

TP-00863

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TP-00863

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey ... Shoreline

Job No. CM 7403 Map No. TP-00863

Classification No. 111 Edition No.

LOCALITY

State ... New York - New Jersey

General Locality Hudson River

Locality Haverstraw Bay

19 75 TO 19

REGISTRY IN ARCHIVES

DATE

TP-00863
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) C f = 88.47 mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE ZONE 5th MERIDIAN 75th	
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				☒ STANDARD ☐ DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75 C(C) 5831-2	5/8/77	9:28	1:60,000	2.3 ft. above MLW	
75 C(C) 5836-9	5/8/77	9:46	1:60,000	2.3 ft. above MLW	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

Since there was no tide-coordinated infrared photography, the mean high water line was compiled from a combination of empirical observations and contouring on the Wild B-8 plotter.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

There was no requirement for a mean low water line because it was impossible to determine on the color photography. In lieu of the low water line, shallow areas were outlined.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00862	No survey	TP-00864	No survey

REMARKS

TP-00863

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
	R. D. Wells	4/18/75
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
	None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	
	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
2 pre-marks2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Larkin, 1932 King, 1932		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

2 Form C&GS - 152

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

TP-00863
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and inshore delineation	Feb. 1977	Class III Manuscript		
Compilation review	Feb. 1977	Corrections made		
Final review prior to registration	April 1977	Field edit postponed Class III Manuscript	10-3-77	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
5		9-26-77	

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

SUMMARY CM-7403

This summary covers the 1:20,000 scale portion of this project. TP-00860 through TP-00863.

TP-00863 is one of 12 shoreline maps in Job CM-7403 compiled for use in the maintenance of published nautical charts and in new chart construction.

Field work prior to compilation consisted of the recovery and premarking of horizontal control.

This manuscript was compiled using the Wild B-8 stereo-plotter with 1:60,000 scale color photography. One annotated ozalid copy of this map and black-and-white ratioed positives of the photographs covering this area have been prepared for use by the field editor assigned. The original field edit assignment was postponed in November 1976.

Final review was done in the Rockville, Maryland, office April through July 1977.

A stable base positive copy of the map and a descriptive report will be registered in the NOS Archives.

