

8060

Diag'd. on Diag. Ch. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic (Shoreline)

Field No. CS-283 Office No. T-8060

LOCALITY

State Virginia

General locality James River

Locality Blunt Point - Marshy Point

1941-'42

CHIEF OF PARTY

L.W. Swanson

LIBRARY & ARCHIVES

DATE

DATA RECORD

T-8060

Quadrangle (II):

Yorktown, Va. (U.S.G.S.)

Project No. (II):

CS-283

Field Office:

Chief of Party:

Air Photographic Party No. 2

Baltimore, Maryland

L. W. Swanson
Chief of Party:

Compilation Office:

Air Photographic Party No. 2

Baltimore, Maryland

Fred. L. Peacock

Div. of Photogrammetry
Office Files

Instructions dated (II III):

Copy filed in Descriptive

March 26, July 15;)

Report No. T-

(VI)

Sept. 30, Nov. 14;)

Completed survey received in office: 5-6-43

Reported to Nautical Chart Section: May 1943

Reviewed: 11-12-48 Applied to chart No. 529 Date: Nov 1943

Redrafting Completed: 10-14-49

Registered: 12-8-49

Published:

Compilation Scale: 1:10,170

Published Scale:

Scale Factor (III): 0.983284

Geographic Datum (III): N.A. 1927

Datum Plane (III): MHW
~~Mean Sea Level~~Reference Station (III): Jack ^{VFC} (V.C.F.), 1937, r.1942

Lat.: 37° 05' 29.918" 922.3m

Long.: 76° 33' 20.554" 507.6m

Adjusted

~~Horizontal~~

State Plane Coordinates (VI): Virginia South Zone

X = 2,567,063.13' Y = 281,924.75'

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
7743 to 7746 inc.	11/26/41	11:00a.m.	1:10,000	0.3' above M. L. W.
7790	11/26/41	12:13p.m.	1:10,000	0.9' above M. L. W.
7827 to 7830 inc.	11/26/41	1:04p.m.	1:10,000	1.1' above M. L. W.

Tide from (III): Hampton Roads Naval Base with time correction to Warwick River, Virginia

Mean Range: 2.5' Spring Range: 2.9'

Camera: (Kind or source) U. S. Coast & Geodetic Survey Nine lens (Focal length $8\frac{1}{4}$ ") All negatives are on file in the Washington Office.

Field Inspection by: Lieut. E. B. Lewey date: Summer & Fall, 1942

Field Edit by: None date:

Date of Mean High-Water Line Location (III):

November 26, 1941

Projection and Grids ruled by (III) Washington Office date: 12/11/42

" " " checked by: Washington Office C.H.R. date: 12/11/42

Control plotted by: Albert S. Posner C.H.R. date: 12/18/42

Control checked by: Louise C. Painter date: 12/21/42

Radial Plot by: Walter E. Schmidt date: 12/28/42 to 12/29/42

Detailed by: Roger W. Stoy (Shoreline - rough draft) date: 12/30/42 to 2/9/43
Revised by: Michael G. Misulia

Reviewed in compilation office by: Michael G. Misulia date: 3/8-17/43 4/23-30/43

Elevations on ^{Manuscript} Field Edit Sheet
checked by: None

date:

STATISTICS (III)

Land Area (Sq Statute Miles): None

Shoreline (More than 200 meters to opposite shore): 19.6 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 13.0 Statute Miles

Number of Recoverable Topographic Stations established: 7

Number of Temporary Hydrographic Stations located by radial plot:

~~45~~ 37

Leveling (to control contours) - miles:

none

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

Summary to Accompany T 8060

T 8060, scale 1: 10,000, is one of 40 shoreline surveys in Project CS-283 along the James River, Virginia.

Project CS-283 was originally planned as a planimetric mapping project but was limited to shoreline surveys only after War Mapping Project CS-289, covering practically all the James River, was undertaken.

Topographic Quadrangle T 8312 (Project CS-289) completely covers T 8060. The former was compiled in 1944 from 1:20,000 scale photographs taken in 1942 in contrast with T 8060, compiled in 1942-3 from 1:10,000 scale photographs taken in 1941.

