

8325

Diag. Cht. No. 78-4.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. CS-289 W1 Office No. T-8325

LOCALITY

State Virginia

General locality York River

Locality Williamsburg

1948-52

CHIEF OF PARTY

F.E. Peacock, Chief of Field Party

L.J. Reed, Div. of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE June 5, 1958

B-1870-1 (1)

8325

DATA RECORD

T-8325

Project No. (II): CS-289W1

Quadrangle Name (IV): WILLIAMSBURG

Field Office (II): Baltimore, Md

Chief of Party: Fred E. Peacock

Photogrammetric Office (III): Washington, D.C.

Radial Plot = Leslie E. Lande
Officer in Charge:
Compilation = Louis J. Reed

Instructions dated (II) (III):

Copy filed in Division of
Photogrammetry (IV)(II) = Photogrammetry Instructions No. 17
(III) = Photogrammetry Manual

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV):

DEC 19 1953

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

495

Date:

1953

Date registered (IV):

1 April 1958

Publication Scale (IV):

1:24000

Publication date (IV):

Geographic Datum (III):

NA 1927

Vertical Datum (III):

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):

Lat.:

Long.:

Adjusted

~~XXXXXXXXXX~~

Plane Coordinates (IV):

State:

Zone:

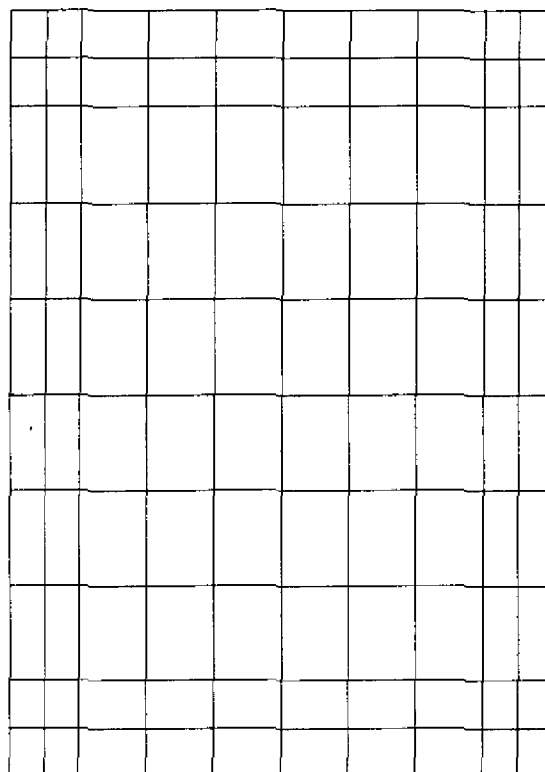
Y=

X=

1. Virginia State Grid, South (10,000 Ft interval)
2. U S Military Grid, Zone A (1,000 yard interval)
3. Universal Transverse Mercator, Zone 18 (1,000 meter interval)

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.



Areas contoured by various personnel

(Show name within area)

(N) (III)

100% contoured on the Reading Plotter, model B,
by a two-man team of

and Orvis N. Dalbey
Louis Levin

with a third man acting as alternate to relieve
either man of the team when off duty. He was

William D. Harris

DATA RECORD

Field Inspection by (II): Fred E. Peacock Date: 1944

Planetable contouring by (II): None Date:

Completion Surveys by (II): E. T. Jenkins Date: 10-28-52

Mean High Water Location (III) (State date and method of location):

The MHWL was indicated on 1942 9-lens photos during 1944 field inspection, which was used as a guide during 1951 delineation using 1948 photographs. Therefore this shoreline is dated 1944.

Projection and Grids ruled by (IV): Jack Allen on the Reading Ruling Machine Date: 31 Oct 51

Projection and Grids checked by (IV): Howard D. Wolfe Date: 1 Nov 51

Control plotted by (III): John B. McDonald and Charles E. Cook Date: 10 Nov 51

(Manuscript)

Control checked by (III): Louis J. Reed Date: 11 Nov 51

Radial Plot of ~~XXXXXX~~ Roscoe J. French and Date: 9 Nov 51
~~XXXX~~ extension by (III): William D. Harris

delineation by Planimetry Orvis N. Dalbey Date:
 Stereoscopic Instrument ~~correlation~~ (III): and and 5 Dec 51
 Contours Louis Levin Date:

compiled
 Manuscript ~~checked~~ by (III): John B. McDonald Date: 8 Dec 51

Photogrammetric Office Review by (III): None Date:

