

5753

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Diag'd. on Diag. Ch. No. 77-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey AIR PHOTO

Field No. Office No. T-5753

LOCALITY

State District of Columbia

General locality Potomac River

Locality Georgetown to Chain Bridge

1943

CHIEF OF PARTY

T.H. Price, Jr.

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO. T-5753

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. T-5753

State D.C.

General locality Potomac River

Locality Georgetown to Chain Bridge

Scale 1:10,000 Date of photo June 29, 1938
survey Oct. 25, 1938

Vessel.....

Chief of party T. M. Price, Jr., Section of Field Records

Surveyed by see page 1 of this report

Inked by.....

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

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

Instructions dated....., 19.....

Remarks: Compiled on scale 1:10,000. Scale factor 1.00

Refer to page 1 for additional data.

Registered - 3/11/49

Data Record T-5753

Photographs

Nos.	Date	Time	Scale (approx.)	Altitude (approx.)	Tide
2064,-5,-7	June 29, 1938	11:20 A.M.	1:10,000	6,900 ft.	1.0' below H
2078	" 29, 1938	11:40 A.M.	1:10,000	6,900 ft.	1.2' below H
2666	Oct. 25, 1938	11:30 A.M.	1:10,000	6,900 ft.	0.8' below H

Camera: U. S. Coast and Geodetic Survey, nine lens, F = 8-1/4".
Negatives on file: Washington office.

The stage of the tide at the time the photographs were taken was derived both from field examination of the photographs and tide tables. The following information regarding the tide of the river at this point was derived from tide tables.

Mean range: 2.8'
Spring range: 3.2'

SUPPLEMENTAL SURVEYS

Field inspection by Personnel of Field Records Section

The details on T-5753 are of the date of the June 1938 photographs except for the items discussed in detail on page ____.

Chief of Party - T. M. Price, Jr., Section of Field Records
Projection by - Ruling Machine, April 9, 1940
Scale factor 1.00 (1:10,000)
Control plotted by - L.V. Evans, III, C.W. Lewin, April 1940
Control checked by - L.V. Evans, III, C.W. Lewin, and Harry Wowra,
April 1940

Radial plot by - C.W. Lewin, June-August 1940
Compiled by - C.W. Lewin, June-August 1940

Smooth drafted by -

Reference station: Western, 1935 (D.C. p. 20)
Latitude: 38° 54' 45.665" (1408.2 meters)
Longitude: 77° 04' 13.743" (331.1 meters) (Adjusted)

Title: D.C.
Potomac River
Georgetown to Chain Bridge

State plane coordinate system: *(not shown)*

Maryland: (p.42)

Virginia (North Zone) (p.16)

x coordinate: 779,943.81 ft.
y coordinate: 393,083.30 ft.

x coordinate: 2,406,755.33
y coordinate: 456,923.86

DESCRIPTIVE REPORT AND REVIEW FOR AIR PHOTOGRAPHIC
SURVEY T-5753

GENERAL INFORMATION

Both the office and field surveys were executed by members of the Field Records Section of the Washington office.

The map drawing was compiled by standard radial plot methods using nine-lens photographs without templates.

The surveys on this project were made for correction of the topography on chart 560. T-5753 includes only the shore line and adjacent details. Interior details will be available from the revised map of Washington and vicinity by the U.S.G.S., the field work for which is now in progress.

CONTROL

Triangulation:	U.S.C. & G.S.	1863-1935
	U.S.E.	1924-1939
	W.S.S.D.	1935
	P.B. & P.P.	1930-1934

Recoverable stations of less than third-order accuracy: Theodolite three-point fixes by Field Inspection Party.

All horizontal control in the area is shown on the survey with the exception of those stations known to have been lost at the time of the survey. Recovery notes for all Coast and Geodetic Survey stations searched for in the field have been written. Recovery notes have not been written for every station shown, nor was every station searched for in the field. Descriptions for the three-point fix stations are filed as topographic descriptions under T-5753.