Field Inspection

Field inspection data for the area of T 8060 are contained in the "Report on Field Inspection of Air Photographs, James River, Newport News to Hopewell, Virginia" by Ernest B. Lewey, dated October 12, 1942. Filed in Division of Photogrammetry, General Files.

COMPILATION REPORT

26 CONTROL:

The control indicated on this map drawing by the usual triangulation symbol consists of three U. S. E. triangulation stations, nine U. S. C. & G. S. triangulation stations, twelve V. F. C. triangulation stations and seven U. S. G. S. primary traverse stations. Field inspection stations were substituted for three of these basic control stations.

The stations indicated by a black acid ink triangle have been plotted. Those indicated by a red acid ink triangle have been transferred from map drawings immediately adjoining. The field inspection stations have been indicated by a small square outlined in purple ink on the glossy side of this map drawing.

The following control stations are within the detail limits of this map drawing:

Four U. S. C. & G. S. triangulation stations:

Tower, south of Marshy Point, flagpole, 1938, r.1942 .
Warwick River Tower, flagpole, 1938, r.1942 .
~~House, south of Blunt Point, chimney, 1938, r.1942~~ T 8061
Curtis Point Tower, Flagpole, 1938, r.1942 .

Three U. S. E. Triangulation Stations:

Mulberry, 1930, r.1938, r.1942 .
Jail, 1930, r.1942 .
Snell, 1938, r.1942 .

Twelve V. F. C. Triangulation Stations:

Yank, 1937, r.1942 (F.I.S. "Pine") .
Jail, 1938, r.1942 .
Jordan, 1937, r.1942 .
Camp, 1937, r.1942 .
Lands End, 1937, r.1942 .
Patch, 1937, r.1942 .
Holloway, 1937, r.1942 .
Jack, 1937, r.1942 .
Maddox, 1937, r.1942 (F.I.S. "Gab") .
Eustis, 1937, r.1942 .
Llewellyn, 1938, r.1942 .
Bunker Hill, 1937, r.1942 .

Four U. S. G. S. primary traverse stations

P. T. S. 14, 1918 .
P. T. S. 21, 1918 .
P. T. S. 20P, 1918, r.1942 .
P. T. S. 21P, 1918, r.1942 .

26 CONTROL: (cont'd)

The following control stations fall just outside the detail limits of this map drawing:

Five U. S. C. & G. S. Triangulation Stations:

Denbigh, 1932, r.1942
Crawford, 1869, r.1932, r.1942
Eustis, 1938, r.1942
Tower, near triangulation station Crawford, Flagpole, 1938, r.1942
Ulber, 1938, r.1942 (F.I.S. "Hul")

Three U. S. G. S. Primary Traverse Stations:

P. T. S. 26P, 1918, r.1942
P. T. S. 23P, 1918, r.1942
P. T. S. 11, 1918

27 RADIAL PLOT:

An individual plot was laid for this map drawing by the usual radial method. No templates were used.

Principal points were established by resection of the photographs under the map drawing. Secondary points were established by radial intersection.

Large purple ink circles indicate positions of the principle points. Small double purple ink circles indicate positions of secondary points relatively strong with respect to the basic control. Small double green ink circles indicate positions of secondary points relatively weak with respect to the basic control. Red ink circles indicate points common to map drawings Nos. T-8060 and T-8056. Radials drawn in purple ink on the glossy side of this map drawing at the control stations clearly indicate how they held in the plot.

The control density was adequate.

The number of photographs was adequate.

The closure and adjustment was negligible.

The control identification was adequate.

When the plot was laid, no exceptional difficulties were encountered.

28 DETAILING:

The shoreline and immediate adjacent culture has been detailed on this map drawing in accordance with the Director's letters dated March 26, 1942, July 15, 1942, September 30, 1942 and November 14, 1942, pertaining to this Project CS-283. Filed in Div. of Photogrammetry - Office Files

28 DETAILING: (cont'd)

The following excerpt is from the Director's letter dated July 15, 1942:

"Because of the new 20,000 scale mapping that will now cover the entire area from Richmond to the mouth of the James River, this Bureau will not compile, nor publish complete planimetric maps of the area. Only the shoreline and signals for the control of hydrographic surveys will be compiled on a scale of 1:10,000 and copies of your original drawings, without being smooth drafted will be registered and used on the hydrographic smooth sheet."

