

5761

5761

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic Air Photo
~~Hydrographic~~ Sheet No. T-5761

State Maryland-Virginia

LOCALITY

Potomac River

Indian Head and Vicinity

Photographs taken July, 1937
and June, 1938
1938

CHIEF OF PARTY

T.M. Price Jr., Field Records Section

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T-5761

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. _____

T5761

REGISTER NO. T-5761

State MARYLAND - VIRGINIA

General locality POTOMAC RIVER

Locality INDIAN HEAD AND VICINITY

Scale 1:10,000 Photos July 8, 1937
Date of ~~survey~~ June 29, 1938 192

~~XXXXX~~
Vessel _____

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

Surveyed by _____

Inked by _____

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated _____, 192

Remarks: Compiled on scale of 1:10,000. Scale

factor 1.00 Refer to next page for additional data.

DATA RECORD T-5761

PHOTOGRAPHS

<u>Nos.</u>	<u>Type</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Altitude</u>	<u>Tide</u>
1732-36	9-Lens	July 8, 1937	4:00 P.M.	1:10,000	6,900	Low
2079-82	"	June 29, 1938	12:05 P.M.	"		"
2099, 2100	"	June 29, 1938	12:40 P.M.	"		"

1716
2507

Camera: U.S.C. & G.S. nine lens, F=8-1/4 inches

Negatives on file in Washington Office: Mean range from tables 2.2 feet
Stage of tide from field examination of photographs. Spring range from
tables 2.5 feet.

SUPPLEMENTAL SURVEYS

Field Inspection by - T. M. Price, Jr., Nov.-Jan., 1938

The details on T-5761 are of the date of the photographs, except for
items discussed in detail in the following report on pages 254

Chief of Party - T. M. Price, Jr., Section of Field Records

Projection by - Ruling Machine - December 21, 1938

Scale Factor - 1:00 (1:10,000)

Control Plotted - J. W. Giberman - December 22, 1938

Control Checked - L. A. McGann - December 22, 23, 1938

Radial Plot - L. C. Lande and J. W. Giberman - January 3, 14, 1939
and H. D. Reed, Jr., Jan.-Apr., 1939.

Compiled by - H. D. Reed, Jr., - Jan.-Apr. 1939

Smooth Drafted by - *Philadelphia office*

Reference Station: Indian, 1928. Datum N.A. 1927

Latitude - 38°36' 23.574" (726.9 meters)
Long. - 77°10' 02.043" (49.4 meters) Adjusted

State Plane Coordinate System

Maryland

x = 752,209.5

y = 281,629.4

Virginia (North)

x = 2,380,847

y = 345,032

DESCRIPTIVE REPORT AND REVIEW FOR AIR PHOTOGRAPHIC SURVEY T-5761

GENERAL INFORMATION

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

The map drawing was compiled by standard radial plot method using 9-lens photographs without templates.

The drafting was done roughly on celluloid. The smooth drafting was then done on a blue line copy on bristol board.

General information about the project as a whole is contained in the Season's Report.

CONTROL

Triangulation: U.S.C. & G.S., 1902 to 1934
Recoverable stations of less than 3rd order accuracy: Several aids to navigation, C. & G.S. bench marks located by radial plot.

The following station was not searched for in the field and although shown on the sheet, its existence at the present time is not known: Sycamore 1904. For all other stations, recovery notes have been written.

FIELD INSPECTION AND INTERPRETATION OF PHOTOGRAPHS

Field inspection of control and detail was made Nov. 1938 to Jan. 1939.

The following shoreline was covered by boat.

Maryland: Pomonkey Creek and north, including Craney I.
Virginia: Sycamore Point and north

The rest of the shoreline was visited at intervals from the truck.

The interior was inspected by traveling over a net-work of roads throughout the area. Only isolated areas of small extent, off the main travelled roads, were not inspected.

Notes for locating the control on the photographs are contained in note-books 1, 2, and 3, Potomac River Project, Air Photographic Survey Files, Washington Office.

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

Discussion of streams through woods, contours, piles, houses and fences, for which this survey is not complete, is contained in subsequent paragraphs.

MEAN HIGH WATER LINE

The mean high water line is of the date of the photographs listed on the data sheet of this report with the following exceptions:

- (1) Pomonkey Creek Shoreline from photographs taken April 23, 1939. The tide was almost high when these photographs were taken.
- (2) General. There is no difficulty in interpreting the position of the M.H.W.L. except in the marsh areas. Elsewhere the M.H.W.L. is at the line of brush, grass and trees or 1 to 4 meters outside, as noted at frequent intervals on field prints.