JOB CM-7403
EAST RIVER & HUDSON RIVER
TO POUGHKEEPSIE
NEW YORK & NEW JERSEY
CHART TOPOGRAPHY
SCALE 1:20,000
& 1:10,000

Official Mileage for Cost Accounts

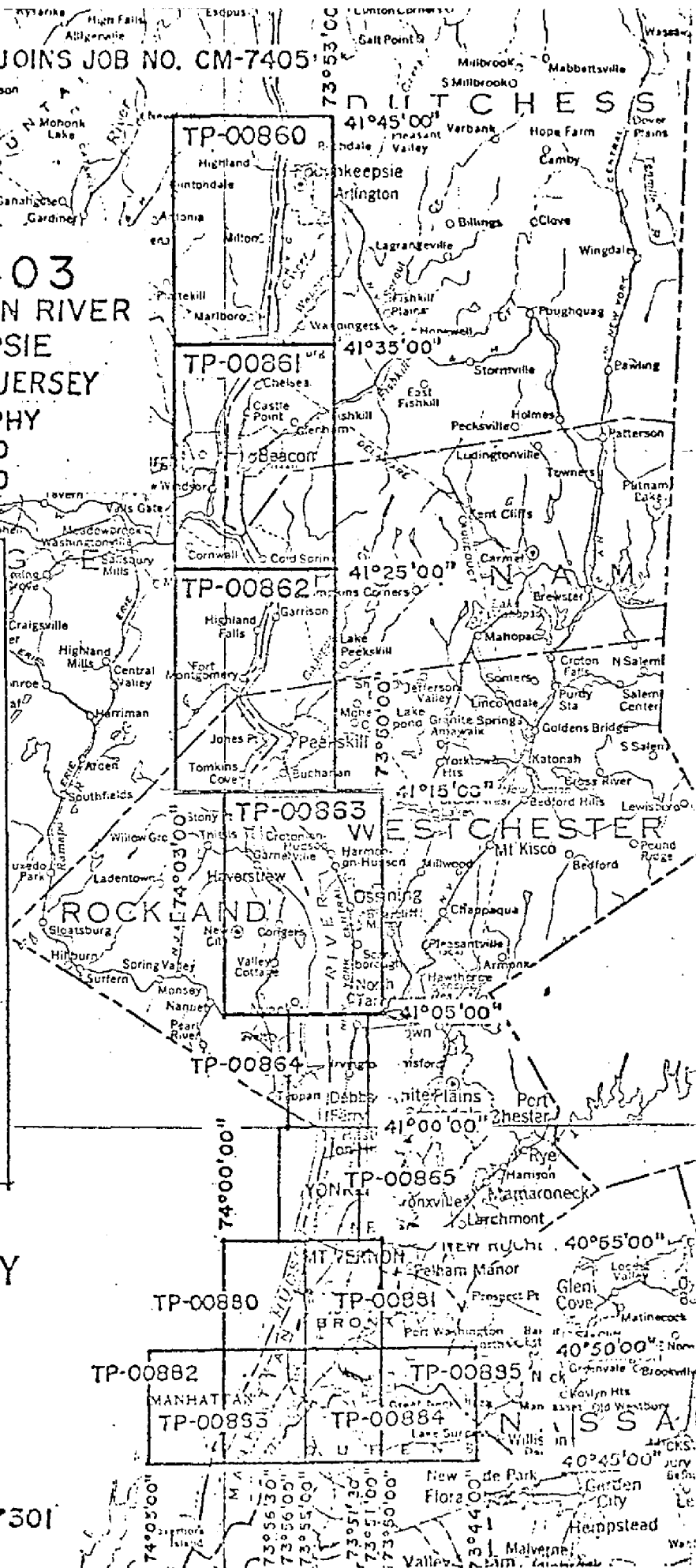
Sheet No.	Sq. Miles
TP-00860	10
TP-00861	11
TP-00862	12
TP-00863	12
TP-00864	5
TP-00865	5
TP-00880	7
TP-00881	2
TP-00882	4
TP-00883	11
TP-00884	7
TP-00885	7
TOTAL	93

J E R S E Y

REVISED 8-12-74 RHM
 2-15-75 DMB.

JOINS JOB NO. CM-7301

JOINS JOB NO. CM-7405



Photogrammetric Plot Report
East River and Hudson River
to Poughkeepsie
New York
CM-7403
October 20, 1975

21. Area Covered: This report pertains to 8 sheets at 1:10,000 scale along the East River and Hudson River in the vicinity of Manhattan Island and also 4 sheets at 1:20,000 scale along the Hudson River to Poughkeepsie, New York. The sheets are TP-00880 thru TP-00885 and TP-00860 thru TP-00865.
22. Method: Three strips of 1:60,000 scale color photography were bridged by analytic aerotriangulation methods and adjusted to ground in the New York East Zone state plane coordinate system. In the area covered by 1:10,000 scale sheets, points were established for setting 1:20,000 scale color photography for compilation. Points were also established for determining ratios of all the 1:20,000 scale photography. T-sheets and ratios were ordered for compilation.
23. Adequacy of Control: The control was adequate.
24. Supplemental Data: U.S.G.S. Topographic quadrangles were used to determine elevations of points for strip adjustment.
25. Photography: The photography was adequate.

Submitted by,

Don O. Norman

Don O. Norman

Approved by:

John D. Perrow Jr.

John D. Perrow, Jr.
Chief, Aerotriangulation Section

Fit to Control

Strip 1

- 1 PAYNE 2, 1932 (-0.4, -0.4)
- 2 SCHOOL, 1932 (+1.3, +1.0)
- 3 INTER, 1932 (-1.1, -1.0)
- 4 HILLSIDE, 1933 (+0.2, +0.4)