The scales of the photographs and this map drawing were in fair agreement.

Positions of minor detail points, recoverable topographic stations, hydrographic stations, landmarks, and non-floating aids to navigation were determined by radial intersection, except those previously established by triangulation.

All detail indicated on this map drawing has been shown by the standard symbols recommended by the Washington Office and any deviation therefrom has been properly noted.

In a number of instances, hydrographic stations recommended by the field inspection party and picked on the field photographs could not be identified 100% on a sufficient number of office photographs in order to establish relatively strong positions of the stations. Positions of these stations were indicated by a green ink circle on the glossy side of this map drawing and a $1\frac{1}{2}$ mm black acid ink circle on the dull side.

Deep shadows, relief and density of the wooded areas were a source of frequent trouble when attempting to identify image points.

30 MEAN HIGH WATER LINE:

The mean high water line (firm ground) has been indicated by a solid heavy-weight black acid ink line, the center of which should be taken as the true position. A solid light-weight black acid ink line (marsh area) indicates the limits of navigation and not necessarily the mean high water line. Notes have been indicated on the overlay sheet, calling attention to important features.

31 LOW WATER AND SHOAL LINES:

Approximate limits of ^{shallow} ~~shoal~~ and ~~foul~~ areas have been shown by a light-weight dashed black acid ink line. The notation "~~Shoal~~" or "foul" has been indicated on the overlay sheet. ^{shallow}

32 DETAILS OFFSHORE FROM HIGH WATER LINE:

Approximate limits of piling areas have been shown with a dashed light-weight black acid ink line, with appropriate notes on the overlay sheet. For a discussion of a piling area not shown on the Map Drawing see side heading No.45.

33 WHARVES AND SHORELINE STRUCTURES:

All wharves and shoreline structures have been shown and appropriate notes have been made on the overlay sheet wherever it seemed necessary for clarity.

34 LANDMARKS & AIDS TO NAVIGATION:

See Chart Letter 917(49) Copy enclosed

The following landmarks and non-floating aids to navigation have been indicated on this map drawing in accordance with standard practice and their positions have been submitted on Form No. 567:

Chart Letter 285(43)

Three

Four Landmarks:

- Tower, flagpole, Curtis Point (Triangulation Station)
- Tower, flagpole, South of Marshy Point (Triangulation Station)
- Tower, flagpole, Warwick River (Triangulation Station)
- ~~Chimney, house, South of Blunt Point (Triangulation Station) T 8061~~

Four non-floating aids to Navigation:

- Beacon 6, Deep Creek, red (No. 1598.5)
- Beacon 2, Deep Creek, red (No. 1598.3)
- Beacon 7, front range, Deep Creek (No. 1598.6)
- Beacon 7, rear range, Deep Creek (No. 1598.7)

See copy of Chart Letter 285 for correct names of these stations. Part of this report.

35 HYDROGRAPHIC CONTROL:

The positions of ^{thirty-seven} ~~forty-five~~ temporary hydrographic stations and nine recoverable topographic stations have been shown on this map drawing in accordance with standard practice. Descriptions of both classes of stations appear on either this map drawing or the accompanying overlay sheet. Descriptions and positions of the recoverable topographic stations have been submitted on form No. 524.

Seven

The ~~nine~~ recoverable topographic stations are as follows:

- ~~Lookout House, center of, on bluff T 8061~~
- ~~Pine, outer, blaze on, on marshy point, 1942~~
- ~~Tank, horizontal, S.W. end, roof of building on piles, 1942~~
- Beacon 6, Deep Creek, red (No. 1598.5)
- Beacon 2, Deep Creek, red (No. 1598.3)
- Sign, on point, inner end of old piling, 1942
- Beacon 7, front range, Deep Creek (No. 1598.6)
- Beacon 7, rear range, Deep Creek (No. 1598.7)
- ~~No. 41 - Center of brown house on piling, green roof T 8061~~

See copy of Chart Letter 285(43) for correct names.

37 JUNCTIONS: All junctions checked during review.

Map Drawing No. T-8059 - North Side- Junction in agreement.

Map Drawing No. T-8069 - West Side - Junction in agreement.

Map Drawing No. T-8061 - South Side- Junction in agreement.