In marsh areas such as at Mattawoman Creek, Pomonkey Creek, and North of Sycamore Point, and wherever the light line has been used, the M.H.W. is indefinite in nature and the light line given on the drawing indicates an approximate M.H.W. line or a more or less solid line of vegetation. The amount of grass growing in the creeks varies a great deal with the season. Only the permanent marsh areas have been indicated with the marsh grass symbol on the drawing. In regard to interpreting the M.H.W. from the photos, it should be borne in mind that except for the supplemental April 23, 1939, photographs, the pictures were taken at low water.

PLOT AND DRAFTING

The standard method of radial plot without templates was used. Control was sufficient for a good plot, but the photographs were inadequate to obtain a strong plot along the east border of the sheet. Photo No. 1733 was too badly tilted to use.

A strip about 1 mile wide extending along the east tracing border of the sheet contains a number of slim 2-cut points, some of which were drawn from the outer edges of the photographs. This area is therefore subject to more error than the rest of the sheet, which is up to the standard accuracy of the project. The area in question was included in order to obtain an important through highway which parallels the river; without this area the sheet would have been very thin for inshore detail on the Maryland side.

After the rough drafting of the sheet had been largely completed, a supplemental 9-lens photo was taken over Pomonkey Creek. This has been used to strengthen and check former locations and to add detail along the east border.

A statement of accuracy is given in a later paragraph.

The hilly nature of the terrain coupled with the small overlap afforded by the useable photographs, made tracing difficult especially along the east border of the sheet.

Except as noted in the map title, none but standard symbols were used in the drafting.

BRIDGES

There are no bridges over navigable waters on this sheet.

INFORMATION FROM OTHER SOURCES

The field inspection was for the dual purpose of interpreting the photos, and of surveying by ground methods changes since the date they were taken. The detail of T-5761 is derived directly from the photographs and is of the date of the photographs except for the following:

From Supplemental Air Photographs

- (1) Nine lens photo No. 3561, taken April 23, 1939, 1:10,000 scale.

This photograph has been used for the M.H.W. line of Pomonkey Creek and for the addition of any general detail, particularly in the N.E. and East portions of the sheet that could not be drawn from or did not exist on the regular set of photographs. Most important information obtained, besides the M.H.W. at Pomonkey Creek was the new first class highway which parallels the river about 1 mile east of Chapman Point.

- (2) Single lens, 9" x 9", photos belonging to the Agricultural Adjustment Administration, taken June 22, 1937 and July 28, 1937 on 1:20,000 scale and enlarged to 1:10,000. These photographs were used to assist the drafting and interpretation of houses, roads, and other general detail east of Long. 77°08' (except the S.E. corner of the sheet).

By Field Inspection, November, 1938 - January, 1939

Certain piles, piers and aids to navigation which could not be seen on the photos were located by sextant angles or by estimated reference to nearby detail visible on the photos. The new highway, mentioned in the preceding paragraph, was noted on the field photos during the inspection, but was drawn from the 1939 photograph.

COMPARISON WITH CONTEMPORARY SURVEYS

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

COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

T-865 (1862) 1:20,000
 T-866 (1862) 1:20,000
 T-875 (1862) 1:20,000

Except for contours, property lines, and objects submerged at M.H.W., the present survey is adequate to supersede the above previous surveys for the common area.

T-2596 (1902) 1:4,800
 T-2605 (1902) 1:10,000
 T-2646 (1903) 1:10,000
 T-2700 (1904) 1:20,000
 T-2701 (1905) 1:20,000

The present survey is adequate to supersede the above surveys within the common area except for:

(1) Contours (2) certain fence and property lines (3) certain former roads, now trails of minor importance (4) certain streams and intermittent streams (5) certain piles and certain wrecks which may now be submerged at M.H.W. (6) A group of piles above M.H.W. located about 1/3 mile upstream from the Indian Head upper wharf, was observed in the field but not located and therefore does not appear on T-5761. In other cases where the previous surveys show piles or piers that are not on the present survey sunken piles may still exist, and sunken piles should be carried forward at these places until disproved by hydrographic surveys.

COMPARISON WITH EXISTING MAPS OF OTHER ORGANIZATIONS

U. S. Engineer Tactical Map, Ft. Humphreys and vic., 1:62,500 (1924)
U. S. G. S., Indian Head Quadrangle, 1:62,500 (1925)

The present survey is adequate to supersede the above surveys for the common area except for contours and certain minor streams.