Strip 2

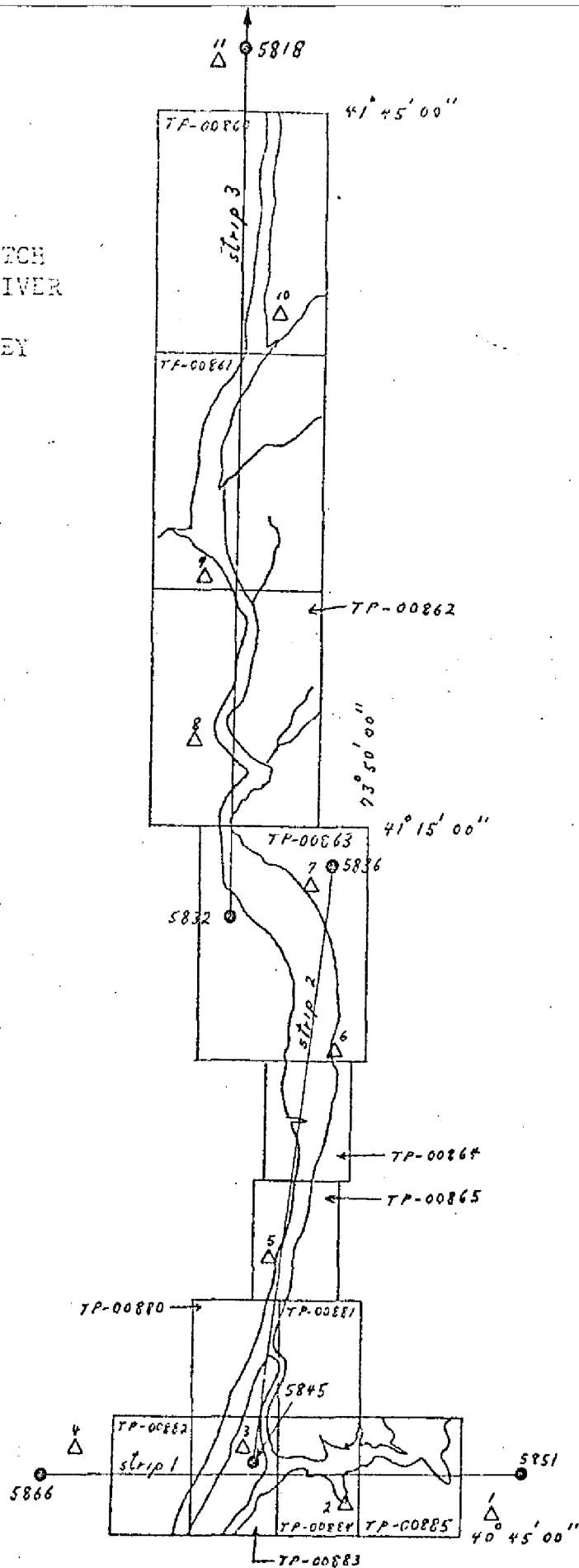
- 3 INTER, 1933 (-0.7, -0.2)
- 5 ALPINE, 1930 (+1.7, +0.8)
- 6 KING, 1932 (-2.2, -1.0)
- 7 LARKIN, 1932 (-1.8, -1.1)

Strip 3

- 7 LARKIN, 1932 (+1.3, -1.4)
- 8 BEAR MOUNTAIN, 1851 (+1.7, +2.1)
- 9 BUTTER HILL, 1880 (-2.4, +1.2)
- 10 ST. CLAIR 3, 1973 (-4.5, -4.4)
- 11 WEST PARK HOLLY CROSS (+5.0, +3.1)
MONASTARY CUPOLA, 1933
BECK, 1934 (+0.7, -1.1)
GREEN, 1934 (-1.8, +0.3)