Map Drawing No. T-8056 - East Side (extended limits)-Junction in agreement.

Map Drawing No. T-8057 - East side - No junction possible at this date.

38 CABLE CROSSING AREAS:

The cable crossing area in the vicinity of Warwick River, has been shown on the glossy side of this map drawing with a dashed red acid ink line. The outline of the area was traced from Chart No. 529 and should be considered approximate. See Review Report.

39 RECOMMENDATION FOR FUTURE SURVEYS:

This map drawing is believed to be complete in all details of importance for charting and no additional surveys are required.

It is believed that the probable error of radial points and well-defined objects along the shoreline is not greater than 0.5 mm. The error of inland radial points and details of importance is not greater than 1.0mm.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Yorktown, Virginia; Quadrangle, U. S. G. S., dated 1932, scale 1:62,500.

Small discrepancies would not be apparent due to large scale difference. However, at approximately Latitude $37^{\circ} 04' 20''$ and Longitude $76^{\circ} 33' 40''$ Jail Island as shown on the above mentioned quadrangle could not be identified on the office photographs and was therefore not shown on this map drawing.

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 529 -- Published Sept, 1940, issued March 25, 1942; scale of 1:40,000.

Due to scale difference, planimetry could not be satisfactorily compared in full detail. However, at approximately Latitude $37^{\circ} 04' 20''$ and Longitude $76^{\circ} 33' 40''$ Jail Island as shown on the above mentioned chart could not be identified on the office photographs and was therefore not detailed upon this map drawing. Also, within the western extended limits of the Map Drawing at approximately latitude $37^{\circ} 07.1'$ and longitude $76^{\circ} 37.9'$ piling appearing on the chart has not been shown on the Map Drawing, because no Field Inspection Data were furnished, and because the images of such features were not visible on any of the photographs. It is recommended that the operating hydrographic party verify the existence and charted positions of such features.

Compilation & Descriptive
Report Reviewed and Re-
vised by Michael G. Misulia,
Junior Topographic Engineer

Compilation & Descriptive
Report Supervised by,

Walter E. Schmidt
Walter E. Schmidt
Asst. Photogrammetric Eng.

Approved & Forwarded,
May 4, 1943

Fred. L. Peacock
Fred. L. Peacock, Chief
Air Photographic Party No. 2

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Washington Office

April 1943

I recommend that the following objects which have ~~(xxxxxx)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

Fred L. Peacock

Chief of Party.

STATE	JAMES RIVER, VIRGINIA		SIGNAL NAME	POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED		
				LATITUDE		LONGITUDE										
				° ' "	D. M. METERS	° ' "	D. P. METERS	DATUM								
CHARTING NAME	DESCRIPTION			37	03	483.6	76	30	782.8	N. A.	1927	Tri.	1938	X		529
	House South of Blunt Pt., Chimney			37	04	1584.7	76	33	171.4	N. A.	1927	Tri.	1938	X		529
	Tower, Flaggpole, Curtis Point.			37	06	1306.1	76	34	200.4	N. A.	1927	Tri.	1938	X		529
	Tower, Flaggpole, Warwick River			37	06	1429.0	76	36	145.1	N. A.	1927	Tri.	1938	X		529
	Tower, Flaggpole, S. of Marshy Pt.			37	04	1765.2	76	31	717.3	N. A.	1927	Radial Plot Tri.	1942 1938	X		529
	Deep Creek Range Front Light 7			37	05	15.3	76	31	610.4	N. A.	1927	Radial Plot Tri.	1942 1938	X		529
	Deep Creek Range Rear Light 7			37	04	1661.0	76	31	806.1	N. A.	1927	Radial Plot Tri.	1942 1938	X		529
	Deep Creek Light 6			37	04	760.3	76	32	270.1	N. A.	1927	Radial Plot Tri.	1942 1938	X		529
	Deep Creek Light 2															
				Copy of Chart Letter 285(43)												
				Superseded by Chart Letter 917(49)												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

TO BE CHARTED
TO BE DELETED

Washington Office

November 8 1945

The positions given have been checked after listing by C. Theurer

C. Theurer

S. V. Griffith

Chief of Party.

