10926 10927

10926 10927

Diag. Cht. No. 77-6.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-5901 *Office No* T-10926 and T-10927

LOCALITY

State Maryland - Virginia

General locality Potomac River

Locality Wakefield & Stratford Hall

1958-59

CHIEF OF PARTY
G.F.Wirth, Photo. Party 723
W.E.Randall, Baltimore Dist. Off.

LIBRARY & ARCHIVES

DATE April 1964

USCOMM-DC 5087

REPRODUCTION LOG

T-- 10926

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation completed	10/27/60	Supersedes all previous copies

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation completed	10/20/60	Supersedes all previous copies.

DATA RECORD

T-10926 and T-10927

Project No. (II): Ph-5901 Quadrangle Name (IV):

Field Office (II): Dahlgren, Virginia Chief of Party: George F. Wirth

Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: William E. Randall

Instructions dated (II) (III): 28 January 1959
15 May 1959
29 June 1959
10 June 1960
13 June 1960

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): STRATFORD, 1954

Lat.: 38° 09' 46.117" (1421.9 m) Long.: 76° 50' 10.62.5" (258.7 m) Adjusted

Plane Coordinates (IV): State: Virginia Zone: North

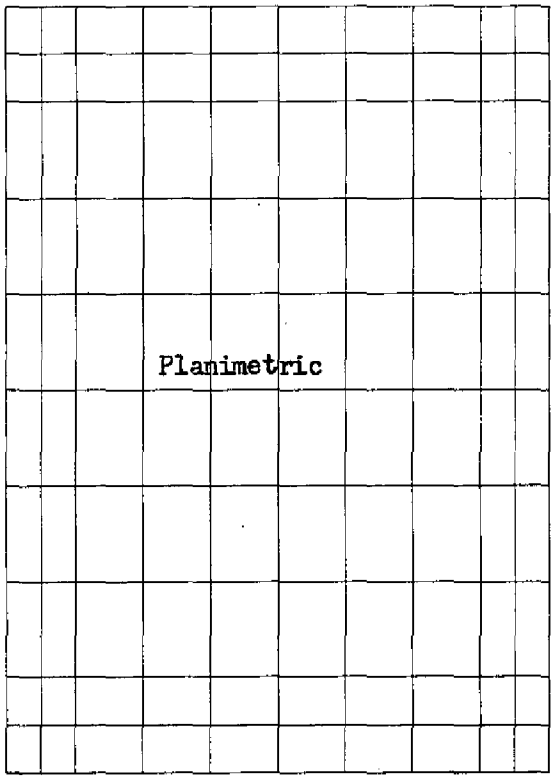
Y=185,008.78 X= 2,478,336.53

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

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

M-2618-12(4)

T-10926 and T-10927



Areas contoured by various personnel
(Show name within area)
(II) (III)

FORM 181b
(4-23-54)

T-10926

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): George F. Wirth
J. E. Tolodziecki
Date: April 1959 thru June 1959

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 1959 Field inspection on 1958 photographs.

Projection and Grids ruled by (IV): P. Dempsey Date: 5/7/60

Projection and Grids checked by (IV): Date:

Control plotted by (III): J. Steinberg Date: 7/6/60

Control checked by (III): R. Glaser Date: 7/6/60

Radial Plot ~~Stereoscopic Control extension~~ by (III): H. R. Rudolph Date: 8/16/60

Stereoscopic Instrument compilation (III):
Planimetry Date:
Contours Date:

Manuscript delineated by (III): J. Y. Councill Date: 9/19/60

Manuscript scribed by: R. M. Whitson Date: 3/13/61

Photogrammetric Office Review by (III): R. Glaser Date: 10/27/60

Elevations on Manuscript checked by (II) (III): Date:

DATA RECORD 3a.

Field Inspection by (II): George F. Wirth
J. E. Tolodziecki
Date: April 1959 thru June 1959

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 1959 inspection on 1958 photographs.

Projection and Grids ruled by (IV): J. Keefer Date: 5/6/60

Projection and Grids checked by (IV): Date:

Control plotted by (III): J. Steinberg Date: 7/1/60

Control checked by (III): J. A. Monney Date: 7/1/60

Radial [redacted] by (III): H. R. Rudolph Date: 8/16/60

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): J. Y. Councill Date: 9/2/60

Manuscript scribed by: R. M. Whitson Date: 2/20/61

Photogrammetric Office Review by (III): R. Glaser Date: 10/20/60

Elevations on Manuscript checked by (II) (III): Date:

Camera (kind or source) (III): "W" and nine-lens Camera.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
59-W-9550 & 51	10/5/59	1317	1:10,000	(Interior)
57304 & 57305	5/22/58	1214	"	0.5 ft above MLW
57331 & 57332	5/23/58	1241	"	0.2 ft above MLW

Tide (III)

From predicted tide tables

	Ratio of Ranges	Mean Range	Spring Range
Reference Station: Washington, D. C.		2.9	3.3
Subordinate Station: Colonial Beach, Virginia	.55	1.6	1.8
Subordinate Station:			

~~Washington Office~~ Final Review by (IV): Balto. Dist. Office - R. Glaser Date: 3-7-63

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 14

Shoreline (More than 200 meters to opposite shore) (III): 5.2 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 1.4 mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 1 Recovered: 1 Identified: 1

Number of BMs searched for (II): None. Recovered: Identified:

Number of Recoverable Photo Stations established (III): None.