Elevations on Manuscript Louis J. Reed Date: 8 Dec 51
 checked by (II) (III):

Camera (kind or source) (III): USC&GS 9-lens camera, model B, f=8.25 Inches

Number	Date	Time	Scale	Stage of Tide
22,288				
289				
290				
299				
300	30 Mar 48	Clock	20,000	
301		Stopped		
319	Single lens Photos 51-0-1073 and 1038 to 1043,			
320	were field inspected in 1951, were used to correct			
22,321	shoreline before Field Edit. The Field Editor was			
	supplied with 1952 nine lens photos 36066 to 36068.			

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): C. Theurer

Date: 9-25-53

Final Drafting by (IV): R. Kelly

Date: 1-22-58

Drafting verified for reproduction by (IV): W.O. Hallin

Date: 2-27-58

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 60 sq mi

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

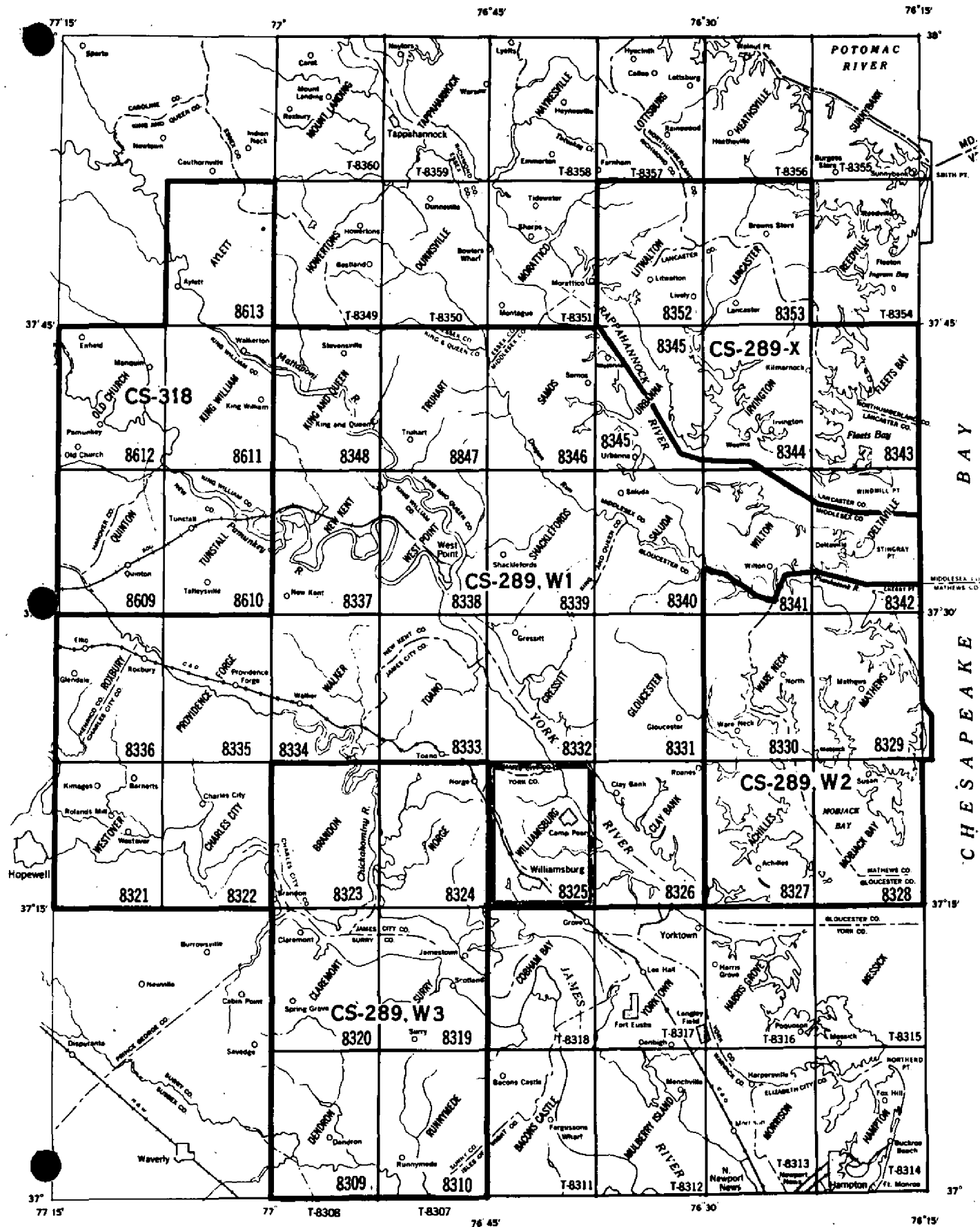
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