AEROTRIANGULATION SKETCH
 EAST RIVER & HUDSON RIVER
 TO ROUGHKEEPSIE
 NEW YORK & NEW JERSEY
 CM-7403
 October, 1975

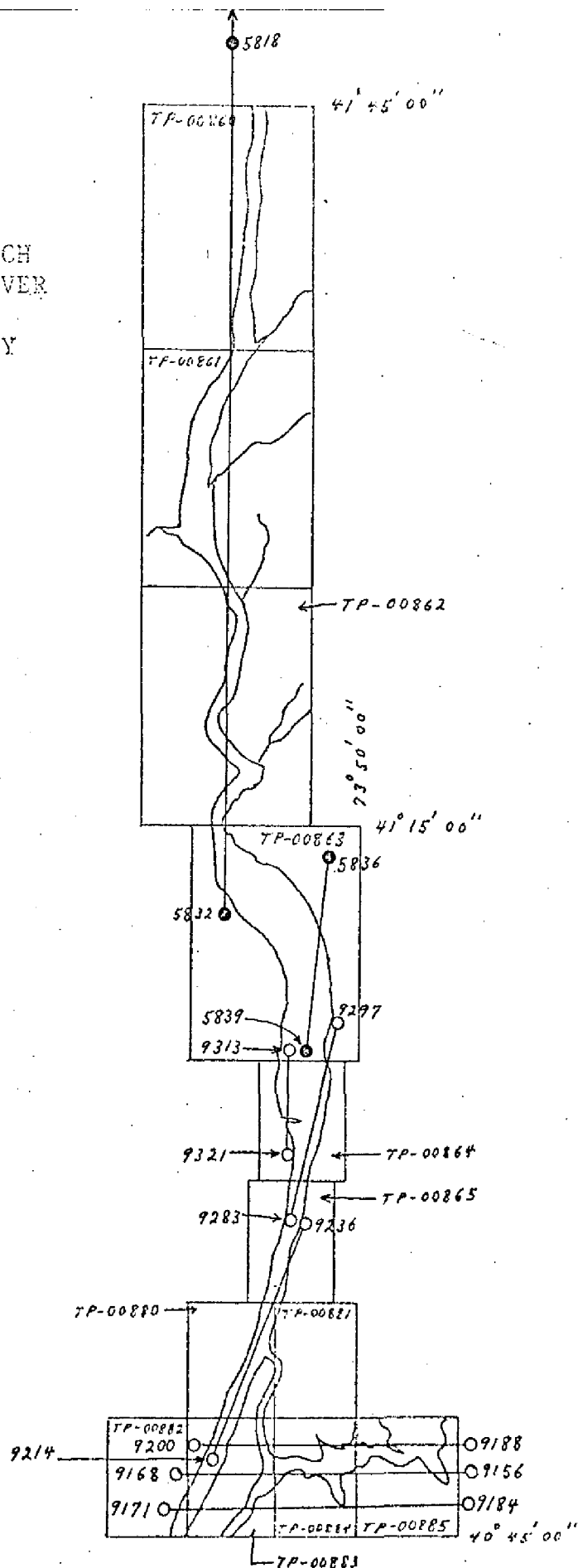
BRIDGING PHOTOGRAPHY
 • 75C(c) 1:60000



AEROTRIANGULATION SKETCH
 EAST RIVER & HUDSON RIVER
 TO POUGHKEEPSIE
 NEW YORK & NEW JERSEY
 CM-7403
 October, 1975

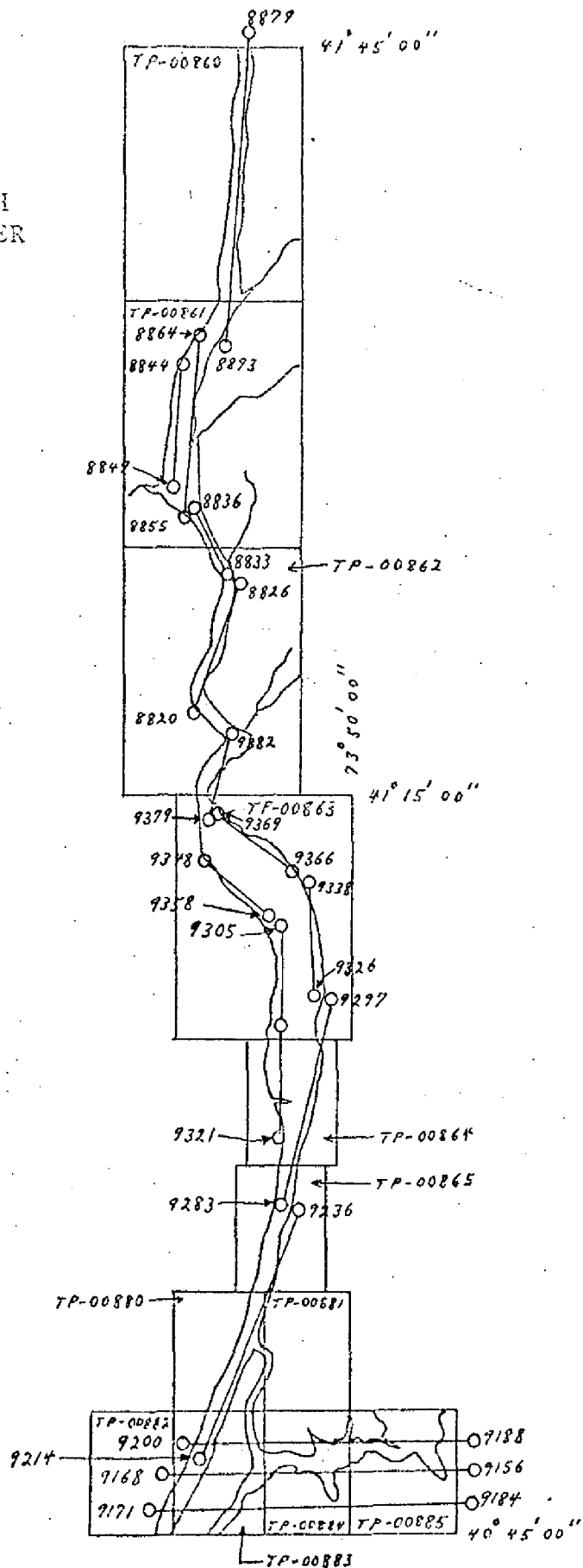
COMPILATION PHOTOGRAPHY

- 75C(c) 1:60000
- 75E(c) 1:20000



AEROTRIANGULATION SKETCH
 EAST RIVER & HUDSON RIVER
 TO POUGHKEEPSIE
 NEW YORK & NEW JERSEY
 CM-7403
 October, 1975

RATIO PHOTOGRAPHY
 075E(c) 1:20000



COMPILATION REPORT

Shoreline Survey
TP-00863

This map, and all maps in Job CM-7403, were compiled to provide shoreline for the construction of a new chart (scale 1:20,000) and for the maintenance of other nautical charts in the area.

Existing charts were checked for aids to navigation and USGS Quadrangles for locations of hospitals.

On the discrepancy print we have noted any features in which there was doubt as to position or identification.

31. Delineation

The shoreline and alongshore features were compiled stereoptically using 1:60,000 color photography. Interior features were compiled graphically from ratio prints made from the color photographs. The color transparencies were used for interpretation of these features. Control for the graphic compilation consisted of planimetric features compiled from stereo models of the bridging and compilation photography.

32. Control

Horizontal control was adequate using identifiable triangulation stations and PUG holes drilled for that purpose.

Vertical control was determined from USGS Quadrangles. This also was considered adequate.

33. Supplemental Data

None.