Number of Temporary Photo Hydro Stations established (III): None.

Remarks:

Two topographic stations established in 1942 were searched for, but not found.

FORM 181c
(4-23-54)

T-10927

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): "W" and nine-lens camera. 4a.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
59-W-9548 & 49	10/5/59	1315	1:10,000	(Interior)
57301 to 57303	5/22/58	1212	"	0.5 ft. above MLW

Tide (III)
From Predicted Tide Tables

		Ratio of Ranges	Mean Range	Spring Range
Reference Station:	Washington, D. C.		2.9	3.3
Subordinate Station:	Blackiston Island, Maryland		1.9	2.2
Subordinate Station:				

Final
~~Washington Office~~ Review by (IV): Baltimore District Office - R. Glaser Date: 3-7-63

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 9
Shoreline (More than 200 meters to opposite shore) (III): 3.7 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 0 mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 1 Recovered: 1 Identified: 1
Number of BMs searched for (II): None. Recovered: Identified:
Number of Recoverable Photo Stations established (III): None.
Number of Temporary Photo Hydro Stations established (III): None.

Remarks:

Five topographic stations established in 1942 were searched for; two could not be found, one found destroyed and two were recovered.

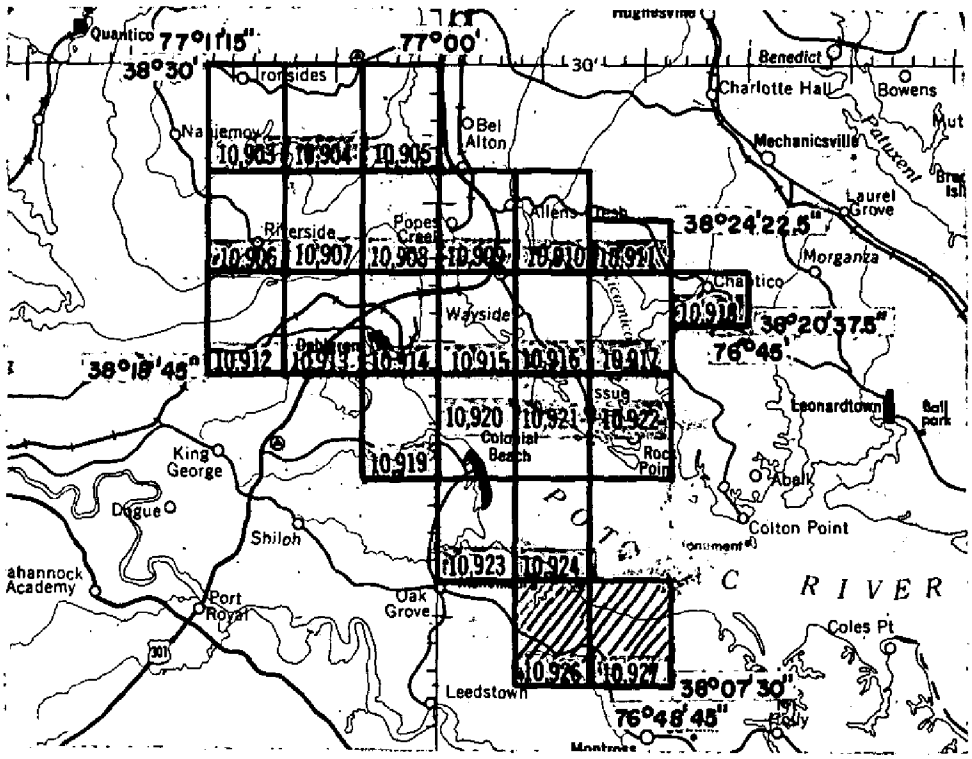
COMM-DC-57842

PROJECT PH-5901

Planimetric Mapping Scale 1:10,000

Potomac River Va.-Md.

Maryland Point to Wicomico River



Official Mileage for Cost Accounts

Sheet Number	Area Sq. Mi.	Lin. Mi. Shoreline	Sheet Number	Area Sq. Mi.	Lin. Mi. Shoreline
10903	13	14	10915	6	7
10904	13	9	10916	14	7
10905	11	14	10917	7	16
10906	12	9	10918	7	2
10907	3	9	10919	12	12
10908	4	5	10920	2	4
10909	13	3	10921	5	12
10910	12	11	10922	6	20
10911	7	2	10923	9	17
10912	10	7	10924	2	4
10913	13	9	10926	14	5
10914	10	13	10927	10	3

TOTALS--- Area 215 Sq. Mi. Shoreline 214 Mi.

Summary to Accompany Descriptive Report

T-10926 & T-10927

Planimetric maps T-10926 and T-10927 are the most southerly of twenty-four similar maps and one shoreline survey in Project Ph-5901. They cover a portion of the south shore of the Potomac River just west of Project Ph-161, from Nomini Cliffs westward to and including the lower portion of Popes Creek. This is a graphically compiled project at a scale of 1:10,000 in advance of hydrographic surveys to be made in the area. The area was covered by 9-lens photography of May 1958, supplemented by single lens "W" photography of October 1959. The manuscripts were controlled by radial plot using Stereoplanigraph bridge points to supplement field identified control. The field operations preceding compilation included complete field inspection, recovery and identification of horizontal control and recovery of landmarks and recoverable topographic stations. The manuscripts are vinylite sheets 3-3/4' in latitude by 3-3/4' in longitude which were scribed and reproduced on cronaflex following photogrammetric office review. The registered copies under T-10926 and T-10927 will consist of a cronar film positive and cronar film negative of each scribed manuscript.