TOPOGRAPHIC MAPPING PROJECT CS-289-318 (47)

VIRGINIA, Rappahannock River to James River



Summary T- 8325

Topographic mapping Project CS-289 is divided into six subprojects: CS-289a, b, x, W-1, W-2, and W-3. Information concerning Project 289 in its entirety will be included in the Project Completion Report. T-8325 is one of seventeen standard 7.5 minute quadrangles and parts of three quadrangles that are included in CS-289 W-1. This area was compiled by the Reading Plotter.

This subproject covers an area between the Rappahannock and the James Rivers including the York, Pamunkey, Mattaponi and Piankatank Rivers. Principal cities of the area are West Point and historically important Williamsburg and Yorktown.

The portion of CS-289 W-1 north of latitude $37^{\circ} 30'$ was completed in 1947 through 1949 and the maps were published by the Geological Survey 1949 through 1951. The compilation of the southern part of this subproject was resumed and completed in 1952. It will be field edited in 1952 and 1953. The Army Map Service published preliminary copies of T-8325, T-8326, and T-8332 that will be revised when the field edit is complete.

The maps of this project are to be published at 1:24,000 scale by the Geological Survey. A cloth-backed lithographic print of the original map manuscript at compilation scale, 1:20,000 and a cloth-backed color print of the published quadrangle, together with the descriptive report, will be filed in the Bureau Archives.

Descriptive Report to Accompany

Quadrangle T-8325

Project CS 289 W - 1
Virginia

Harland R. Cravat, Chief of Field Party

5. Vertical Control:

Date Started 1-2-46
Date Completed 3-11-46
Linear Miles 42

Recovery

Previous existing vertical control was pricked and recovered early in 1944 by the War Mapping Field Party. No attempt was made to determine the adequacy of the work. It was felt that the field edit party would pick up any discrepancies which might exist.

No new third order leveling was accomplished in the quadrangle.

Methods:

About 42 linear miles of 4th order levels were completed by Mr. Jerry R. Valenstein, Engineering Aid. Elevations were carried by trigonometric methods using a Kern Theodolite equipped with stadia hairs and Simmons-Adams level rods. Computations were made with a stadia slide rule to the nearest 1/10 of a foot.

Level information appears on the photos in blue ink. The code letters WB prefix all spot elevations. The following system was used to distinguish the closed loops from loops closed on tide water or elevations left hanging.

1. Elevations underscored by a dashed line indicate the loop was closed on tide water and no adjustment made.
2. Elevations underscored by a solid line indicate the spot elevation is closed into the loop and the loop closed on a bench mark or a previously determined elevation.
3. Elevations circled indicate the elevation is not closed into the line.

In several places the accuracy of the work appeared questionable to the checker. In such cases a recheck was made by Wye Leveling methods, and the results in red ink entered under the trigonometric spot elevations. Elevations shown in red ink are correct and the blue stricken out after office examination.

Submitted with the photos is a layout showing the approximate positions of the spot elevations. On the fly leaf of each level volume is the following: loop, page, closure, field notes checked by, inked on photograph number, copy checked by, and remarks.

Respectfully submitted,
March 12, 1946

/s/ Harland R. Cravat
Photogrammetric Engineer

Photogrammetric plot report:

21. Area covered.

This report covers the radial line plot for eight topographic quadrangles in the vicinity of the York and James Rivers near Williamsburg, Virginia.

T-8334	T-8333	T-8332	T-8331
T-8323	T-8324	T-8325	T-8326

22. Method:

Nine vinylite base grids were ruled at 10,000 foot intervals, and all stations were plotted from Virginia North grid computations. The nine-lens metal mounted photographs were prepared in the usual manner with control and secondary pass points being applied with the 4 mm. floating circle technique. Azimuths were put on with the Reading Plotter. A density of 4 or 6 inches between pass points was maintained throughout the plot, and rectification points were introduced into the net work from levels and elevations previously determined by field methods.