[illegible]

Chart Letter 917 (49)

TO BE CHARTED

STRIKE OUT ONE

~~TO BE DELETED~~

~~NONFLOATING AIDS OR LANDMARKS FOR CHARTS~~

COPIES DESTROYED
I recommend that the following objects which have ~~(been on)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

by
C. Thomsen

C. Theurer

[illegible]

This form shall be returned in accordance with Hydrographic Manual page 800.

MAP DRAWING FOR SURVEY NO. T-8060

ADDITIONAL

WORK

1944

Additional Work

DATA RECORD

T- 8060

Form T-1

Quadrangle (II): Yorktown, Va. (U.S.G.S.)

Project No. (II): C.S.283

Field Office:

Air Photographic Party No. 2
Baltimore, Md.

Chief of Party: Fred. L. Peacock

Compilation Office:

Air Photographic Party No. 2
Baltimore, Md.

Chief of Party: Fred. L. Peacock

Instructions dated (II III):

March 26, July 15,) 1942
Sept. 30, Nov. 14,)Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed:

Applied to chart No.

Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:10,170

Published Scale:

Scale Factor (III): 0.983284

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): JACK (V.C.F.) 1937, r.1942

Lat.: 37° 05' 29.918" (922.3m) Long.: 76° 33' 20.554" (507.6m); Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7743 to 7747 Inc.	11/26/41	11:00 A.M.	1:10,000	0.3' above M.L.W.
7790	11/26/41	12:13 P.M.	1:10,000	0.9' above M.L.W.
7827 to 7830 Inc.	11/26/41	1:04 P.M.	1:10,000	1.1' above M.L.W.

Tide from (III); Hampton Roads Naval Base with time correction to
Warwick River, Virginia

Mean Range: 2.5'

Spring Range: 3.0'

Camera: (Kind or source) U.S. Coast & Geodetic Survey nine lens
(focal length 8 $\frac{1}{4}$ ") All negatives are on file in the Washington Office

Field Inspection by: (Additional) Lt. Dale E. Sturmer date: March 1944

Field Edit by:

date:

Date of Mean High-Water Line Location (III): November 26, 1941

Projection and Grids ruled by (III)

date:

" " " checked by:

date:

Control plotted by:

date:

Control checked by:

date:

Radial Plot by:

date:

Detailed by: (Additional) James L. Harris

date: 6/5/44

Reviewed in compilation office by: (Additional)
J. Edward Deal, Jr.

date: 6/5/44

Elevations on Field Edit Sheet
checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles);

Shoreline (More than 200 meters to opposite shore);

Shoreline (Less than 200 meters to opposite shore);

Number of ^{additional} Recoverable Topographic Stations established; 1

Number of ^{additional} Temporary Hydrographic Stations located by radial plot; 84

Leveling (to control contours) - miles;

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname

and initials (not initials only).

Remarks;

Additional Work -- 1944

In accordance with the original instructions for Project C.S. 283 and various supplemental instructions, the field inspection at the lower part of the James River did not at first include complete field inspection of tributary streams. The field inspection of the main river and the mouths of all tributary streams was first completed to Richmond, Va. The completion of the field inspection of tributaries was then carried on from the upper river toward the lower river. The field inspection of tributary streams was completed in the spring of 1944.

In order to assure shore line and hydrographic information in advance of the needs of operating hydrographic parties working in the main river, Map Drawings for the areas of ten surveys were submitted in advance of completion with respect to tributary streams. Survey No. T-8060 is one of these.

The High-Water Line and marsh line (limit of navigation line) and adjacent planimetry of the portion of James River, falling within the limits of the Map Drawing and its tributaries to the head of navigation in the area, was originally compiled between December 1942 and April 1943.

Since that time the Compilation Office has been furnished the identification of one additional recoverable topographic station and eighty-four additional temporary hydrographic stations. These were identified on 1:10,000 field photographs by numbers and their descriptions were listed in Form 274, Vol. 2, by corresponding numbers. These stations were transferred to the 1:10,000 office photographs and radially plotted on the Map Drawing.

The numbers and descriptions of each of the temporary hydrographic stations, which were radially plotted at the time of the original compilation, were shown on the overlay just adjacent to the station with a leader

pointing to the station.

At each of the new additional temporary hydrographic stations, the number only has been shown on the overlay adjacent to the station, with a leader pointing to the station. The descriptions for these new additional temporary hydrographic stations are tabulated on the left hand side of the overlay. List made a part of this report.