Field Inspection Report

PH 5901

Maryland and Virginia

2. Areal Field Inspection

This report is submitted for the Virginia portion of the Project covering 11 maps in King George and Westmoreland Counties. (T-10907, T-1908, and T-10912 will also be covered in the Report on the Maryland portion of PH 5901.)

1958 9lens prints (1:10,000 scale) were adequate with the following exceptions:

A.) The town of Colonial Beach, Virginia, fell too near the end of the photos to obtain good detail.

B.) The flight lines covering Dahlgren, Virginia were too widely spaced and some detail was lost due to insufficient overlap of adjacent flight lines.

3. Horizontal Control

There were no horizontal control requirements for this phase of the project. All the control was recovered during PH 5803 during the winter of 1958-1959.

4. Vertical Control

As instructed by the Project Instructions, the tidal bench marks in the area were recovered and identified with the following exceptions:

A. In Colonial Beach, Virginia T.B.M. 5, 1928 and T.B.M. D 92, 1935 were reported as destroyed.

B. In Dahlgren, Virginia T.B.M. N.P.G. 11 was reported as lost.

5. Contours and Drainage

Contours are inapplicable.

The drainage in the lower reaches is by ill-defined small perennial streams and/or marsh and swamp. The upper reaches are better defined and have been examined stereoscopically and little difficulty should be encountered. All ill-defined drainage has been delineated.

6 7. Woodland Cover

Woodland cover has been delineated by notes on the photos.

7 8. Shoreline and Alongshore Features

The shoreline and alongshore features have been well defined on the field photos.

8 9. Offshore Features

The offshore features have been noted on the field photos. The wreck near latitude 38-10, longitude 76-45 should be investigated by the hydro party.

9 10 Landmarks and Aids

A thorough inspection of landmarks and aids for nautical and aeronautical charts was made and form 567 has been submitted for each. All aids and landmarks were identified by the direct method on the photos.

10 11. Boundaries, Monuments, and Lines

The Maryland, Virginia State boundary line was omitted per instructional letter dated 15 May 1959.

The Westmoreland-King George County Line is shown on the photos. This boundary was taken as Rosier creek, as shown on

the Dahlgren, Virginia Quadrangle (7.5 minute series). Where the line leaves Rosier Creek and heads south is a disputed position between the two counties. The following data was obtained from the County Clerk at King George, Va.

The line runs from the head of Bristol Mine Run, a branch of the Rappahannock River, N. 2°E, 1848 poles to Washington's Mill Pond on Rosier Creek and hence thru Rosier Creek to the Potomac River.

The line has not been surveyed due to the inability to recover the geographic landmarks. Two lines are shown on photo 59-W-9556. The most easterly line corresponds to the U.S.G.S. Quad. and where one group of individuals claim Washington's Mill Pond was located on Rosier Creek. The other line corresponds to the place on Rosier Creek where the other group of individuals claim Washington's Mill Pond existed and thru the point where the state road signs indicate a change in counties and the type of road surface changes.

The George Washington Birthplace National Monument Boundary was copied and scaled from a boundary map furnished by the Superintendent at the Park Headquarters. The boundary agreed with that published on the U.S.G.S. 7.5 minute quadrangle of Wakefield Va., Md. The above mentioned boundary map has been transmitted with the photographs.

The boundary of Westmoreland State Park was copied from a boundary survey blueprint at the State Park Office.

The boundarys of Colonial Beach, Virginia and the Naval Weapons Laboratory at Dahlgren (formerly Naval Proving Grounds) have been submitted on separate blueprint drawings obtained from the respective local authorities.

11. Other Control

All previously marked topographic stations that are located in such a position as to be of value to hydrography were searched for and reported on Form 524.

The following stations were recovered and identified on the field photos:

Range Station 27 (1942) 1959
Sta. No. 25 B. of O. (1942) 1959
USED #169 (1942) 1959
Sta. 17, B. of O. (1942) 1959
C-3 (1942) 1959
Sta. No. 21 B. of O. (1942) 1959
Ref. Sta. No. 9 (1942) 1959

The following stations have been reported as lost on Form 524:

B.M.D. 92 (1943)
Westmoreland St. Pk. Bound. Mk. C (1942)
" " " " " A "
BEE (1942)
Range 13, U.S.N. (1942)
U.S.E.D. No. 286 (1944)
SAN (1942)
MUD (1942)
U.S.E.D. 288 (1942)
EARL 2 (1942)
PON (1942)

12. Other Interior Features

All roads were classified in accordance with Photogrammetry Instruction No. 56 dated 1 July 1958.

All buildings were classified in accordance with Photogrammetric Instruction No. 54 dated 2 January 1958.

There is one sod landing field on the project limits which has been indicated on the field photos. Another sod runway is located just off the limits of the project and was also indicated on the field photos.

There were no horizontal or vertical bridge and cable clearances made as instructed in the Project Instructions.

13. Geographic Names

A systematic geographic names investigation was not required but an investigation of disputed names will be reported under a Geographic Names Report to be forwarded at a later date.

14. Special Reports and Supplemental Data.

A Coast Pilot Report will be forwarded at a later date.