Vinylite templets were used and the lines were etched and filled with wax pencil. Calibration templet No. 21682 was used to help compensate for inherent transforming and printing errors in the photographs for that series. No. 16664 was used for adjusting photographs 18681, '682, and '683 which had to be used to fill in a gap in the 1948 22,000 series.

More control was recovered than is ordinarily needed for such an area, but since the field inspection was available they were used. The field inspection was done in 1942 on older photographs and numerous stations were of doubtful pricking quality which made transfer to later photography dubious in some cases. However, enough positive stations were identified and recovered to insure a strong plot which is well within the accuracy requirements specified. Substitute point Chickahominy, 19- was the only station asked to be field recovered during the preparation and actual laying of the radial plot. It was in a critical location and added strength to the plot.

The radial plot was laid in two sections due to a limited space on the plotting table but should be considered as one continuous plot. The intersections were drilled with a number 80 twist drill and ringed with a 4 mm. diameter blue, GPO ink circle on the back of the base grid, and then transferred to the back side of the individual manuscripts.

23. Adequacy of control:

Horizontal control was spaced properly and was considered adequately held throughout to make it a strong plot.

24. Supplemental data:

None

25. Photography.

Photography was generally adequate except in a gap in the 1948 photography on T-8333 and T-8334 where 18681, 18682, and 18683 (1946 photography) were used, and on T-8326 where 18726 and 18727 (1946) were used to fill in.

There were individual chamber vacuum failures on some photographs, but the side and end lap coverage on the balance of the photography gave sufficient coverage to insure good intersections in those areas. Tilt was not considered a hindrance in laying the plot, and none was computed. Photograph 22290 was considered of inferior quality, but a templet was made and laid in the plot for whatever use could be made of it.

Sketch and form M-2388-12 Control Stations.

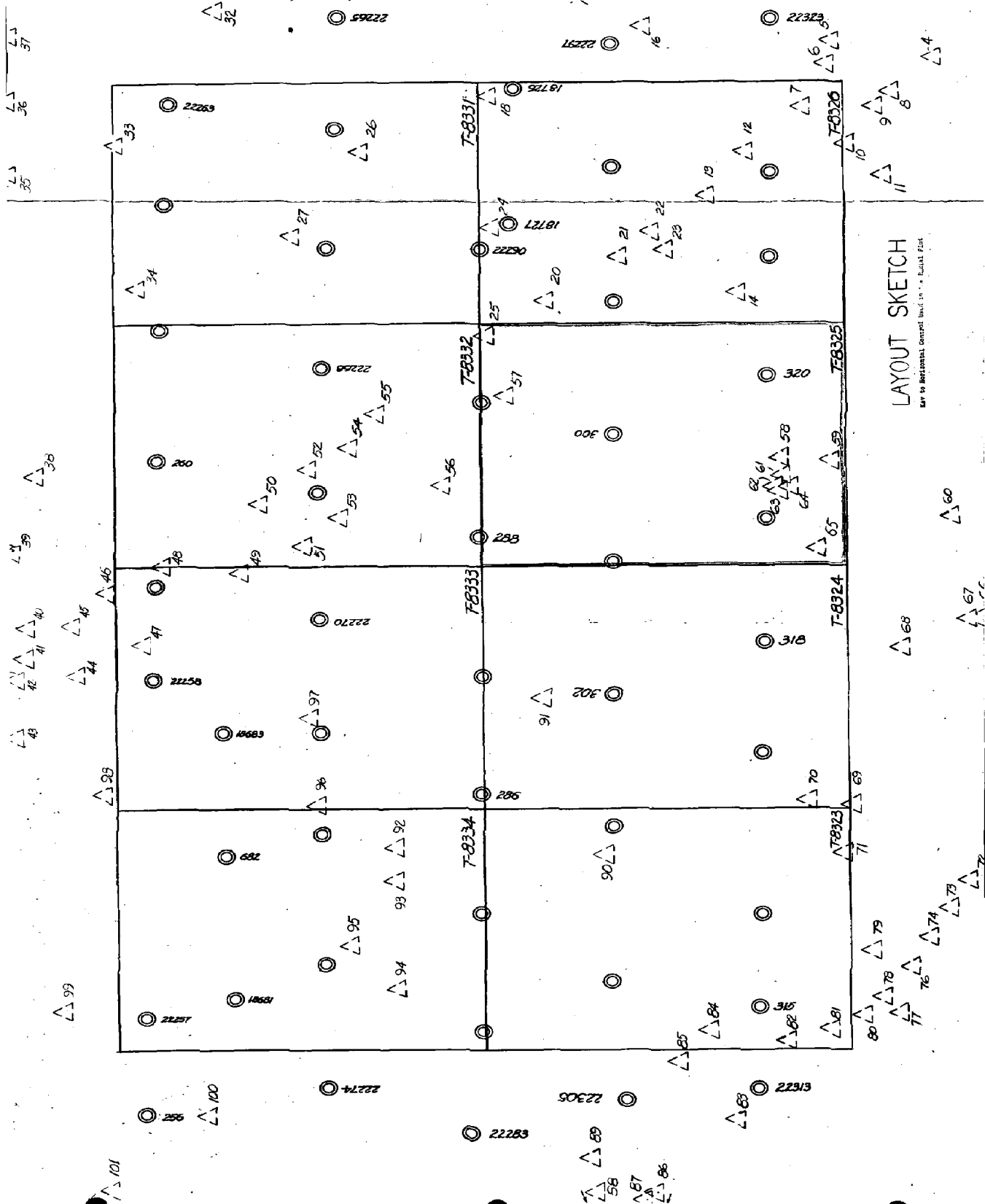
The attached sketch shows the control used in the radial plot. The geographic positions for all recovered positions are listed in the individual descriptive reports.

