, Atlantic Marine Center

GEOGRAPHIC NAMES

FINAL NAME SHEET

(Long Island, N. Y.)

PH-6602

PH-6603

T-12393

Callahans Road

Fresh Pond

Long Island Sound

Makamah Road

Sunken Meadow Creek

Sunken Meadow State Park

Approved by:

A. J. Wraight Chief Geographer

Prepared by

Frank W. Pickett Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER:

None other than appear on the Field Edit Ozalid.

FORM C&GS-1002			U	S. DEPARTMENT OF COMMERCE	
(9-66)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY	
	1110		12393		
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
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CONTROL STATIONS					
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	TIONS OF CCURACY	6. RECOVER AS OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY Is stations)	7. PHOTO HYDRO STATIONS	
CHB			CHB	X	
8, BENCH MARKS	9. PLOTTING OF FIXES	F SEXTANT	10, PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS	
Х	F	ŒS	Bridge - W.O.	Wild B-8	
ALONGSHORE AREAS (Nautical	Chart Date)	· · · · · · · · · · · · · · · · · · ·	•		
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
CHB	C	HB	CHB	X	
16. AIDS TO NAVIGATION	17. LANDMARK	Ś	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
x	l c	HB	СНВ	СНВ	
PHYSICAL FEATURES	<u> </u>		•		
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS	
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23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES	
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CULTURAL FEATURES	78 BUILDINGS		I an and a second		
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES	
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33. GEOGRAPHIC NAMES	34. JUNCTIONS		5	35. LEGIBILITY OF THE MANUSCRIPT	
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36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
X 40. REVIEWER	C	HB	CHB	CHB	
	120 - 1		ISUPERVISOR, REVIEW SECTIO		
Charles H.	BIShop		ACRALLOUT	c. Rauch. Jr.	
41. REMARKS (See attached shee					
42. Additions and corrections	furnished by th	e field complet	ion survey have been applied t	o the manuscript. The manu-	
Script is now complete exc	ept as noted und	der item 43.			
7.6. Margio	ta		allow	C. Rauch. J.	
43. REMARKS	<u> </u>		. A. O. Ballik,		
Field edit appl print and DEF				d/or Hydro cronaflex	
				The state of the s	

PROJECT OPR 474 LONG ISLAND SCUND

PHOTO-HYDRO SUPPORT TO USC&GS SHIP WHITING

REPORT OF

PHOTOGRAMMETRIC SUB UNIT PARTY 62

A. PURPOSE AND SCOPE OF SUPPORT:

Photogrammetric support for Hydrography operations by the SHIP WHITING was performed by a sub-unit of Photogrammetric party 62 under instruction for Project OPR 474 dated 18 May 1967. The ship was supplied with all necessary Control, Signal building, and Field edit.

B. CONTROL

Hydrographic control consisted of triangulation, and photohydro stations. The photo-hydro station were located in accordance with Fhoto gammetry Instructions No. 45. Natural objects were utilized as hydro signals whenever possible. This saved a great deal of time, as it eliminated the trouble and time spent obtaining premission to erect a banner or tripod type signal on private property.

C. PHOTOGRAPHY

The photographs for the project consisted of 1965 L 1:10,000 scale ratio photographs for the area between Eatons Neck and Old Field Point. The area to the East of Old Field Point is covered by 1966 1:20,000 ratio photographs. These photographs were of good quality and only usual amount of dificulty was encountered in idintifying signal sites.

D. DISPOSITION OF DATA:

Cronaflex copy of sheets T 12389 through 12396 were turned over to the Commanding Officer of the Ship Whiting. All photographs and unused Cromaflex copies of manuscripts and Field Edit Data were returned to the Atlantic Marine Center.

E. SPECIAL REPORT:

A field Edit report will be submitted for the entire project at a later date.

Respectfully submitted:

Robert S. Tibbetts

RST/ckj

Approved and Forwarded:

Sidney C. Miller, LCDR, USESSA Commanding USC&GS Ship WHITING

FIELD EDIT REPORT

PROJECT PH 6603

LONG ISLAND, NEW YORK

51. This report is submitted for sheets T-12389 thru T-12396. The edit was accomplished by visually inspecting the shoreline from a small boat and via road by truck.

All questions were answered as completely as possible on the discrepancey czalids. In several cases the field editor was asked to locate and or verify depths and numerous rocks.

The Ship Whiting had already completed Hydrography, before field Edit of sheets T-12389 thru T-12396 was started. They obtained depths and positions on all rocks during the course of hydrography. The field editor obtained a copy of this data and it was bansmitted with the field edit data.

No compairson was made with the Whitings Boat Sheets where their was a overlap of work, because the Whiting left the area before edit was completed.

52. Adequacy of Compilation.

These maps are adequate for the transfer of shoreline and location of signals on hydrographic survey sheets.

54. Recommendations.

None.

