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	Ed. June, 1928 DEPARTMENT OF COMMER	CE .			
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Photo-	Topographic Sheet No. 457.		,	}	
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DESCRIPTIVE REPORT TO ACCOMPANY AIR PHOTO TOPOGRAPHIC SHEET

No. 4570 - Englewood Yacht Club to Alpine

This sheet is a compilation of two overlapping strips of single lens photographs, numbers 209 to 219, 253 to 261, shore strip; 159 to 171, inshore strip. Photographs 209 to 219 were taken September 4, 10:20 A.M. Photographs 253 to 261 were taken September 4, 11:00 A.M. Photographs 159 to 171 were taken September 28, 12:00 N. The stage of the tide on September 4, 10:20 A.M. is 0.7 foot; on September 28, 12:00 N., the height of tide is 3:2 feet.

Limits of Sheet 4570

This sheet includes the area between Englewood Yacht Club to Alpine on the west bank of the Hudson River and extends about one mile inland.

Control.

This sheet is controlled by triangulation executed in 1930 and a plane table survey of the shoreline made in August, 1930. There were sufficient stations along the shore to control the plotting of the shore strip, but there was only one station over one-half mile inshore. This resulted in the western limits of the sheet not being controlled as well as they should be.

Compilation.

A 1:5,000 projection was made on a celluloid sheet. All triangulation stations and other points obtained from the plane table sheet were plotted on the celluloid projection. The shoreline obtained from Topographic Sheet 4557 was traced on the projection.

The scale of the photographs is approximately 1:10,000. A spotting radial 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 1:5,000.

A graphic radial line plot was made with the enlarged pictures holding to the control on the sheet. The same points were identified on photographs of the different strips. The radial plot of the shore strip was made first due to having more control. A plot was then made of the inshore strip, and if the common points did not intersect, a replot was made until the correct intersections were obtained. If the two strips had been plotted correctly in the beginning, points common to both strips would have had common inter-

sections. It is very easy to get off in azimuth in making the radial plot. Therefore if the proper azimuth is not held to in making the radial plot, good intersections of the radials will not be obtained.

The inshore strips of pictures had an overlap of 40 per cent, which is not sufficient to obtain a rigid radial plot. This deficiency of overlap was easily noticed as trouble was experienced in securing the proper radial plot between the two strips. Therefore, it is seen that an overlap of at least 55 per cent is needed and 60 per cent is desired to obtain a rigid radial plot.

Landmarks for Charts.

Landmarks for charts are submitted on Form 567.

Names.

Names for this sheet were obtained from topographic sheet 4557 and a blue-print obtained from the Palisades Interstate Park Commission.

Symbols.

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

Marshall H. Reese

Aid, C. & G. Survey.

Approved;

O. S. Reading, Chief of Party.

APPROVED

Chief, Section Field Work

Chief, Division of Charts

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

DIVISION OF CHARTS, FILE NO.____

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

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	March 30							, 193 1	
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The following determined escription given below, and shopped anchorage chart	عليتم	be c	urted end	i a	ro ro	commended	for c	harting c	award from the
						C	. S. F	deading	Chief of Party.
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DESCRIPTION	LATITUDE		LONGITUDE		DATUM				
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ouse with many chimneys	40	53.7		73	56.4			10	7,47
bservation stand		54.5		73	56.0			**	747
reen House	40	55. 7		73	55.6		17	17	747
erge grey house with		55.7		"	-55-6			77	747
mall grey house with		55.8			_55.6			pp •	747
ight brown house with		55.9			58.6		n	<u>n</u>	747
himney north end two- tory green house		56.5	250 (675)		- 55 -6	33 - (670)	17	Topo	747 char
orth F.P. on park bldg. t Under Cliff Beach	1		661 (264)	-	_56 _	651 (52)	Ω	Ħ	F.P. 747 char
,	40	53	08 (9 1 7)	73	56.5	199 (504)		89	747
These positions were to	ke	fro	Topogr	aph	ic No	4557		_	
Appreximate pasitie	2, -	Sce	ax Ph	oto	She	+ 45	70		

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, tail 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

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. 4570
State New Jersey
General locality West bank Hudson River
Locality Englewood Yacht Basin to Alpine
Scale 1:5,000 Date of survey Sept. 4 & 28 , 1930
Vessel Aerotopograph Corporation airplane
Chief of Party 0. 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 intervalfeet
Instructions dated (Control and compilation) July 22 , 1930
Remarks: Compilation of single lens air photographs Nos.
209-219; 253-261 and 159-171; and printed by photolithographi
process.

4570

REPORT FOR SUPPLEMENTAL T-4570

Corrections shown in red on T-4570 were plotted in the office in March 1939, from single lens Air Photographs without field inspection and reported to the Cartographic Section for correction of Chart 747.

Corrections shown in blue were plotted in this office in May 1939, after receipt of the field inspection data supplied this office by the Tender GILBERT. Details in blue reported to Nautical Chart Section June 3, 1939.

Photographs

Single lens 7 x 9, Scale 1:10,000. Negatives are on file in this office. The photographs were taken in February 1939, by the Photographic Unit of the Naval Air Station, Washington, D. C.

Plot

The details in red and blue were plotted from contact prints by L. C. Lande.

Hydrographic Survey

The shoreline on the contemporary Hydrographic survey is from T-4570 prior to the above correction, and has not been corrected to agree with T-4570 Supplemental.

BJ gones 6/19/39