

4585
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SUPPLEMENTAL T

Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton *Director*

U. S. COAST & GEODETIC SURVEY
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State: New York

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DESCRIPTIVE REPORT

Pho-
Topographic
Hydrographic

Sheet No. 4585

LOCALITY

East bank of Hudson River;

Irvington to Tarrytown.

19.31

CHIEF OF PARTY

O. S. Reading

U. S. GOVERNMENT PRINTING OFFICE: 1923

SUPPLEMENTAL T

Descriptive Report to Accompany
Air Photo Topographic Sheet No. 4585.
Irvington to Tarrytown.

This sheet is a compilation of two overlapping strips of single lens photographs, numbers 571 to 590 and numbers 482 to 486 shore strip. Photographs 571 to 590 were taken September 4, 1930, 12:50 P.M. Photographs 482 to 486 were taken September 4, 1930, 11:50 A.M. The inshore photographs are numbers 143 to 149 and 487 to 494. Photographs 143 to 149 were taken September 28, 1930, 1:40 P.M. Photographs 487 to 494 were taken September 4, 1930, 12:20 P.M. The stage of the tide, September 4, 1930, at the time the pictures were taken, was two hours after a minus -0.5 foot tide. The stage of the tide on September 28, 1930, was 3.0 feet.

Limits of Sheet 4585.

This sheet includes the area between Irvington and Tarrytown on the east bank of the Hudson River. The sheet extends about one mile inland.

Control.

This sheet is controlled by triangulation executed in 1930. A plane table survey of the shoreline was made in September, 1930, but was not used as control on this sheet due to the large distortion of the topographic sheet. There was sufficient triangulation to control the plotting of the photographs without using the plane table survey of the shoreline.

Compilation.

A 1:5000 projection was made on a sheet of celluloid. The shoreline from T-4560 was traced on the projection for use as a guide in making a radial plot of the pictures.

The scale of the negatives is approximately 1:10,000. A spotting plot was made from prints of these negatives to obtain the average scale of the photographs. After obtaining the average scale of 1:10,000 prints, the negatives were enlarged to prints of 1:5000.

All triangulation stations and radial points were marked on the enlarged photographs.

After all triangulation stations were plotted on the projection, a graphic radial line plot was made with the enlarged pictures holding to the triangulation, the shore strip being plotted first as the inshore strip did not have as much overlap. There was fifty (50)

per cent overlap or more on all pictures except two. A very good radial plot was obtained as the control was well distributed over the entire sheet.

Landmarks for Charts.

Landmarks for charts are submitted on form 567 as recommended by the Commanding Officer of the NATOMA, 1930.

Discrepancies.

In general, the shoreline agrees very well with T-4560. There is a discrepancy in the location of the red brick house just north of station "Doc". This discrepancy may have been caused by the preliminary computation of station "Doc" being in error, and that when the adjustment in the traverse was made between stations "Doc" and "Tar" the error was not noted. The detail north of "Tar" on T-4560 checks excellent with air photo sheet 4585.

Names.

Names for this were obtained from a Sanborn map of 1924 and chart 281.

Symbols.

Standard topographic symbols were used throughout this sheet. The widths of the roads and streets extend to the curb line.

Respectfully submitted,

Marshall H. Reese,
Aid, C. & G. Survey.

Approved:

O. S. Reading
O. S. Reading,
Chief of Party.

APPROVED

K. T. Adams
FIELD RECORDS (O)
(O) SCROOCH FIELD

L. O. Lobnitz
Chief, Division of Charts

F. Borden
Chief, Section Field Work

G. Hude
Chief, Div. of Hyd'y and Top'y

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

193

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and ~~should be charted~~ were recommended for charting on proposed anchorage chart by Commanding Officer of the NATOMA-1930.

O. S. Reading Chief of Party.

[illegible]

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, 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 of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

T-4585

Duplicata

DIVISION OF CHARTS, FILE NO. _____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

193

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.~~ **were recommended for charting on proposed anchorage chart by Commanding Officer of the NATOMA 1930.**

O. S. Reading							Chief of Party.		
DESCRIPTION	POSITION						METHOD OF DETER- MINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					DATUM
	°	'	D. M. METERS	°	'	D. P. METERS			
Church, Irvington Spire	41	02	(1048.8) 804.3	73	51	(116.3) 1285.2	N.A.	Triang.	748
Steve, black tank	41	02	(935.1) 916.0	73	51	(921.0) 480.4	"	"	---
Four, Grey tower	41	03	(1399.6) 451.5	73	52	(1305.8) 495.3	"	"	
Yel, yellow brick stack	41	04	(1709.6) 141.4	73	51	(56.0) 1344.8	"	"	
Thin, Church Spire	41	04	(979.2) 871.9	73	51	(637.3) 763.3	"	"	
Reformed Church Spire	41	04	(656.5) 1194.4	73	51	(734.0) 666.6	"	"	
Pope, Church Spire	41	05	(1826.7) 24.4	73	51	(185.8) 1214.7	"	"	
Let, Black Tank	41	04	(43.9) 1807.2	73	52	(1185.6) 215.0	"	"	
Tarrytown Lighthouse	41	05	(1771.8) 78.9	73	52	(730.6) 669.8	"	"	
Chev. yellow brick stack	41	05	(1466.1) 384.9	73	52	(1106.1) 294.5	"	"	
Fish, black tank	41	05	(1465.1) 385.8	73	52	(959.0) 441.5	"	"	
Grey, tower on house	41	04	(1811.9) 39.0	73	50	(69.8) 1331.1	"	"	
West, Flagpole	41	04	(1705.1) 145.9	73	51	(1093.1) 307.8	"	"	
Short, spire on house	41	03	(75.9) 1775.2	73	51	(830.3) 520.5	"	"	
Clok, tower on city hall	41	02	(1181.8) 669.1	73	52	(1256.6) 144.7	"	"	748
La, Cross on Cupola	41	05	(1583.0) 239.0	73	51	(1355.6) 44.8	"	"	
White, cone shaped cupola	41	03	(1597.5) 253.6	73	51	(125.6) 1277.6	"	"	

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEYREG. NO.
4585

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 Letter

REGISTER NO. 4585

State New YorkGeneral locality East bank, Hudson RiverLocality Irrington to TarrytownScale 1:5000 Date of ^{pictures} survey Sept. 4 & 28, 1930Vessel Aerotopograph Corp. AirplaneChief of Party O. S. ReadingSurveyed by M. H. ReeseInked by M. H. Reese

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated (Control and compilation) July 22, 1930Remarks: This sheet is a compilation of single lens photographsNos. 571 to 590; 482 to 486; 143 to 149; 487 to 494 and wasU. S. GOVERNMENT PRINTING OFFICE: 1925
printed by photo lithographic process.

REPORT FOR T-4585 SUPPLEMENTAL

The corrections shown in red were plotted in this office from single lens photographs without the aid of field inspection. No field inspection is contemplated at this time. *These corrections were reported to the cartographic section in March 1939 for correction of chart 748.*

PHOTOGRAPHS

Single lens 7 x 9, Scale 1:10,000

Photographs were taken February, 1939, by the Photographic Unit of the Naval Air Station, Washington, D. C.

Negatives are on file in this office.

PLOT

Corrections shown in red were plotted from single lens contact prints by L. C. Lande.

B. J. Jones
June 19, 1939