34. Contours and Drainage

There is no requirement for contours on this project.

35. Shoreline and Alongshore Details

Mean high water line: In bulkheaded and similar areas there was no problem in depicting the mean high water line. In other areas it was established by interpreting what could be seen along the shore or extrapolating from the water level in the photos. Once this was done the mean high water line was contoured on the level model. Where there was any question it was indicated on the discrepancy print.

Mean low water line: Since no tide-coordinated photography was taken, and considering the uncertainty of water penetration, no attempt was made to depict the mean low water line. However, shallow areas that could be seen were shown on the manuscript.

36. Offshore Details

No problems; photography was adequate.

37. Landmarks and Aids

See Forms 76-40.

38. Control for Future Surveys

None.

39. Junctions

Refer to attached Form 76-36B of the Descriptive Report or the index to adjoining sheets on the manuscript.

40. Horizontal and Vertical Accuracy

Refer to the Plot Report.

41. through 45.

Not applicable.

46. Comparison with Existing Maps

Comparison was made with the following Quads: Peekskill (1957), Haverstraw (1967), Ossining (1967), Nyack (1967), and White Plains (1967) USGS Quadrangles.

47. Comparison with Nautical Chart

Comparison was made with the following National Ocean Survey charts: 282 (12343), 1:40,000, dated November 1975 and 1213 (12363), 1:80,000, dated December 1975.

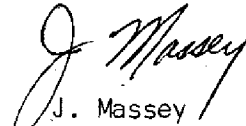
Items to be Applied to Nautical Charts Immediately

None.

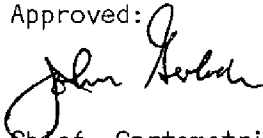
Items to be Carried Forward

None.