Submitted by:

Roscoe J. French
R. J. French

Approved:

L. C. Lande
L. C. Lande



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LAYOUT SKETCH
 Map to National Control Grid in U.S. Coast and Geodetic Survey

MAP T. 8325

PROJECT NO. CS-289W1

SCALE OF MAP

20,000

SCALE FACTOR

1:1

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	STATION LATITUDE OR N-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS (BACK)		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
Williamsburg Municipal Water Tank 1942	113 769-2	E	2,521,072.54 347,613.23	Direct		2520, 340	163.5 1160.3	1360.5 363.7	✓	✓
Williamsburg Baptist Church Spire 1942	113 769-2	E	2,520,599.46 346,897.30	Direct		2520, 340	91.4 1051.1	1432.6 472.9	✓	✓
Williamsburg Colonial Capitol Clock Tower 1942	113 769-2	E	2,525,596.78 346,573.09	Direct		2520, 340	852.9 1001.7	671.1 522.3	✓	✓
Williamsburg College Stack 1932	114 769-2	E	2,521,110.06 345,563.65	Direct		3520, 340	169.2 847.9	1354.8 676.1	✓	✓
Williamsburg Baiton Parrish Church Spire	113 769-2	E	2,522,829.22 346,439.84	Direct		2520, 340	431.2 981.4	1092.8 542.6	✓	✓
Williamsburg 1932	13 769-2	E	2,511,871.40 342,104.47	2,511,871.40 342,080.59		2520, 340	276.9 317.1	1247.1 4207.0	✓	✓
Williamsburg Lookout Tower 1942	113 769-2	E	2,525,213.00 340,444.00	Direct		2520, 340	794.5 67.7	729.4 1456.3	✓	✓
Capahosic 2 1932	112 769-14	D	2,543,261.19 383,760.23	2,543,194.86 384,227.88		2540, 380	486.9 644.2	1037.1 879.8	✓	✓
Ferry Pt 2 1911	135 524-44	G	2,534,311.23 381,560.47	2,533,806.43 381,581.48		2530, 380	580.1 241.0	943.9 1283.0	✓	✓
Rd crossing at James City Co. line E. bound track	use with station		2,515,502.15 356,722.90	Direct			838.5 1024.6	685.5 499.4	370' 17" 59.4"	760' 43" 39.5"
Used for Radial Plot										

1 FT. = 3048006 METER

COMPUTED BY:

DATE

CHECKED BY:

DATE

M-2388-12

COMPILATION REPORT31. Delineation:

This map was delineated on the Reading Plotter, model B. Photo coverage was complete, but field inspection was lacking in the Camp Peary area north of Williamsburg. Photography taken in the spring of 1948, being the latest available, was used for instrument delineation. Field inspection was dated 1944 and was the most up-to-date available. It was used as a guide during instrument work but was superceded wherever the newer photos revealed changes since the inspection. This explains why the lack of 1944 inspection in the area of Camp Peary was not too detrimental to the resulting manuscript; the area had been built up considerably since that year. No areas in this quad have been left incomplete, but a thorough field edit will be required to bring it up to date.