Respectfully submitted:

Robert S. Tibbetts



REVIEW REPORT T-12393 SHORELINE September 12, 1969

61. GENERAL STATEMENT

See Summary which is page 6 of the descriptive report.

As stated in the Summary the copy of the manuscript provided for transfer of the shoreline to the boat sheet, location of photo-hydro signals and field edit use was classified as Incomplete. After field edit some of the rocks appearing on the incomplete manuscript were removed. These rocks were also transferred to the boat sheet along with the shoreline prior to hydrography. It was noted that they were not inked on the boat sheet but remain in pencil thereon.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of 1:10,000 scale registered survey No. 1723, made in 1886. The passage of time has caused that survey to become obsolete. It is superseded by T-12393 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS NORTHPORT, N. Y. 7 1/2 minute quadrangle, 1:24,000 scale edition of 1954. The shoreline of the two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with boat sheet WH-10-2A-67 (H-8950). The shoreline of the two surveys are in agreement, the shoreline of the boat sheet having been obtained from T-12393. All rocks located by the hydrographer that are not visible on the photographs have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 117SC, 8th edition, corrected thru NM43, October 26, 1968. The shoreline of the chart and this survey is in fairly good agreement. The differences that do exist hape been indicated on the comparison print in red.

Not all of the rocks shown on the chart were visible on the photographs. Those not visible were also indicated on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Les F. Beugnet
Leo F. Beugnet

Approved by:

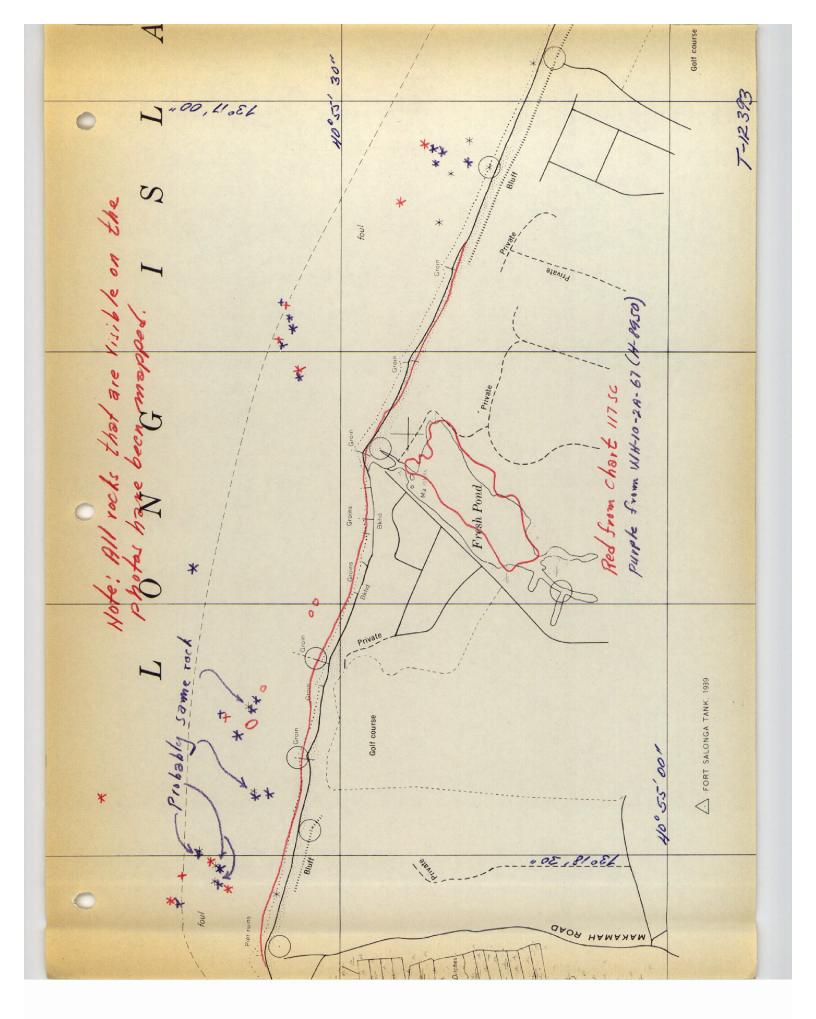
Allen L. Powell, RADM, USESSA

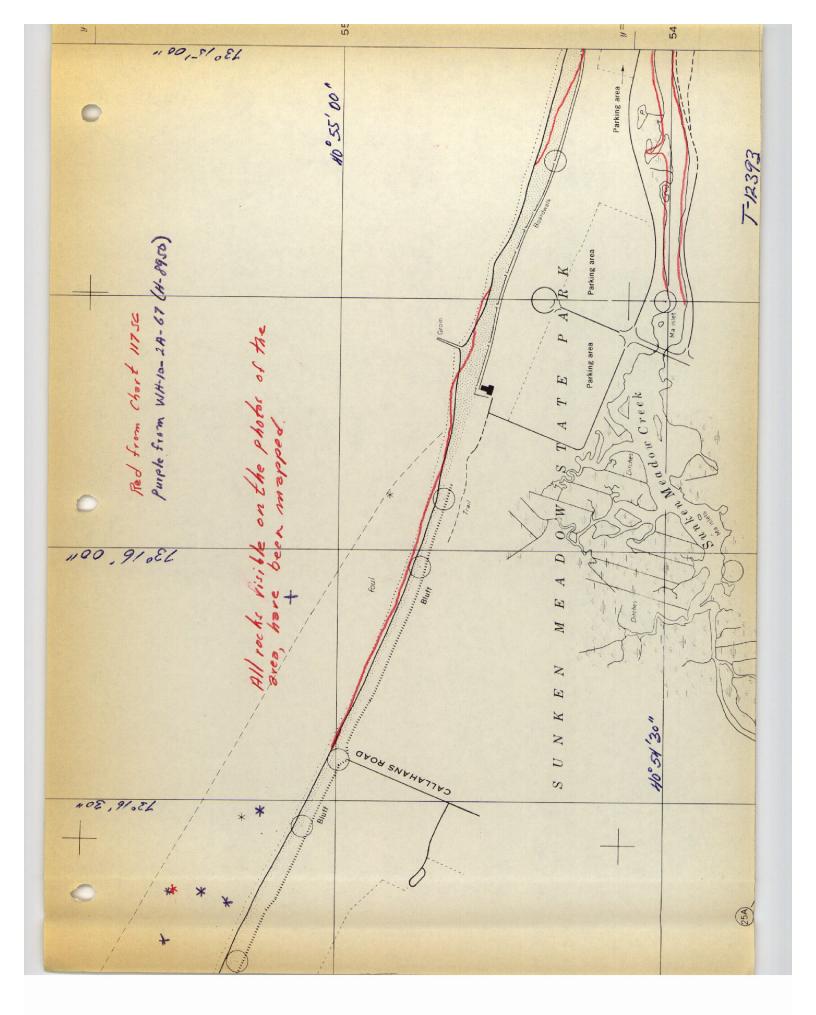
Director, AMC

Approved by:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division





U.S. DEPARTMENT OF COMMERCE COAST AND G ETIC SURVEY

Form 567 (4-61)

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Atlantic Marine Center

April 28 , 1967

I recommend that the following objects which have (Innaxanat) been inspected from seaward to determine their value as landmarks be charted on (deligible) the charts indicated.

2,5 The positions given have been checked after listing by

Chief of Party. J. Bull, RADM, USESSA theer Director, AMC Laser B. Wilson

			The same of the sa		POSITION					TR	And the control of th
STATE	NEW YORK		LAJ LAJ	LATITUDES	LONK	LONGITUDE*		LOCATION	DATE	E CN	CHARTS
CHARTING	DESCRIPTION	BIGNAL	0	D.M. METERS	1 0	0.P. MEYERS	DATUM	SURVEY No.	207	NAREO	AFFECTED
	LOWG ISLAND										
(Elev)	KINGS PARK WATER TANK 1939 Ht. 158 (328) ft. Steel, 6	623	1,0 53	01.424	73 15	30.583	N.A. 1927	Trian. T-12393	VerifiedX 5/2/66	X	117-SC 1213
TANK (Elev)	NORTHPORT VETERANS HOSPITAL TANK, 1939 Ht.= 152 (317) ft Steel, '4 legs:		40 53	35.096	73 18	101, 795	N.A.	Trian.	VerifiedX	X	117-SG 1213
TANK (Elev)	Steel Ht.= 136 (380) ft. *		40 53	183	73 17	51.13	N.A. 1927	Photo.	29/2/01	X	117-50
* Thi	* This elev. from field inspection on photo. Field form 567 gave 136 (356) ft.										4

USCOMM-DC 25412-P61 This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

U.S. DEPARTMENT OF COMMERCE TIC SURVEY COAST AND G

Form 567 (4-61)

MICHARISON TRANSPORTATION CHARTS

STRIKE OUT TWO

... 19_67 Chitef of Parix I recommend that the following objects which have therexxisted been inspected from seaward to determine their value as landmarks be I, RADM, USESSA Director B. W. Den B. Wilson The positions given have been checked after listing by charted on (dehtesternik the charts indicated. XCCEXONWEDED YEAR SPICED TO BE DELETED

June 5

Atlantic Marine Center

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STATE				•	POSITION						TRAH	
	NEW YORK		ואו	LATITUDES	LONG	LONGITUDE#			DATE		CHARTS	5
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USCOMM-DC 28412-961 This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

FORM	C&	GS-	83	52
(3-25-6	3)			

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

- In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
117-sc	5-25-73	W. Chandler	Full Port Before After Verification Review Inspection Signed Via
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