Respectfully submitted:
18 December 1959

George F. Wirth

George F. Wirth
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

Surveys No. T-10903 through T-10909,
T-10912 " T-10914,
T-10919, T-10920, T-10923,
T-10924, T-10926, T-10927.

21. AREA COVERED

This radial plot covers the area of the surveys listed above. They are planimetric surveys along both sides of the Potomac River from Maryland Point eastward to the Potomac River Bridge, thence eastward along the southern side of the Potomac River to Nomini Cliffs, where this project joins with project Ph-161.

22. METHOD-RADIAL PLOT

Map Manuscripts:
Vinylite sheets with polyconic projections in black, Maryland Grid in red and/or Virginia, North Zone Grid in green were furnished by the Washington Office.

The positions of all triangulation stations, substitute points and stereo-bridge points were plotted on the manuscripts with the Coordinatograph.

When the map manuscripts arrived in this office, it was noted that the ruling of the projections and grids had not been checked prior to transmittal from the Washington office. Due to the priority and time element on this project, the map manuscripts were only spot checked. While taping the manuscripts together, prior to laying the radial plot, it was noted that many of the Virginia grids would not hold with the projections and/or Maryland grids. Since most of the control was plotted using the Virginia grid, this grid was used to join the manuscripts.

The following is a list of manuscripts with errors in the ruling of the projections and/or grids. These will be corrected in this office. Corrected

T-10906 - The projection line for 38° 26' is off approximately 2 mm.
T-10907 - The projection line for 38° 25' 30" is off approximately 1 mm.
T-10908 - The grid line for y=275,000 is off approximately 10 feet.
T-10911 - The grid line for x-845,000 is off approximately 30 feet.
T-10914 - The grid line for y=240,000 has to move approximately 10 feet north.
T-10920 - This was ruled the same as T-10919 and was reruled in Washington.
T-10926 - The projection line for 76° 56' 15" is off approximately 1 mm.

A sketch showing the layout of the surveys, distribution of control, and photograph centers is attached to this report.

Photographs:

Forty-eight (48) nine-lens photographs at a scale of 1:10,000, five single lens photographs taken at a scale of 1:25,000 and ratioed to a scale of 1:10,000 (58-W flight) and nineteen (19) single lens photographs taken at a scale of 1:40,000 and ratioed to a scale of 1:10,000 were used in this plot, numbered as follows:

Nine-lens			Single lens		
57247	through	57253	58-W-596	through	600
57270	"	57277	58-S-4981	"	4985
57281	"	57285	59-W-9547	"	9552
57300	"	57309	59-W-9555	"	9557
57331	"	57348	59-W-9574	"	9578

Templets:

Vinylite templets were made for all photographs.

The master templet was used to correct for film and paper distortion, and chamber displacement on all nine-lens photographs. No master templet was available for the single lens photographs.

Closure and Adjustment to Control:

The radial plot was constructed directly on the map manuscripts. The construction began at the southern corner of the project (T-10927) and extended towards the northwest. A tie was made with identified control and pass points in project Ph-161, survey No. T-10661.

While running this plot great difficulty was encountered trying to lay the plot in the area of survey No. T-10919. A search was made for something to help in by-passing a group consecutively tilted nine-lens photographs. The cahier of descriptions and quadrangle Dahlgren, Va.-Md., indicated numerous C&GS stations not shown on the project control layout. Additional control was field identified. Copies of the single lens photographs, 59-W-9555 through 9557, were reordered printed on cronapaque. After this additional work was completed a rigid plot was continued northward.

Since there is no field identified control along the southern part of survey No. T-10912 and T-10913, the stereo-bridge points were held in this plot.

Transfer of Points:

The position of all photogrammetric points and photograph centers where pricked on the top templet and drilled down through the templets and map manuscripts.

23. ADEQUACY OF CONTROL

The density and distribution of identified control along the river was adequate. The density and distribution of inland identified control was inadequate in some areas.

There was only two control stations (HILLTOP, 1934 and PORT BM, 1942) identified, in 1959, along the northern limits of this project. Nanjemoy, Maryland andMathias Point, Md.-Va., quadrangles disclosed several U.S.E.D. triangulation stations in this area. Two stations were field identified (see letter dated 12 September 1960, copy of which is attached to this report). Two control stations, HILLTOP LOOKOUT TOWER, 1957 and PBM 1431 (USED), 1943, were office identified.

To expedite the problem in the area of survey No. T-10919, personnel from this office, field identified control stations ROLLINS; GARNETT 2 and ROSIER 2.

To make sure that the southwest corner of survey No. T-10923 was near to mapping standard accuracy, one control station (TATE, 1934) was office identified. (Also see item 26)

MATTOX CREEK LIGHTHOUSE, 1932 - The radially plotted position for this station falls approximately 7.1 mm to the southeast of the plotted position. In the 1960 Light List, it states that No. 3106-Mattox Creek Light was moved or rebuilt in 1936. A Form 526 was made out in pencil and sent to the Washington office for their information. The station was removed from the manuscript. The radially plotted position was used for Mattox Creek Light.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

Many of the nine-lens photographs were received in this office quite badly warped, giving the surface a "wash-board" effect. Most of the badly warped photographs were reordered printed on cronapaque. Many of the photographs not reprinted gave trouble while trying to make adjustments using the master templet.