32. Control:

Horizontal control was considered adequate for the control of the radial plot which included this quad. For details, see the plot report, side-heading 23.

Vertical control for contouring purposes was adequate although additional elevations in special locations would have been useful. Vertical control was furnished as photo-identified points in level lines run along ~~or~~ nearly all roads in the area, with spur lines extended ~~into inaccessible areas within the road network. Refer to the field report on this work beginning on page 7, and to level-line diagram, opposite page.~~

33. Supplemental Data:

- a. Special Reports: None.
- b. Instrument Photos (metal-mounts):
22288, 289, 290, 299, 300, 301, 319, 320, and 321.
- c. Field Inspection Photos:
12889, 890, 891, 912, 913, 914, and 13145.

34. Contours and Drainage:

Instrument photography was suitable for contouring purposes and no areas of questionable contours remain. The photos were exposed in the spring when the majority of the leaves were off the trees permitting maximum vision of the ground. Some coniferous trees did exist in the area but not in large enough groups to prevent contouring thru them. The only drawback to the instrument

photography was in the assembly of the photos themselves; the junctions within each photo were not too well made. This required the use of more correction curves than normal with later and better calibrated photography.

35. Shoreline and Alongshore Details:

The shoreline was indicated on the field inspection photos, and it was used as a guide during instrument delineation. It was out of date at the time of compilation; therefore the work should be revised before publication. No low-water or shoal lines were indicated or delineated.

36. Offshore Details:

Not applicable.

37. Landmarks and Aids:

None were field located. *One Aid to Navigation was located by the Field Editor. Two landmarks were recommended. Chart letter*

38. Control for Future Surveys: *214 (52) copy attached to this Descriptive Report.*

None special.

39. Junctions:

Except on the south border, all match sheets were being made simultaneously with this quad and all junctions were being made to agree during the normal compilation procedure. T-8318 to the south had been mapped previously and did not agree at the junction line. The position of the detail mapped during this compilation is considered very strong. No effort has been made at this time to correct the discrepancy. *Agreement with the Quad to the south is good except for cultural changes which have taken place.*

40. Horizontal and Vertical Accuracy:

This map is believed to meet mapping standards in both respects, the horizontal scale being 1:20,000 and the contour interval being 20 ft.

41. Compilation Procedure:

This quad was compiled somewhat differently from the normal procedure in order to meet special requirements. It was compiled on vinylite as usual, but one model was completed at a time on a separate piece of material and released to the color-separation procedure in order not to delay their beginning their work as soon as possible. For this reason any tiny junction-match discrepancies have necessarily had to be corrected during color separation. Placement of names and contour numbers likewise had had to be made during the later procedure. Further, normal compilation inspection was not performed; in its place a hurried

review was performed on each model between compilation and color-separation inking. During this review bench marks and property lines were added, and a general review was made.

46. Comparison with Existing Maps:

USGS Quad Map "WILLIAMSBURG, VA", 1:62,500, 1906 edition, reprinted 1945.

47. Comparison with Nautical Charts:

YORK RIVER - YORKTOWN TO WEST POINT, No. 495, 1:40,000, August 1931.

48. Geographic Name List:

See separate numbered pages, following.

49. Notes for the Hydrographer:

Not applicable.

50. Compilation Office Review:

Not made.

Submitted by:

William D. Harris
 William D. Harris
 Cartographer-Photogrammetric

Approved and Forwarded by:

Louis J. Reed
 Louis J. Reed, Chief
 Stereoscopic Mapping Section
 Photogrammetric Engineer