FIELD INSPECTION AND INTERPRETATION OF PHOTOGRAPHS

Field inspection of control and detail was made November 1938 to January 1939.

The entire shore line was field inspected by boat in November 1938.

The detail in the interior has not been field inspected. The control in the interior was inspected by truck and

notes for locating the control on the photographs are contained in notebooks Nos. 1 and 4, Potomac River Project, Air Photographic Surveys Files, Washington, D. C.

All notes for interpreting the detail on the photographs have been written directly on the field prints.

MEAN HIGH WATER LINE

The mean high water line is of the date of the June 1938 photographs with the exception of minor changes in piers and shore line structures as noted by the field inspection of November 1938.

PLOT AND DRAFTING

Triangulation control was plentiful and more than adequate for a good plot. However, there was but a single flight line in the northwest and one of the photographs in the line was missing. This made it necessary to enlarge the center portion of a smaller scale photograph for use in strengthening the plot. There still exist in one area a few radial points located by the intersection of only two radial lines, but the plot is strong on all sides of the area.

Detailing was not difficult except along the north shore near Francis Scott Key Bridge. A number of small boat houses and dwellings along the shore in this area are obscured by trees and on the photographs and are not shown on T-5753.

BRIDGES

Clearances were not obtained on the chain bridge which has been rebuilt since the 1935 Engineer's bridge list was published.

INFORMATION FROM OTHER SOURCES

The field inspection was for the dual purpose of interpreting the photographs and surveying by ground methods changes since the date they were taken. The detail of T-5753 is derived directly from the photographs and is of the date of the June 1938 photographs except as follows:

By Field Inspection, November 1938 -
January 1939

Certain works and structures such as sea walls and small marine railroads which do not appear on the photographs were located with reference to nearby visible detail.

From Supplemental Air Photographs

- (1) Nine-lens photograph No. 4838 taken June 29, 1940, was used to detail the south end of Key Bridge, where extensive structural changes have been completed since 1938.

COMPARISON WITH CONTEMPORARY SURVEYS

There are no contemporary topographic, hydrographic, or graphic control surveys.

COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

T- 910a (1874)	1:15,000
T-1340 (1872)	1: 2,500
T-1714 (1883-5)	1: 4,800
T-1745 (1882-6)	1: 4,800
T-2028 (1891)	1: 4,800
T-2621 (1902)	1:10,000
T-4091 (1924)	1:10,000
T-4109 (1925)	1:10,000

T-5753 supersedes the sections of the above surveys which it covers. *See note on page 5*

CHART 560 (PRINT OF 9-30-40)

Preliminary revision surveys of the U.S.G.S. map of Washington and vicinity are now available for correction of interior details on chart 560. However, since field work by the U.S. Geological Survey is still in progress the latest copies of their surveys should be obtained when a general revision of the topography on chart 560 is made.

If the general revision of topography on chart 560 is delayed for some time after the date of this report, then T-5753 should be again field inspected to bring up to date the construction changes now in progress.

COMPARISON WITH COAST PILOT

The Atlantic Coast Pilot, Section C, 1930, with supplements to February 1937, covers the Potomac only as far upstream as the Georgetown wharves. There are no discrepancies between the Coast Pilot and the present survey within the common area.

LANDMARKS

Recommended landmarks for chart 560, as determined by field inspection, have been submitted to the Nautical Chart Section on Form 567. 2/27/41

Combined report and review by C. W. Lewin

Inspected by *B.G. Jones* B. G. Jones, February 1941 *

Examined and approved:

K.T. Adams
Division of Photogrammetry 3/49
Chief, ~~Section of Field Records~~

H. Edmonson
Nautical Chart Branch
Chief, ~~Division of Charts~~

~~Chief, Section of Topography~~

G.K. Green
Chief, Division of Coastal Surveys

* Shoreline survey T-5753 was compiled in 1940 and has been available for chart correction since that date but because of the press of more important work it was not registered in the vault until 1949
B.G. Jones 3/49

T-5753 is ^{now} superseded by T-8600* to T-8602* inclusive, Project Ph-12(26)

* 1,4800; 1946