At first, when one looks at the cronapaque prints of the nine-lens photographs, it appears that the fiducial marks are missing. When these photographs are placed on a light table they are visible however. Using this method, the cross of the fiducial mark was pricked and the hole filled with white (wax pencil).

Some of the outer fiducial marks are missing in chamber 4 on photographs 57276, 57277, 57290 and 57293.

Many photographs had an inner fiducial mark missing or almost obscured in chamber 6. It appears that the frame for the center chamber has an extra large notch in the corner between chambers 1 and 6. This extra space allows the light to come through and obliterate most of the fiducial mark in chamber 6.

The following is a list of tilted photographs. No tilt determination was made for these photographs.

57235, 57236 and 57237,
57274,
57344, 57345 and 57346.

26. STEREOPLANIGRAPH BRIDGE POINTS

Only those stereo-bridge points, (paragraph 3, instructions dated 13 June 1960) that were needed to help control this plot were identified on the photographs and were "held to" within 0.5 mm. For clarity sake, these points do not appear on the layout sketch. The following is a list of points that could not be held.

Stereo-bridge No.	Discrepancy from bridge position	
0303	0.6 mm	W
0506	0.6 mm	SSW
0702	21.5 mm	SE
0703	14.0 mm	SE
1203	0.5 mm	ENE
1304	0.6 mm	E
8001	0.6 mm	SE
8002	0.9 mm	N
8301	21.8 mm	SE
8401	0.6 mm	NE
9301	0.6 mm	SSE
9602	1.8 mm	SW
9701	0.7 mm	SE

Stereo-bridge point No. 9604 is the same point as triangulation station BLOSSOM POINT RADIO TOWER, 1959. The geodetic position falls approximately 2.3 mm from the stereo position.

Respectfully submitted
15 November 1960

Leroy A. Senasack

Leroy A. Senasack
Carto. (Photo.)

NO.	Name	Identification
1	1427(USED), 1943	Sub. Pts.
2	HILLTOP, 1934	" "
3	HILLTOP LOOKOUT TOWER, 1957	Office Ident.
4	1429(USED), 1943	Sub. Pts.
5	PBM 1431(USED), 1943	Office Ident.
6	PORT BM, 1942	Sub. Pts.
7	BEL ALTON, 1942	" "
8	MARSH, 1928	---
	(LIGHT NO. 15)	Direct
9	METOMKIN POINT MIDDLE GROUND LT., 1928	
10	DIGGS, 1934	Sub. Pts.
	RIVERSIDE, 1928	---
11	RIVERSIDE WHARF LT. NO. 14, 1959	Office Ident.
12	BLOSSOM, 1956	Sub. Pts.
13	BLOSSOM POINT RADIO TOWER, 1959	Landmark-Direct
14	UPPER CEDAR 4, 1959	---
15	UPPER CEDAR POINT LT., 1959	Direct
16	TARGET, 1943	---
17	CRALLE (B OF O), 1943	---
18	GRYMES (B of O), 1943	---
19	MATHIAS 3, 1928	---
20	CLUB, 1928	---
	CLUB ECC, 1934	---
21	MATHIAS POINT SHOAL LIGHTHOUSE, 1928	Direct
22	BLUFF 3, 1942	Sub. Pts.
23	NEW, 1928	---
24	HICKEY, 1934	Sub. Pts.
25	PLOWDEN, 1942	Direct
26	MARYLAND 2, 1901	Sub. Pts.
27	MARYLAND POINT LIGHTHOUSE, 1928	Direct
28	WHEAT 3, 1928	---
29	METOMKIN 3, 1928	Sub. Pts.
	BDY MON. NO. 34, 1929	---
30	McDANIELS 2, 1954	---
31	STUART 3, R. M., 1928	Sub. Pts.
32	CHOTANK (B of O), 1943	---
33	ASHTON(NPG), 1941	---
34	1A (NPG), 1941	---
35	DAHLGREN PROVING GROUND SOUTH WATER TANK, 1954	Direct
36	MGB REF (B of O), 1954	---
	MACHINE GUN BATTERY (NPG), 1944	---
	FINN, 1954	---
37	RADAR (B of O), 1944	---
	GREENSLADE (KB), 1954	---
	2A (NPG), 1941	---
38	BRICKS 2, 1954	---
39	PROOF (B of O; 1945), 1954	---
	DAHLGREN PROVING GROUND AIRWAY BEACON, 1934	---
	DAHLGREN STEEL TOWER, 1941	---
	MB REF OFFSET, 1954	Sub. Pts.
40	MD-VA BOUNDARY MON. NO. 31, 1929	---