MAP T. 8325 PROJECT NO. C.S. 289 SCALE OF MAP 1:20000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD (BACK)		FORWARD (BACK)	FORWARD (BACK)
Williamsburg, Municipal Water Tank	✓ 464 113 769-2	30.828 24.636	37 16 28.303 76 42 32.709	2,521, 072.54 347, 613.23	1849.7 1478.3	436.1 802.9 805.9	163.5 1360.5 1160.3
Williamsburg, Baptist Church Spire	✓ 464 113 769-2	30.828 24.637	37 16 21.314 76 42 38.729	2,520, 599.46 346, 897.30	1849.7 1478.3	328.5 457.1 454.2	91.4 1432.6 472.9
Williamsburg, Colonial Capitol	✓ 464 113 769-2	30.828 24.638	37 16 17.168 76 41 36.990	2,525, 596.78 346, 573.69	1849.7 1478.3	264.6 529.3 455.7	852.9 671.1 522.3
Williamsburg, W & M College stack	✓ 465 114 769-2	30.828 24.639	37 16 08.034 76 42 32.726	2,521, 110.06 345, 563.65	1849.7 1478.4	123.8 403.2 406.4	169.2 1354.8 676.1
Williamsburg, Bruton Parrish Church Spire	✓ 464 113 769-2	30.828 24.638	37 16 16.373 76 42 11.255	2,522, 829.22 346, 439.84	1849.7 1478.3	252.4 504.8 277.3	431.2 1092.8 542.6
Williamsburg, 1932	✓ 27 13 769-2	30.828 24.642	37 15 35.554 76 44 27.799	2,511, 871.40 342, 104.47	1849.7 1478.5	548.0 1096.1 342.5 685.0	276.9 1247.1 317.1 1207.0
Williamsburg, 1932 Sub Sta				2,511, 817.03 342, 080.59			
Williamsburg, Lookout Tower	✓ 465 113 769-2	30.828 24.643	37 15 16.65 76 41 43.19	2,529, 213.00 340, 444.00	1849.7 1478.6	256.6 513.3 532.1 1064.3	794.5 728.4 677 1456.3
Capahosic 2, (VFC)	✓ 459 112 769-14	30.828 24.605	37 22 21.391 76 37 49.380	2,543, 261.19 383, 760.23	1849.7 1476.3	329.8 659.5 607.5 1215.0	595.1 1180.2 130.6 261.3
Capahosic 2, 1932 (VFC) Sub Sta				2,543, 195.17 384, 227.00			486.9 1037.1 644.2 879.8
Ferry Pt 2, 1911	✓ 546 135 524-44	30.828 24.607	37 22 01.383 76 39 40.766	2,534, 311.23 381, 560.47	1849.7 1476.4	21.3 42.6 501.8 1003.1	903.5 1807.1 236.6 473.3
Ferry Pt 2, 1911 Sub Sta.				2,533, 806.43 381, 581.48			580.1 943.9 241.0 1283.0

1 FT. = 3048006 METER
COMPUTED BY:

DATE

CHECKED BY

DATE

M. 2388-12

MAP T. 8325

PROJECT NO. CS-289W1

SCALE OF MAP 20,000

SCALE FACTOR 1:1

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -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)
RA crossing at James City Gap, N.C. E. bound track 176	USGS	Not marked.	37 17 59.40 76 43 39.5	2,515, 502.15 356, 722.90	11 1849.7 1477.7	183.2 92.8	888.5 685.5 1024.6 499.4
Cary field, 1942	460 112 269-2		37 16 25.173 76 42 48.704	30.828 24.637	1849.7 1478.3	388.0 1073.7	388.0 536.8 600.0 139.6
PTS No 1, 1918	USGS		37 15 59.63 76 40 53.35	30.828 24.639	1849.7 1478.4	1938.3 1314.5	919.1 57 657.2 88.0
PTS No 6, 1918	USGS		37 15 06.56 76 39 46.33	30.828 24.645	1849.7 1478.7	202.2 1141.8	101.1 823.7 570.9 168.4
PTS No 11, 1918	USGS		37 15 40.09 76 38 53.18	30.828 24.640	1849.7 1478.5	1235.9 1310.4	617.9 306.9 655.2 84.0
Bigler 4, 1947	VA 788 524-49		37 20 15.291 76 38 37.647	30.828 24.616	1849.7 1477.0	471.4 926.7	235.7 689.1 463.3 275.2
Walter house (New) above Weller, 1911	566		37 19 18.40 76 37 59.96	30.828 24.621	1849.7 1477.3	567.2 1476.3	283.6 641.2 738.1 0.5
Middle Ground Lt			37 21 76 38			1523.2 381.4	
Plotted on Manuscript.							

