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Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R.S. Patton, Director

State: New York

DESCRIPTIVE REPORT

Photo- ☒ Topographic
☒ Hydrographic } Sheet No. 4571

LOCALITY

East bank of Hudson River

Ludlow St. Yonkers to

Palisades Yacht Club.

19 30.

CHIEF OF PARTY

O. S. Reading

U. S. COAST & GEODETIC SURVEY
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DESCRIPTIVE REPORT TO ACCOMPANY

AIR PHOTO TOPOGRAPHIC SHEET

No. 4571 - Ludlow St. Yonkers to Palisades Yacht Club.

This sheet is a compilation of two overlapping strips of single lens photographs, numbers 84 to 102 shore strip; numbers 123 to 134 inshore strip. Photographs 84 to 102 were taken September 28, 1930, 1:20 P. M. Photographs 123 to 134 were taken September 28, 1930, 1:40 P. M. The stage of the tide as taken from tide tables is 3.0 feet.

LIMITS OF SHEET 4571

This sheet includes the area between Ludlow Street, Yonkers, and Palisade Yacht Club on the east shore of the Hudson River. The sheet extends about one mile inland.

CONTROL

The sheet is controlled by triangulation executed in the years 1911, 1921, and 1930. A plane table survey of the shoreline was made in August 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 sheet without using control from other sources.

COMPILATION

A 1:5000 projection was made on a celluloid sheet. All triangulation stations were plotted on the projection and shoreline traced from Topographic sheet No. 4558.

The scale of the photographs is approximately 1:10,000. A spotting plot was made to obtain the average scale of the photographs. After obtaining the average scale of the photographs, the negatives were enlarged to a scale of 1:5000. All triangulation stations and radial points were identified on the enlarged photographs.

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 had about 40 per cent overlap. This deficiency in overlap resulted in a weak plot of the inshore strip. Due to the fact that this sheet had well distributed control, the accuracy of the eastern portion of the sheet was not impaired to a very large extent.

LANDMARKS FOR CHARTS

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

DISCREPANCIES


It will be noted that several of the docks and some of the shoreline has been changed from the positions as located on Topographic sheet 4558. No serious errors were noticed. The errors that were found are probably due to the distortion of the topographic sheet. The railroads in Yonkers railway yard are not exact, but each switch is drawn as near correct as could be interpreted from the photographs.

NAMES


Names for this sheet were obtained from Topographic sheet 4558, Sanborn Map of Yonkers, and street guide and map of Yonkers.

SYMBOLS

Standard topographic symbols were used throughout the sheet. The widths of streets and roads extend to the property lines.


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

Approved:


O. S. Reading,
Chief of Party.

K. T. Adams
FIELD RECORDS (C)


Chief, Division of Charts

APPROVED


Chief, Section Field Work


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

T 4571

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Washington, D. C.

_____, 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~~ and are recommended for charting on the proposed anchorage chart by the Commanding Officer of the NATOMA, 1930.

O. S. Reading Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED		
	LATITUDE		LONGITUDE		DATUM				
	°	'	D. M. METERS	°				'	D. P. METERS
Center of Gas Tank	40	55	(947) 904	73	54	(1022) 382	N.A. Photo-Topo.	747	
Flag on Cupola of Apartment	40	55	(723) 1127	73	53	(34) 1370	N.A.	" "	747
Stack, Spreckles Sugar Refin.	40	55	(400) 1450	73	54	(973) 431	N.A.	" "	747
Stack, " " "	40	55	(334) 1516	73	54	(1016) 388	N.A.	" "	747
Tank, Nat. Sugar Refinery	40	55	(10) 1840	73	54	(1009) 395	N.A.	" "	747
Flag Pole, Recreation Pier	40	56	(721) 1129-20	73	54	(972) 432	N.A.	" "	747
*Tanks, Hudson Fuel Co.	40	56.4		73	54.2		N.A.	" "	747
Stack, Habirshaw Cable Co.	40	56	(278) 1572	73	54	(1326) 78	N.A.	" "	747 748
Inner Stack, Glennwood Power House.	40	57	(1708) 142	73	53	(28) 1375	N.A.	" "	748
Green Cupola & Weather Vane on Yonkers Museum	40	57	(1354) 507	73	53	(280) 1123	N.A.	" "	748
Flag Pole on battlemented cupola or red brick bldg.	40	57	(1054) 796	73	53	(753) 651	N.A.	" "	748
* House with red roof	40	57.4		73	53.8		N.A.	" "	748
* 7-story yellow Apartment	40	57.6		73	53.6		N.A.	" "	"
* Large house with slate roof	40	57.6		73	53.3		N.A.	" "	"
* 5-story gray brick house	40	58.3		73	53.4		N.A.	" "	"
* 7-story dark red brick apt.	40	58.4		73	53.3		N.A.	" "	"
* Gray house with green slate	40	58.4		73	53.1		N.A.	" "	"

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, flagstaffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Washington, D. C.