NO.	Name	Identification
41	PB REF (NPG), 1954	---
42	THICKET (B of O), 1941	---
43	HOOE (NPG) 1941	---
44	BOM 2, 1954	Sub. Pts.
45	PERSIMMON POINT SHOAL LT., 1928	Direct
46	ROLLINS (KB), 1954	Sub. Pts.
47	OWENS, 1934	---
48	SPY, 1941	---
49	GARNETT 2, 1954	Direct
	GARNETT (NPG), 1941	---
50	CUT 2, 1918	---
	MD-VA BDY. NO. 30, 1929	---
51	BABER POINT TOWER (B of O) 1944, 1954	Landmark-Direct
52	SHORT ROCKET (KB) R.M. NO. 1, 1954	Office Ident.
	SHORT ROCKET, 1954	---
53	1A (B of O), 1944	---
54	WITNESS MARK CENTER OF TOP OF IRON PIPE, 1959	---
	3 (KB)(3 OFFSET R.M. NO. 3), 1954	---
	3 OFFSET, 1954	---
55	3A (NPG, 1944), 1954	---
56	5A2 (B of O), 1954	Direct
	5(KB)(5AZ R.M. NO. 1), 1954	---
57	ROSIER 2, 1901, 1934 R.M. 2	Sub. Pts.
58	MD-VA BOUNDARY MON. NO. 28, 1929	---
59	WARE (KB), 1954	---
60	7 (KB), 1954	---
	7 (NPG), 1954	---
61	9 OFFSET, 1954	---
	9 (KB)(9 OFFSET R.M. NO. 1), 1954	---
	REF. STA. 9 (B of O), 1954	---
	9 (NPG), 1954	---
62	11 (NPG), 1954	---
	11 OFFSET, 1954	Sub. Pts.
63	HALL (NPG), 1941	---
64	LEARY (KB), 1954	---
65	13 OFFSET, 1954	---
	13 (NPG), 1954	---
66	COLONIAL, 1929	Direct
67	MD-VA BOUNDARY MON. NO. 27, 1929	---
68	SEBASTIAN, 1932	---
69	MATTOX CREEK LIGHTHOUSE, 1932 (MATTOX CREEK LT., 1959)	Direct
70	MARCHANT, 1932	---
71	MD-VA BOUNDARY MON. NO. 26, 1929	Sub. Pts.
72	CHURCH B, 1932	---
73	MATTOX, 1932	---
74	TATE, 1934	Office Ident.
	TATE R. M. L, 1934	" "
75	BRIDGES, 1954	---
	17 (KB), 1954	---
	17 (NPG), 1954	---
76	21 OFFSET, 1954	---

NO.	Name	Identification
76	21 (NPG), 1954	---
	21 (KG), 1954	---
77	WAKEFIELD WASHINGTON MONUMENT, 1934	Direct
78	DAMERON, 1954	---
	25 (NPG), 1954	---
	25 (KB), 1954	---
79	MD-VA BOUNDARY MONUMENT NO. 25, 1929	---
80	27 (NPG), 1954	---
	27 (KB)(STATFORD R.M. NO. 2), 1954	---
	STATFORD, 1954	Sub. Pt.
81	JOHNS, 1957	" "
82	CHILTON, 1934	" "

[illegible]

[illegible] 732-[illegible]

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON 25

12 September 1960

To: Baltimore District Officer
Coast and Geodetic Survey
518 - 32nd St.
Baltimore 18, Maryland

Subject: Corps of Engineers Horizontal Control, Project PH-5901

There is enclosed one copy of positions and descriptions of horizontal control established in the Nanjemoy quadrangle by the Corps of Engineers in [illegible]. These are third-order positions according to the description pamphlet.

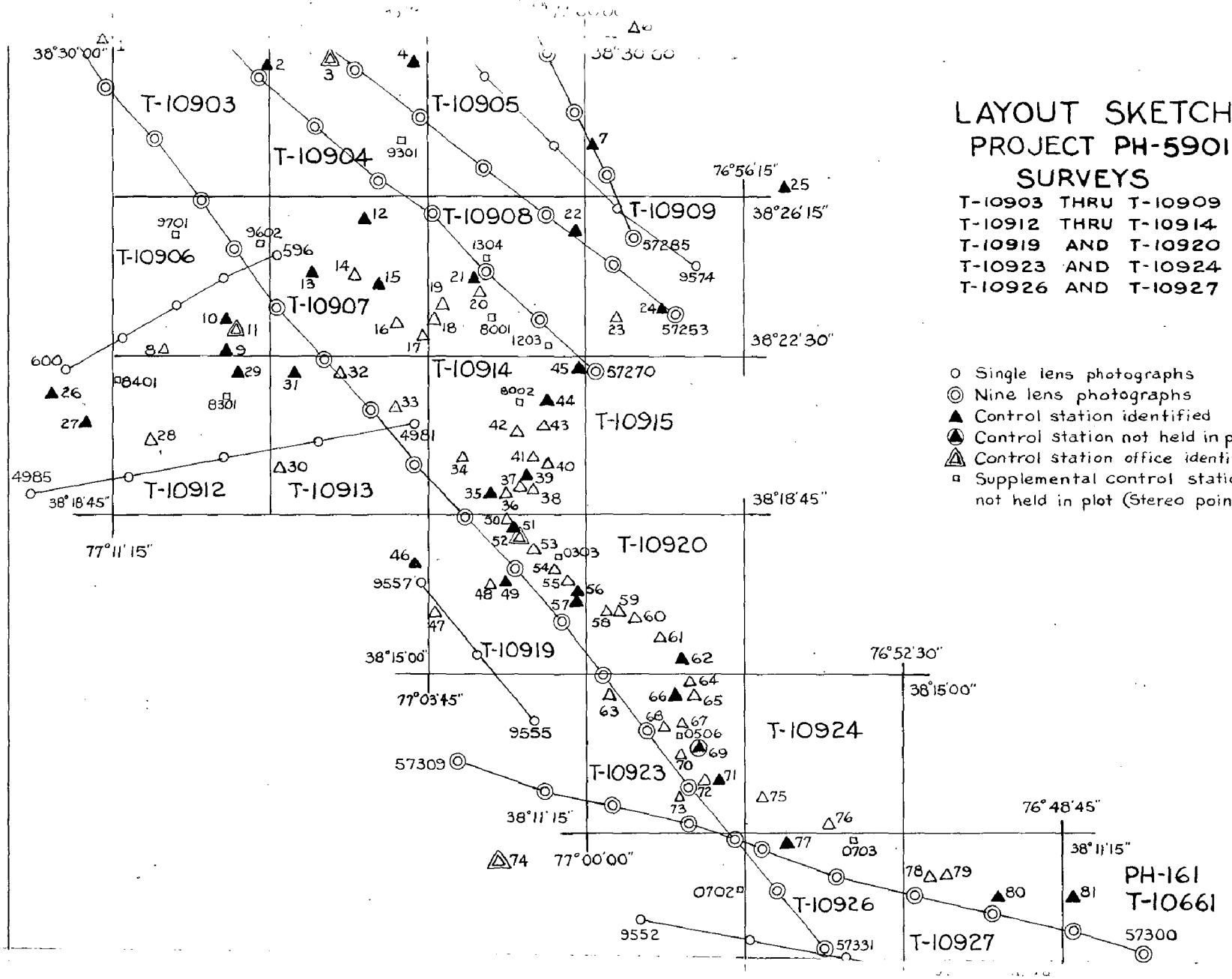
Personnel from your office shall recover and identify stations as required to strengthen radial plots for Project PH-5901 in maps T-[illegible] through T-10905.