COMPARISON WITH CHARTS

Chart No. 560 (1:40,000 scale) printing, June 3, 1938.

- (1) In the numerous road differences, the present survey should be accepted.
- (2) Although the present survey is not entirely complete for buildings, it should be accepted to supersede previous surveys in this respect. The same holds true with regard to property and fence lines.
- (3) Various small streams shown on the chart are not on the present survey because they are hidden by vegetation, but

these are of minor importance for charting.

- (4) Where piers occur on the present chart, but do not appear on the present survey, it would be safest to carry forward submerged piles.
- (5) The piles above M.H.W. located about 1/3 mile upstream from the upper Indian Head Wharf, were not shown on the present survey because they were not accurately located. They are known to exist however and should be carried forward.
- (6) The existence of the piles shown at Sycamore Point on the present chart was not ascertained in the field, and they cannot be seen on the photographs. They are not disproved however and should be carried forward.
- (7) The following lights and landmarks are incorrectly plotted on the present chart. The difference with T-5761 is indicated; T-5761 is accepted as correct:

Hallowing Point Light: 70 meters
Glymont Light: 30 meters
Indian Head, taller stack: 45 meters

COMPARISON WITH COAST PILOT

P. 172, Mattawoman Creek and P. 173 Indianhead

The headlands at the bend of the river is called Indian Head, whereas the village is named Indianhead, according to the approved geographic name list.

*sent 608
9/1/42*

The town Indianhead should be mentioned as having several stores, postoffice, small hotel. It is the largest village close to the main river between Alexandria and Quantico (Occoquan is 5 miles away from the Potomac River channel)

P. 173 Glymont

No longer a steamer landing and only piles remain of the former wharf. This place should not be mentioned as it no longer has any importance.

P. 174

Pamunkey Creek, now spelled Pomonkey.

X ← This report is the only notification made by this party to the Coast Pilot Section in regard to these corrections.

MILITARY RESERVATION and DELETION OF CONFIDENTIAL DETAILS

The area in the vicinity of Indianhead, and on Cornwallis Neck S.W. of Indianhead, is a government reservation under the supervision of the Naval Powder Factory at Indianhead. That portion extending S.W. from a line about 1/2 mile S.W. of the village of Indianhead is closed to the public. In this closed portion, the only thing that seems to be of military significance at the present time is the powder factory and powder storage facilities. These latter details have not been drafted on this map. Also, the map before publication will be submitted to the Hydrographic Office of the Navy, so that any other details which they do not wish shown can be deleted.

See letter dated Jan 7, 1941 from the Hydrographic office, attached ~~to end of~~ this report.

80-LET

October 25, 1940.

To: Hydrographic Office,
Navy Department,
Washington, D. C.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Topographic map T-5761.

There is being forwarded to you, under separate cover,
one proof copy of map T-5761, in the vicinity of Indian
Head on the Potomac River.

This map was recently compiled by this Bureau from
aerial photographs.

Please advise this office as to whether any of the
details shown in the Naval Reservation at Indian Head
are of military importance and should be removed from
the map before publication.

(Signed) PAUL C. WHITNEY
Acting Director.

only file copy printed.
~~that printed and completed 12/27/40 as~~
~~never received reply from Navy Dept.~~

4830

IN REPLY ADDRESS NOT THE SIGNER
OF THIS LETTER, BUT

HYDROGRAPHIC OFFICE
NAVY DEPARTMENT
WASHINGTON, D. C.



REFER TO NO.
A10-1 (Chts) (254678)
Nav-12-PRJ

HYDROGRAPHIC OFFICE

WASHINGTON, D. C.

January 7, 1941.

From: The Hydrographer.
To: The Director, U.S. Coast and Geodetic Survey.

Subject: Topographic Map T-5761.

Reference: (a) U.S.C.&G.S. ltr. 80-LEF dated October
25, 1940.

Enclosure: (A) Topographic Map T-5761.

1. In accordance with reference (a), it is requested
that the words "Water Intake" be deleted from Topographic Map
T-5761.

G. S. Bryan
G. S. Bryan.

1/9/41
*Sales stock of above map has not yet been printed.
Words removed from printing plate and negative.
Removed by erasure from file copy.*

4830

80-DRM

January 11, 1941

To: Hydrographic Office,
Navy Department,
Washington, D. C.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Topographic map T-5761.