Form 524 is being submitted for the one additional recoverable topographic station, namely:

~~SOUTH END, TROM~~ TANK, 1944

Additional data on the small bridge in the vicinity of Lat. $37^{\circ} 07' 07''$, Long. $76^{\circ} 32' 55''$, furnished by the Field Inspection Unit, has been included.

Respectfully submitted:
June 6, 1944

James L. Harris
James L. Harris
Air Photographic Observer

Additional work reviewed
and supervised by:

J. Edward Deal Jr.
J. Edward Deal, Jr.
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 9, 1944

Fred. L. Peacock
Fred. L. Peacock
Chief, Air Photographic Party No. 2

Descriptions of Photo-Hydro Stations
T-8060

No.

- 52 Intersection of metal bulkhead and groin at water line.
- 53 Lone locust tree on top and at edge of bluff in front of house.
- 54 Outer gable of shed on sand beach just offshore from bridge across small stream.
- 57 Chimney on outer gable of white, two story house on bank over marsh, black roof and a screened porch around chimney.
- 58 Chimney near center of old house in trees, two dormers toward river.
- 59 Chimney on southerly gable of large white house on point.
- 61 South gable of Menchville Post Office.
- 63 Top of northerly of two cedar trees just offshore from white house.
- 64 Black stack on white barracks of city farm.
- 65 Elevated water tank on city farm about 50 ft. high.
- 66 Easterly of two chimneys on red, brick house at edge of trees.
- 67 Small cedar at West end of isolated dirt bluff at water's edge.
- 68 Center of clump of small cedars at East end of dirt bluff.
- 69 Cedar at water's edge. Cultivated field to East and woods to West. Bluff ends here.
- 70 Dead pine tree at water's edge.
- 71 Highest of a group of cedar trees in front of marsh. This is the second cedar from the water.
- 72 Outer end of small landing.
- 74 Outer gable of house on pier at Halloway Landing.
- 75 Top of red silo showing over red barn.
- 76 Center of top of large deciduous tree on point.

No.

- 77 South gable of old house.
- 78 Outer end of small landing.
- 111 Blazed pine tree on water line.
- 112 Lone pine on water line at easterly end of a group of pines. Blazed.
- 113 Blaze on offshore side of bushy deciduous tree inshore from largest of four marshy islets. About 50 meters east of a prominent stretch of sand beach.
- 114 Blaze on small, lone pine on marsh point. This tree has an old, triangular blaze on it.
- 116 Lone cedar in marsh to east of a group of scattered pines and just in from a sharp, marshy point.
- 117 Lone pine tree at east end of scrub on narrow, sandy point just south of Curtis point.
- 119 Stake on point of marsh on Northwest side of entrance to small creek. Piece of cloth on stake.
- 120 Two stakes on south side of narrow stream. Stakes about 4 feet above H.W., piece of cloth on one stake.
- 121 Outer end of small landing.
- 122 East gable tin roofed shack at bend in creek.
- 123 Prominent, tall, slender tree on hill.
- 124 Largest and westerly of several stakes at water line. Marked by cloth.
- 125 Stake in marsh on North side of largest stream entering Warwick River in the vicinity. Marked by cloth.
- 126 Outer and higher end of loading ramp on bank.
- 130 Blaze on large pine on dirt bank. The westerly of several large pines on bank.
- 556 SE tip of grass at west end of sand beach about 8 meters long in marsh.
- 557 West tip of grass at beginning of narrow part of Warwick River.

No.