This office shall be advised immediately if subject control is not recovered so that adequate steps can be taken to prevent delaying work now in progress on project 20,806-829.

A copy of this letter shall be inserted in, and made a part of, the descriptive report of each affected map.

Charles Pierce
Rear Admiral, C&GS
Deputy Director

Enclosure



LAYOUT SKETCH
PROJECT PH-5901
SURVEYS

T-10903 THRU T-10909
T-10912 THRU T-10914
T-10919 AND T-10920
T-10923 AND T-10924
T-10926 AND T-10927

- Single lens photographs
- Nine lens photographs
- Control station identified
- Control station not held in plot
- Control station office identified
- Supplemental control station not held in plot (Stereo point)

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 10926 PROJECT NO. Ph-5901 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
WAKEFIELD WASHINGTON MONUMENT, 1934	VA. N. p. 46	N.A. 1927	192,198.29 2,453,999.88				

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 6/28/60 CHECKED BY: H. R. Rudolph DATE 6/29/60

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 10927 PROJECT NO. Ph-5901 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
25 (N.P.G.) 1954	VA. N. p. 96	N.A. 1927	187,727.06 2,470,276.79				
25 (K.B.) 1954	"	"	187,724.22 3,470,293.06				
MD-VA BOUNDARY MONUMENT No. 25, 1929	p. 25	"	187,537.98 2,471,790.42				
25 (B. of O.),1939	p. 34	"	187,722.51 2,470,338.46				
27 (N.P.G.), 1954	p. 96	"	185,037.49 2,478,329.30				
27(K.B.)(STRATFORD RM No. 2) 1954	p. 96	"	185,036.40 2,478,308.71				
27 (B.of O.),1939	VA. N. p. 34	"	185,033.74 2,478,328.56				
DAMERON, 1954	VA. N. p. 94	"	187,682.68 2,470,272.56				
STRATFORD, 1954	VA. N. p. 94	"	185,008.78 2,478,336.53				
Sub. Pt. No. 1 STRATFORD, 1954	Comp.	"	185,032.12 2,478,328.76				1 22 1

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 6/28/60 CHECKED BY: H. R. Rudolph DATE 6/29/60

COMM-DC-57843

COMPILATION REPORT
T-10926 and T-10927

31. DELINEATION

These map manuscripts were compiled by graphic methods.

32. CONTROL

Identification, density and placement of the horizontal control was satisfactory.

The following control is very near DAMERON, 1954 and was omitted from the manuscript:

25 (B of O) 1939
25 (NPG) 1954
25 (KB) 1954

The following control is very near STRATFORD, 1954 and was omitted from the manuscript:

27 (KB)(STRATFORD RM No. 2) 1954
27 (B of O) 1939
27 (NPG) 1954

33. SUPPLEMENTAL DATA

For geographis names, AMS quadrangles Wakefield and Stratford were used. (Geographic name sheets dated 10/10/60, approved by L. Heck)

34. CONTOURS AND DRAINAGE

Contours: Not applicable.
Drainage: Office interpreted including some swamp areas.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was satisfactory, and the MHWL supplied by the Field Party was traced onto the map manuscripts. No LWL was inspected and none was applied to the manuscripts.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

One Form 567 has been submitted for Wakefield Washington Monument and a Radio Tower as aeronautical aids. (T-10926)

38. CONTROL FOR FUTURE SURVEYS

Five Forms 524 are being submitted for stations not recovered by field party.

Two topographic stations have been recovered and are listed under item 49, Notes for the Hydrographer. Forms for these two were submitted 9/2/60.

39. JUNCTIONS

Junctions have been made to the east with T-10661, Ph-161; and to the north with T-10924 of this project. There are no contemporary surveys to the south and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

The boundary line (in the Potomac River) between Charles County and St. Marys County was transferred from the A.M.S. Stratford, Va., Md. quadrangle.