Receipt is acknowledged of your letter of January 7, 1941
(No. A10-1(Chts)(254678)) and the proof copy of topogra-
phic map No. T-5761 which you returned to this office.
The words "Water Intake" will be deleted from the map.

Acting Director.

LANDMARKSLights and Beacons

	Lat.	Long.
(1) Indian Head Lower Pier, Fog Signal (bell) located by radial plot	38-36 (161 m)	77-10 (1352 m)
(2) Glymont Light located by sextant angles	38-36 (1238 m)	77-08 (469 m)
(3) Hallowing Point Light located by sextant 3 pt. fix.	38-38 (574 m)	77-07 (1325 m)
(4) AERO (station Indian Head, red airway beacon on tank, 1934)		

Natural Objects

Taller Stack	(Station Indian Head, Taller stack, 1934)
Stack	(Station Indian Head, shorter stack, 1934)
Standpipe	(Station Indian Head, red airway beacon on tank, 1934)

To be Deleted

Nothing

RECOVERABLE H. & T. STATIONS

There are no ^{Topographic} H. & T. Stations described on Form 524 on this drawing. The only recoverable ^{Topographic} H. & T. Stations shown are the aids to navigation numbered 1, 2 and 3, in the paragraph above and several Coast and Geodetic Survey Bench Marks. The method of location of the aids to navigation has been explained in the preceding paragraph. The B.M.s were located by radial plot.

No descriptions are necessary for the aids to navigation. Descriptions for the B.M.s are available from the Division of Geodesy.

Junctions

This survey joins with the following air photographic survey:

T-5758; T-5759; T-5760; T-5762

The junctions will be made as the various smooth drawings are completed.

GEOGRAPHIC NAMES

Geographic names with the sources are attached at the end of this report on Form M 234, both as submitted by the field party and as approved in the office.

ACCURACY

The probable error in the position of well defined detail is 8 m.; for less well defined detail it is 10-12 meters. In the following exceptions to this, the amount of error is indeterminable:

- (1) The course of streams in dense woods. A dashed "un-surveyed drainage" line has been used in cases where doubt was felt about the location of such streams.
- (2) Low water line. This feature has been drawn from its photographic appearance with some field knowledge but without detailed field examination of this feature.
- (3) The new first-class highway which parallels the river about 1 mile in from Chapman Point. This road was traced ~~in~~ for about a mile of its length without radial points because it only showed on one picture.

ADDITIONAL WORK

This survey lacks contours. It shows part of but not all of the houses and minor streams; it has indicated only those piles above M.H.W.

Except for (1) piles or other dangers awash or below M.H.W., (2) the piles above M.H.W. located 1/3 miles upstream from the upper wharf at Indian Head and (3) the piles of unknown height that may still exist at Sycamore Point, The present survey is complete and adequate for chart compilation.

Combined Report and Review by T. M. Price, Jr., Section of Field Records, June 15, 1939

Inspected by: B. G. Jones 9/5/40
B. G. Jones

Examined and approved:

T. B. Reed
T. B. Reed,
Chief, Section and Field Records

Raymond R. Gynan
Chief, Section of Field Work

J. Borden
Chief, Division of Charts

Glade
Chief, Division of H. & T.

T5761

Remarks

Decisions

1		385771
2		385771
3	Name of headland	386771
4	Name of P.O. and town	385771
5		386771
6		386771
7		386771 U S G B
8		386771
9		386771
10		386771
11		386771
12		386771 U S G B
13		386771 U.S.G.B
14		
15		385772
16		386771
17	Name of P.O. and town. In P.O. Guide L.H. P.	386770 U S G B
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T5761

Name on Survey	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A,	B,	C,	D	E	F	G	H	K	
<u>Nelson Point</u>									1
<u>Mason Springs</u>									2
<u>Indian Head</u>									3
<u>Indianhead</u>									4
<u>Glymont</u>									5
<u>Chapman Pt.</u>									6
<u>Pomonkey Creek</u>									7
<u>Fenwick</u>									8
<u>Mason Neck</u>									9
<u>Hallowing Pt.</u>									10
<u>Sycamore Pt.</u>									11
<u>Craney I.</u>									12
<u>Kane Cr.</u> ^S - on T 5729									13
<u>Potomac River</u>									14
<u>Mattawoman Creek</u>									15
<u>Pomonkey Pt.</u> - USRB decision (not Hollis Pt.)									16
<u>Pomonkey</u>									17
									18
									19
									20
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									22
									23
									24
									25
									26
									27

Names underlined in red approved

by L. Heck on 4/21/39