APR 11 10 1931

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~~ and are recommended for charting on the proposed anchorage chart by the Commanding Officer of the NATOMA 1930

O. S. Reading

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	'	D. M. METERS	°			
*Light brown house, gray roof	40	58.6		73	53.3		N.A. Photo-Topo. 748
*Prominent colonial house with columns	40	48.5		73	53.0		N.A. " " 748
Flag pole on tower of house, St. Untermeyer	40	57	(208.9) 1641.9	73	53	(308.5) 1094.4	NA. Triang. position 7
Hot house, Sta. Hot	40	58	(1249.9) 600.6	73	53	(1219.3) 183.8	N.A. " 748
Steeple on Monastery, Sta. Steeple	40	57	(1800.1) 50.6	73	53	(1160.1) 243.2	N.A. " 748
Outer Stack Greenwood Power House, Sta. Twin (out)	40	57	(1702.1) 148.7	73	54	(1599.6) 03.7	N.A. " 748
Water tower, Sta. Lake Ave.	40	56	(193.6) 1667.2	73	53	(798.4) 606.3	N.A. " 748
Silver colored water tank, Sta. Otis	40	56	(1116.6) 734.2	73	53	(23.4) 1360.3	N.A. " 747
Tall brick stack, waterfront, Sta. Taller	40	55	(18.8) 1831.9	73	54	(1036.6) 367.2	N.A. " 747
Tall yellow brick stack, Sta. Alex.	40	56	(1597.8) 252.9	73	53	(507.3) 896.4	N.A. " 747
City Hall Yonkers, Sta. City	40	55	(132.8) 1718.0	73	53	(139.3) 1264.8	N.A. " 747
Brick Water Tower, Sta. Nodine	40	55	(260.5) 1590.2	73	53	(1245.1) 158.6	
* Approximate position, see airphoto sheet No. 4571.							
checked by B.G.							
Copy ✓ by M.H.							

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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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4571

PHOTO - 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.

REGISTER NO. 4571

State..... New York

General locality..... Yonkers

Locality Ludlow St. Yonkers to Palisades Yacht Club
pictures

Scale 1:5000 Date of ~~survey~~ Sept. 28, 19 30.

Vessel Aerotopograph Corporation Airplane

Chief of Party O. S. Reading

Surveyed by M. H. Reese

Inked by M. H. Reese

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

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

Instructions dated (Compilation & Control) July 22, 19 30

Remarks: Compilation of single lens air photographs Nos.

84 to 103, & 123 to 134, and printed by photolithographic process

REPORT FOR SUPPLEMENTAL T-4571

Corrections shown in red on T-4571 Supplemental were plotted in the office from single lens Air Photographs without field inspection.

Corrections shown in blue were plotted in this office from the field inspection data supplied this office by the Tender GILBERT.

PHOTOGRAPHS

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

Negatives are on file in this office. Photographs were taken in February, 1939, by the Photographic Unit of the Naval Air Station, Washington, D. C.

PLOT

Details in red and blue were compiled from a radial plot using 1:5,000 scale ratio prints. Those details shown in red were plotted in March, 1939, by L. A. McGann and L. C. Lande and were reported to the Nautical Chart Section for the correction of Chart 747.
748

Details in blue were plotted in May, 1939, after receipt of the Field Inspection and were not reported to the Nautical Chart Section until June 3, 1939.

HYDROGRAPHIC SURVEY

H-6430 (1939), 1:5,000.

The shoreline on the contemporary hydrographic survey is from T-4571 prior to the above corrections and has not been corrected to agree with T-4571 Supplemental.

CHART 747

The dolphins shown on Chart No. 747, Lat. 40°56.5', Long. 73°54.2' are too close to the end of the pier. See T-4571. The label stacks at Lat. 40°55.7', Long. 73°54.2' should be "stack".

*Field inspection notes are on file 748
photo profiles and on a copy of chart 747 filed
as Blue prints 32855 and 32856.*

*B.G. Jones
6/19/39*