Submitted by:


J. Massey
Cartographer

Approved:



Chief, Cartometric Section

Final Review Report

CM-7403
Shoreline Survey TP-00863

61. General Statement

This map is registered as Class III. The field edit was postponed November 1976. Map detail is subject to changes pending a field edit inspection. Discrepancy prints and ratioed photographs are prepared and ready for field edit use.

62. through 64.

Inapplicable.

65. Comparison with Nautical Charts

This map was compared with chart 12343 (282), 1:40,000 scale, published November 1975.

66. Adequacy of Results and Future Surveys

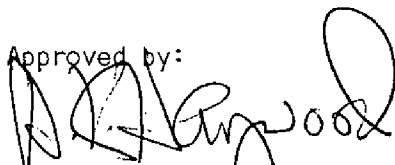
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:



J. B. Phillips
Cartographer

Approved by:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB
VERSION
770818

* SVY TP-00863 * * RPT UNIT CMD ROCKVILLE, MD. * PAGE 1 OF 5 *
* JOB CM-7403 * NONFLOATING AIDS FOR CHARTS * STATE NEW YORK *
* PRJ HUDSON R. * TO BE REVISED * LOCALITY HAVERSTRAW BAY * ORIGINATING ACTIVITY *
* DTM NA 1927 * * DATE 07/29/77 * COMPILATION *

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

DESCRIPTION	POSITION	CMD	METHOD AND DATE	CHARTS	AFFECTED
RECORD REASON FOR DELETION	LATITUDE DM	ALTEK	OF LOCATION		
NAME PUT TRIANGULATION NAMES IN ()	LONGITUDE DP	DGTZD	OFFICE FIELD		

* NEW YORK HARBOR
* LOWER HUDSON RIVER

* -LIGHT * 41 08 17.17 529.7 * 75C5838 *
* 6 * 73 52 44.62 1040.7 * 05/08/75 * 282 *

* LIGHT * ROCKLAND LAKE LIGHT * 41 08 50.02 1543.0 NOT * 75C5838 *
* (ROCKLAND LIGHT, 1932) * 73 54 18.07 421.4 DGTZD * 05/08/75 * 282 *

* LIGHT * HAVERSTRAW BAY SOUTH REACH * 41 09 41.67 1285.5 * 75C5838 *
* RANGE FRONT LIGHT * 73 55 17.72 413.1 * 05/08/75 * 282 *

* LIGHT * HAVERSTRAW BAY SOUTH REACH * 41 09 48.58 1498.6 * 75C5838 *
* RANGE REAR LIGHT * 73 55 21.64 504.5 ✓ * 05/08/7 * 282 *

* -LIGHT * 41 10 34.01 1049.2 * 75C5838 *
* 11 * 73 56 09.98 232.6 * 05/08/7 * 282 *

* LIGHT * BOWLING POINT MARINE TERMINAL * 41 12 09.75 300.8 * 75C5831 *
* SOUTH DOLPHIN LIGHT * 73 57 22.01 512.8 * 05/08/7 * 282 *

* LIGHT * BOWLING POINT MARINE TERMINAL * 41 12 16.08 496.1 * 75C5831 *
* NORTH DOLPHIN LIGHT * 73 57 24.01 559.4 * 05/08/7 * 282 *

* LIGHT * GRASSY POINT LIGHT * 41 13 08.71 268.7 * 75C5831 *
* * 73 57 43.39 1010.7 * 05/08/7 * 282 *

* LIGHT * STONY POINT LIGHT 17 * 41 14 27.24 840.3 NOT * 75C5831 *
* 17 * (STONY POINT LIGHT, 1932) * 73 58 10.85 252.7 DGTZD * 05/08/75 * 282 *

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	NO FIELD EDIT-CLASS 111 MAP	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	J. MASSEY	OFFICE COMPILER
FIELD AND OFFICE	J. MASSEY	DIGITIZER
ACTIVITIES	J. MASSEY	DATA PROCESSER

DATATAB
VERSION
770818

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* POSITIONS DETERMINED	* NO FIELD EDIT-CLASS 111 MAP	* FIELD REPRESENTATIVE	*
* AND/OR VERIFIED BY	* J. MASSEY	* OFFICE COMPILER	*
* FIELD AND OFFICE	* J. MASSEY	* DIGITIZER	*
* ACTIVITIES	* J. MASSEY	* DATA PROCESSER	*