- 558 East tip of grass on island at entrance to narrow part of Warwick River.
- 559 Southeast tip of marsh on point.
- 561 Northeast tip of marsh at very small creek but wide mouth in marsh.
- 562 Southwest tip of marsh at entrance to small creek in marsh.
- 563 Southeast tip of marsh at entrance to small creek in marsh.
- 566 East tip of marsh at entrance to small creek in marsh.
- 567 Base of 35' pine tree, bushy tip, closest to water's edge. 25 meters from south end of piling along beach.
- 608 Northeast tip of grass at entrance to small stream.
- 609 North tip of grass at ditch. Two stakes are at entrance to ditch.
- 610 40' pine tree on east side of small catwalk. (Base)
- 611 Northwest gable of 2 story yellow house with metal roof and brick chimney on both ends. There is a 1-story section on the southeast end of the house.
- 612 Northeast tip of grass at entrance to ditch.
- 613 Lone 25' pine on wooded point. Only one on tip of point. (Base)
- 614 Westerly tip of grass at stream entrance.
- 615 25' cedar on tip of prominent point of woods that runs into marsh. (Base)
- 616 East tip of grass on prominent point.
- 618 Southwest tip of grass at stream entrance at head of cove.
- 620 Taller of 2 pines closest to water's edge on rounding point. Tree is 40' tall. (Base)
- 621 Center of bomb target.
- 622 Southeast tip of grass at entrance to ditch.
- 623 South tip of grass at forks of stream.
- 624 East tip of grass at entrance to small stream.
- 625 Southeast tip of grass at entrance to stream.

No.

- 626 Northeast tip of grass on prominent point.
- 627 Southeast tip of grass at entrance to small stream.
- 628 West tip of grass at forks of stream.
- 629 North tip of grass at entrance to smaller stream.
- 630 South tip of grass at sharp bend in stream.
- 631 Prominent east tip of grass at entrance to stream.
- 632 Northeast tip of grass at entrance to smaller stream.
- 633 North tip of projection of marsh. There is a stake close to tip.
- 634 Center of entrance to ditch.
- 635 Northeast tip of marsh at entrance of branch to westward.
- 636 Southeast tip of grass at entrance to ditch.
- 637 Center of entrance to ditch.
- 638 Southeast tip of grass at entrance to ditch. East of tall pine.
- 639 Northeast tip of grass at entrance to stream.
- 640 Southwest tip of grass at entrance to small stream 50 meters east of pine with hawk's nest on top.
- 641 Northeast tip of grass at stream entrance. The tip of grass is sharp.
- 642 Center of break in marsh line on outside of bend.
- 643 Center of entrance to ditch.
- 644 Northeast tip of grass at stream entrance. 50 meters SE of dead pine on bend.
- 645 West edge of stream at row of piling.
- 646 Northeast tip of grass at small stream entrance.
- 647 Sharp southeast tip of grass on south side of small stream.
- 648 North tip of grass at small stream entrance.
- 649 Northwest tip of grass at small stream entrance.

No.

- 650 North tip of grass at entrance to branch stream.
- 651 Southeast tip of grass at entrance to small stream.
- 652 Southwest tip of grass at forks of stream.
- 653 Southeast tip of grass on south side of bight.
- 654 Southeast tip of grass at entrance to stream.
- 655 Northwest tip of island.
- 656 Northwest tip of grass at entrance to branch stream.
- 657 Southeast tip of grass at entrance to ditch.
- 658 Southwest tip of grass at stream entrance, 50 meters west of pine grove.
- 659 Northeast tip of grass at entrance to small stream.
- 660 South tip of grass at entrance to small stream. Tip is sharp.
- 661 North tip of grass at entrance to stream.
- 662 Southeast tip of grass on West side of small stream entrance.
- 663 Northeast tip of grass at stream entrance on outside of bend.
- 664 Southwest tip of grass at entrance to stream.
- 665 East tip of grass between two stream entrances.
- 666 South tip of grass at stream entrance.
- 667 Northwest tip of grass at entrance to ditch on SE side of forks.
- 668 North corner of end of long L shaped pier on southeast side of Deep Creek.
- 669 Northwest gable 1-story white house, reddish brown roof. Chimneys on Northwest end and Northeast side inclosed half porch with 4 windows on Northwest end. White slat fence around house.
- 671 East end of double line of stakes-remains of old cat walk.
- 672 West gable of old unpainted house. Chimney on East end large oak tree to southwest.
- 673 Northwest tip of grass at entrance to stream on east side.

No.

- 674 North tip of grass at ditch in marsh on east side.
- 675 West tip of forks of stream.
- 676 Southeast tip of grass at entrance to small stream in marsh on West side.
- 677 Northwest tip of grass at entrance to small stream in marsh on North end of dam.
- 679 Edge of marsh at end of fence on west side at North end of dam.
- 680 Northwest tip of grass at entrance to small stream in marsh at north end of dam.
- 681 Northeast tip of grass on prominent point.
- 682 Southwest tip of grass at entrance to stream in marsh.
- 683 Northwest tip of grass at entrance to small stream.
- 684 Northwest tip of grass at entrance to small stream.
- 685 Northwest tip of grass at entrance to small stream on outside of bend.
- 686 Edge of marsh on center of rounding point.