The boundary of Westmoreland State Park was from field data on photograph 57303. This boundary was copied from a blueprint in the State Park Office. (See item 10, field report). The boundary as shown on the manuscript however, does not entirely agree with the boundary as delineated on the AMS Wakefield and Stratford quadrangles.

42. thru 45.

Not applicable.

46. COMPARISON WITH EXISTING MAPS

AMS quadrangles STRATFORD VA AND WAKEFIELD VA., scale 1:25,000, dated 1946.

47. COMPARISON WITH NAUTICAL CHARTS

These planimetric map manuscripts have been compared with nautical chart No. 558, scale 1:40,000, published 11/16/59, corrected through Notice to Mariners No. 27, July 2, 1960.

Items to be applied to nautical charts immediately: None.
Items to be carried forward: None.

Approved and forwarded

William E. Randall
CDR, C&GS
Baltimore District Officer

Respectfully submitted
9/20/60

Judson Y. Councill

Judson Y. Councill
Carto. Aid

10-27-60

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10926 & T-10927

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

4a. Classification label ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations X 8. Bench marks X
9. Plotting of sextant fixes X 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line X 14. Rocks, shoals, etc. ✓ 15. Bridges X 16. Aids to navigation X 17. Landmarks ✓ 18. Other alongshore physical features ✓ 19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours X 23. Stereoscopic instrument contours X 24. Contours in general X 25. Spot elevations X 26. Other physical features ✓

CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads X 30. Other cultural features ✓

BOUNDARIES

31. Boundary lines ✓ 32. Public land lines X

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay X 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. R. Glaser
Reviewer

Joseph Steinberg
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

COMM-DC 34529

Review Report T-10926 & T-10927

Planimetric
March 7, 1963

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-10926:

1106	1:20,000	1868
1467	1:10,000	1879
8142	1:20,000	1942, 1943

T-10927:

1106	1:20,000	1868
2598	"	1902
8141	"	1942, 1943

T-10926 and T-10927 supersede the above prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A.M.S. Stratford, Va.	1:25,000	1946
U.S.G.S. Wakefield, Va.-Md.	1:24,000	1953

The boundary of Westmoreland State Park as shown on the quadrangles is in disagreement with that on the manuscript. The boundary as shown on the manuscript was copied by the field party from a print of the boundary survey on file at the State Park Office. This boundary is believed to supersede the line shown on the quadrangles.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet

H-8611	1:10,000	1961

T-10926:

No disagreements between the boat sheet and the manuscript were noted. However, the boat sheet does not show a number of piers and an area of mooring stakes delineated on the manuscript.

T-10927:

No disagreements were noted. The manuscript shows a foul area near Horsehead Cliffs which does not appear on the boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

558 1:40,000 5th Ed. November 5, 1962

T-10926:
The chart shows a great lateral extent of bluff along the shores of Popes Creek and the Potomac River. The manuscript shows bluff only in the vicinity of Reel Point.

The manuscript shows a number of small groins along the Potomac River shore which are not charted.

T-10927:
There are several small differences between the chart and the manuscript in the rendition of bluffs.

Offshore from Horsehead Cliffs, the chart displays a symbol which cannot be found in Chart No. 1 (Nautical Chart Symbols). A portion of this non-conforming symbol seems to coincide with a small foul area on the manuscript. This foul area is not otherwise represented on the chart. In the same general area a charted sunken wreck is not shown on the manuscript.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These surveys comply with instructions and meet the National Standards of Map Accuracy.

Reviewed by

R. Glaser

Approved by

Baltimore District Officer

Chief, Review Section

Chief, Photogrammetry Division 4/8/64

Form 567
(10-15-58)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

AERONAUTICAL
~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED } STRIKE OUT TWO
~~TO BE DELETED~~

Baltimore, Maryland 6 Jan. 1961

I recommend that the following objects which have ~~(do not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~do not chart~~ the charts indicated.

The positions given have been checked after listing by R. Glaser

William B. Randall
Chief of Party.

STATE VIRGINIA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	~~MAKEFIELD WASHINGTON MONUMENT~~, 1934			01.43		13.74	N.A.	T-10926					Washington
MONUMENT	ht=52 (80) MSL		38 11	44	76 55	334	1927	Triang.	12/7/59		X		Sectional
	RADIO TOWER			57.00		55.94		Radial					" and
TOWER	(steel) ht=304 (476) MSL		38 08	1745	76 54	1362	"	Plot	4/24/59		X		558

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. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

USCOMM-DC 27126

48. Geographic Name List

Baynesville
Black Swamp
Blake Point
Broadview
Bryant Swamp
Bryant Town
Burnt House Point

Canal Swamp

Dividing Swamp
Dixon Stop

Flamstard Hill Swamp
Flat Iron

Great Island

Hill School (settlement)
Horsehead Cliffs

Kenna Swamp
Kentucky Hill
Kentucky Run

Lerty

Mason Swamp
Marriner Run
Morris Run
Morris Store

Nomini Cliffs

Popes Creek
Popes Creek Swamp
Potter Branch
Point of Point

Reel Point

Smith Landing
Smith Mount Branch
Stratford Hall
Stratford Landing
Stratford Mill Run
Stratford Cliffs

The Big Meadow
The Big Swamp
The Little Meadow
The Sands

Wakefield
Wakefield National Park
Westmoreland State Park

George W. Boone
Geographic Names Section
11 July 1963

FORM C&GS-8352
(9-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10926 & T-10927

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.