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB
VERSION
770818

* SVY TP-00863 * * RPT UNIT CMD ROCKVILLE, MD. * PAGE 3 OF 5 *
* JOB CM-7403 * LANDMARKS FOR CHARTS * STATE NEW YORK *
* PRJ HUDSON R. * TO BE REVISED * LOCALITY HAVERSTRAW BAY *ORIGINATING ACTIVITY*
* DTM NA 1927 * * DATE 07/29/77 * COMPILATION *

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

DESCRIPTION	POSITION	CMD	METHOD AND DATE	CHARTS	AFFECTED
RECORD REASON FOR DELETION	LATITUDE DM	ALTEK	OF LOCATION		
NAME PUT TRIANGULATION NAMES IN ()	LONGITUDE DP	DGTZD	OFFICE FIELD		

SPIRE * (TARRYTOWN SAINT THERESA	41 05 00.42	13.0	NOT	75C5839	
* CATHOLIC CHURCH CROSS, 1930)	73 51 52.11	1216.4	DGTZD	05/08/75	282

TWR.AB * (TARRYTOWN LIGHTHOUSE, 1897)	41 05 02.19	67.6	NOT	75C5839	
* LT HO *	73 52 28.78	671.8	DGTZD	05/08/75	282

BELL * (NYACK SAINT PAULS METHODIST	41 05 09.59	295.8	NOT	75C5839	
* TOWER * EPISCOPAL CHURCH TOWER, 1930)	73 55 12.42	289.9	DGTZD	05/08/75	282

CLOCK * (NYACK REFORMED CHURCH CLOCK	41 05 25.11	774.6	NOT	75C5839	
* TOWER * TOWER, 1930)	73 55 08.72	203.5	DGTZD	05/08/75	282

CLK TR * (NYACK, 1930)	41 05 44.28	1366.0	NOT	75C5839	
* SCHOOL *	73 55 23.11	539.3	DGTZD	05/08/75	282

STANDP * (BRIARCLIFF MANOR SOUTH	41 07 33.57	1035.6	NOT	75C5838	
* IPE * STANDPIPE, 1966)	73 50 33.53	782.2	DGTZD	05/08/75	282

TANK * (BRIARCLIFF MANOR KINGS	41 08 49.74	1534.4	NOT	75C5838	
* COLLEGE TANK, 1966)	73 50 24.80	578.3	DGTZD	05/08/75	282

TOWER * GUARD TOWER	41 08 58.94	1818.2		75C5838	
* *	73 52 18.66	435.1		05/08/75	282

TOWER * GUARD TOWER	41 09 02.92	90.1		75C5838	
* *	73 52 18.53	432.1		05/08/75	282

S. * (SING, 1932)	41 09 08.04	248.0	NOT	75C5838	
* TANK *	73 51 58.04	1353.4	DGTZD	05/08/75	282

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	NO FIELD EDIT-CLASS 111 MAP	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	J. MASSEY	OFFICE COMPILER
FIELD AND OFFICE	J. MASSEY	DIGITIZER
ACTIVITIES	J. MASSEY	DATA PROCESSER

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB
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* SVY	TP-00863	*	* RPT UNIT	CMD ROCKVILLE, MD.	*	PAGE	4 OF 5	*
* JOB	CM-7403	*	* STATE	NEW YORK	*			*
* PRJ	HUDSON R.	*	* LOCALITY	HAVERSTRAW BAY	*	*ORIGINATING	ACTIVITY*	
* DTM	NA 1927	*	* DATE	07/29/77	*	* COMPILATION		*

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* CHARTING*	RECORD REASON FOR DELETION	*	* LATITUDE	DM	ALTEK*	OF LOCATION	* CHARTS *
* NAME *	PUT TRIANGULATION NAMES IN ()	*	* LONGITUDE	DP	DGTZD*	OFFICE * FIELD	*AFFECTED*