LIST OF GEOGRAPHIC NAMES

Listed below are the undisputed names that pertain to the detail limits of this map drawing:

- ✓ ~~Blunt Point~~ — 8001
- ✓ • Curtis Point -
- ✓ • Deep Creek -
- ✓ • Daysville (~~Village~~) -
Jail Island (not shown on this map drawing)
- ✓ • Jail Point -
- ✓ • Jail Creek -
- ✓ • James River -
- ✓ • Marshy Point -
- ✓ • Menchville (~~Village~~) -
Mill Pond (not shown on this map drawing)
- ✓ • ~~Moheca, (village)~~ Mennonite Colony -
- ✓ • Mulberry Island -
- ✓ • Morrison Creek -
Oyster Point (not shown on this map drawing)
- ✓ • Potash Creek -
- ✓ • Warwick River -

- ✓ • Nells Creek -
- ✓ • Thorofare I. -
- ✓ • Thorofare Pt. -
- ✓ • Swash Hole -
- ✓ • Swash Hole Is. -

Names preceded by •
are approved. 11/12/48
L. Heck

DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscript T-8060

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

26 Control

The triangulation stations, Shell (F), 1909, was added to the map manuscript.

28 Detailing

All notes were transferred from the overlay to the map manuscript.

The area south of Latitude $37^{\circ}03.75'$ will be transferred to T-8061 photographically when blue lines are requested. Done

The outline of the cable area that had been projected from the Nautical Chart was removed from the map manuscript. The field inspector did not indicate a cable area on the photographs.

34 Landmarks and Aids to Navigation

A copy of Chart Letter 285 (43) was prepared and made a part of the descriptive report.

Superseded by Chart Letter 917(49) Copy enclosed.

37 Topographic and Photo-Hydro Stations

Names of topographic stations were changed to a short, descriptive term. The names of the Aids to Navigation were changed to agree with the Light List.

A list of descriptions of photo-hydro stations was prepared and made a part of this report.

38 State Grids

The state grid, Virginia, South Zone, was plotted on the map manuscript at a 5000 foot interval.

40 Geographic Names

Names were added from the approved list submitted by the Geographic Names Section.

43 Comparison with Contemporary Hydrographic Surveys

H-6928	1:10,000	1944-48
H-7025	1:10,000	1945
H-7174	1:10,000	1946

Stakes and fish traps that are shown on the hydrographic survey are not visible on the photographs. No discrepancies were noted between the shoreline on the map manuscript and the positions of the soundings on the hydrographic sheet.

44 Comparison with Existing Surveys

U.S.G.S., Yorktown Quadrangle, 1:62,500, 1907, Reprinted 1944.

T-497	1:20,000	1853	
T-1266	1:20,000	1871-73	
T-3045	1:20,000	1910	
T-7070	Graphic control)	1:10,000	1948
* T-8312	1:20,000	1944	

Common features on all previous surveys are superseded by the map manuscript in common areas *for charting purposes.*

* T-8312 is a more recent survey. Corrections were not brought forward to T-8060

45 Comparison with Nautical Charts

Chart No. 529 1:40,000 1944 Corr. 1947

The house on piles in the Warwick River, N.W. of Menchville, is not shown on the chart.

Logs awash, shown on the chart at Latitude $37^{\circ} 07.3'$, Longitude $76^{\circ} 37.3'$ were not indicated by the field inspector.

51 Application to Nautical Charts

The map manuscript has been applied to the nautical chart.

Reviewed by:

Charles Theurer
Charles Theurer 11-12-48

Approved by:

B. J. Jones 12/49
Tech. Asst. to the Chief,
Division of Photogrammetry

O. S. Reading
Chief, Div. of Photogrammetry

Under the direction of:

A. V. Griffith
Chief, Review Section K.H.M.
Div. of Photogrammetry

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

Wm. Scaife
Chief, Div. of Coastal Surveys *W.S.*