* STACK	* (OSSINING SING SING PRISON	*	* 41 09 10.26	316.5	NOT *	75C5838 *	* 282 *
	* STACK, 1932)	*	* 73 52 12.87	300.1	DGTZD*	05/08/75 *	
* SPIRE	*	*	* 41 09 31.99	986.8	* 75C5838 *	* 282 *	
	*	*	* 73 51 39.95	931.4	* 05/08/75 *		
* STAND-*	* (BRIARCLIFF MANOR NORTH STAND-	*	* 41 09 33.75	1041.1	NOT *	75C5838 *	* 282 *
* PIPE	* PIPE, 1966)	*	* 73 50 41.31	963.1	DGTZD*	05/08/75 *	
* STACK	* (HARMON RAILWAY SHOPS STACK,	*	* 41 11 28.74	886.6	NOT *	75C5837 *	* 282 *
	* 1932)	*	* 73 53 11.18	260.5	DGTZD*	05/08/75 *	
* TOWER	* (HARMON PARK PIERRE VAN	*	* 41 12 18.08	557.7	NOT *	75C5837 *	* 282 *
	* CORTLANDT HIGH SCHOOL TR 1966)	*	* 73 53 01.73	40.3	DGTZD*	05/08/75 *	
* CHURCH	* (HAVERSTRAW SAINT MARYS CHURCH	*	* 41 11 56.98	1757.8	NOT *	75C5831 *	* 282 *
* SPIRE	* CROSS ON SPIRE, 1932)	*	* 73 58 17.96	418.5	DGTZD*	05/08/75 *	
* SPIRE	* (HAVERSTRAW SAINT PETERS	*	* 41 12 02.07	63.9	NOT *	75C5831 *	* 282 *
	* CATHOLIC CHURCH SPIRE, 1900)	*	* 73 58 03.95	92.0	DGTZD*	05/08/75 *	
* TANK N	* (MONTROSE F.D.R. VETERANS HOSP	*	* 41 14 26.93	830.8	NOT *	75C5831 *	* 282 *
* OF TWO	* NORTH WATER TANK, 1964)	*	* 73 55 54.07	1259.1	DGTZD*	05/08/75 *	
* SPIRE	*	*	* 41 13 28.33	874.0	* 75C5831 *	* 282 *	
	*	*	* 73 58 05.02	116.9	* 05/08/75 *		
* TOWER	* (STONY POINT LIGHTHOUSE, 1851)	*	* 41 14 28.53	880.1	NOT *	75C5831 *	* 282 *
	*	*	* 73 55 19.73	459.4	DGTZD*	05/08/75 *	

* TYPE OF ACTION	*	* NAMES OF RESPONSIBLE PERSONNEL	*	* ORIGINATOR	*
	*		*		*
	*		*		*
	*		*		*
* POSITIONS DETERMINED	*	* NO FIELD EDIT-CLASS 111 MAP	*	* FIELD REPRESENTATIVE	*
* AND/OR VERIFIED BY	*	* J. MASSEY	*	* OFFICE COMPILER	*
* FIELD AND OFFICE	*	* J. MASSEY	*	* DIGITIZER	*
* ACTIVITIES	*	* J. MASSEY	*	* DATA PROCESSER	*

DATATAB
VERSION
770818

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* * CHARTED LDMK(S) NOT VUSBLE ON COMPIATION PHOTOS AND APPEAR * * *

* * DESTROYED. CONDITION OF TRIANGULATION STATION IS UNKNOWN. * * *

	*			*	*	*
*	*			*	*	*

* * *	CHARTED LDMK(S) NOT VISIBLE ON COMPILATION PHOTOS AND APPEAR	* * *
* * *	DESTROYED. APPROX. POSITION(S) SCALED FROM EXISTING CHART.	* * *

✱	✱	✱	✱	✱	✱	✱
✱	✱	✱	✱	✱	✱	✱

[illegible][illegible]

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* TYPE OF ACTION *	* NAMES OF RESPONSIBLE PERSONNEL *	* ORIGINATOR *
-----	*-----*	*-----*
* * *	* * *	* * *
* POSITIONS DETERMINED	* NO FIELD EDIT-CLASS III MAP	* FIELD REPRESENTATIVE
* AND/OR VERIFIED BY	* J. MASSEY	* OFFICE COMPILER
* FIELD AND OFFICE	* J. MASSEY	* DIGITIZER
* ACTIVITIES	* J. MASSEY	* DATA PROCESSER