1 FT. = 3048006 METER

COMPUTED BY
+ plotted

Cook

DATE 9 Nov 51

CHECKED BY
+ checked

Reed

DATE

9 Nov 51

M - 2388-12

T-8325

Geographic Names:

- ✓ Virginia
- ✓ Gloucester County
- ✓ York County
- ✓ James City County
- ✓ Chesapeake and Ohio (Railway)
- ✓ U.S. 60 ✓ Pocahontas Trail
- ✓ State No. 31
- ✓ State No. 5
- ✓ State No. 168
- State Nos. 602, 604, 612, 646
- ✓ U.S. Navy Mine Depot
- ✓ Camp Peary ✓ Naval Training Station
- ✓ Naval Supply Depot ✓ Cheatham Annex
- ✓ Colonial National Historical Park
- ✓ Colonial Parkway
- ✓ King Creek
- ✓ Jones Pond ✓ Matoaka Lake (W. of Williamsburg)
- ✓ Tutters Neck Pond
- ✓ Whittman Swamp
- ✓ Springfield
- ✓ Port Magruder Ruins
- ✓ Williamsburg Battlefield
- ✓ College Creek
- ✓ Williamsburg
- ✓ Jones Pond
- ✓ Hospital Cemetery
- ✓ Williamsburg Cemetery
- ✓ Williamsburg Inn
- ✓ Market Square
- ✓ Capitol
- ✓ Governors Palace
- ✓ William and Mary College
- ✓ Queen Creek
- ✓ Blaine Landing
- ✓ Hawtree Landing
- ✓ Haring Swamp
- ✓ Magruder
- ✓ Bigler Mill
- ✓ Carter Creek
- ✓ Ferry Point
- ✓ Skimino Creek
- ✓ Beaverdam Swamp
- ✓ Newman Pond
- ✓ Wabden Pond
- ✓ Barlows Corner
- ✓ Skimino
- ✓ Oaktree
- ✓ Ewell
- ✓ Long Hill Swamp
- ✓ College Airport (this is official name)
- ✓ William and Mary College Farm ?
- ✓ Chisels Run ✓ Mental
- ✓ Eastern State Hospital
- ✓ Dunbar
- ✓ Sandy Creek
- ✓ St. Johns Church
- ✓ New Quarter Church

Names underlined in red are
approved. 12-13-51

L. Heck

Oak Grove Church ?

FIELD EDIT REPORT
Quadrangle T-8325 (WILLIAMSBURG)
Project CS 289 W-1
H. A. Paton, Chief Of Party

51 METHODS

All roads and trails were ridden or walked over to check their classification, to investigate questioned areas, to classify buildings, to check contours and to check the shoreline and off shore features.

Three elevated water tanks were located and two are recommended for nautical charts. As no boat was available the York River was viewed from near the top of the tanks in lieu of the tanks being viewed from the river. Sextant angles from mapped features were taken to show the portion of the river from which the tanks can be seen. These angles are shown in Notes to Reviewers.

To simplify the review by the Commanding Officer of the area covered by Camp Peary, all planimetric features, that are to be mapped, deleted or changed are shown on one photograph.

Due to their plurality, very few features delineated on the photographs have been cross referenced on the field edit sheet.

In some areas many new features have been built among features mapped from the 1948 photography. In these areas all features, new and old, were delineated on the photographs. This was done to save time making overlays to determine which features were new.

Part of the original survey of Camp Peary was reconstructed and is discussed under item 56 of this report.

Standard plane table profile methods were used for all vertical accuracy tests.

The corporate line monuments of Williamsburg were located using the photo. point method. Where these monuments were found in the woods, a straight line was plunged to the nearest road. These lines did not intersect the roads at points that could be used as photo. points. Therefore, the instrument station and the photo. points are not common. An examination of the pricking cards will clarify the method used in such cases.

52 ADEQUACY OF COMPILATION

The map compilation, with few exceptions, is adequate as compiled from the 1948 photography and will be complete with the application of the field edit data.

53 MAP ACCURACY

No horizontal accuracy test was made in the quadrangle. However, plane table traverses, approximately one mile long, checked well with all mapped features.

Four vertical accuracy tests were made directly on the field edit sheet, testing a combined total of 152 points. No error, greater than one half a contour interval, was found when evaluated from the summaries and abstracts. One test point was allowed for each ridge or bottom with all other points being directly on the contours.

54 RECOMMENDATIONS

None.

55 EXAMINATION OF THE PROOF COPY

Mr. V. D. McManus, Civil Engineer, 108 Washington Street, Williamsburg, Va., has agreed to examine a proof copy of areas not covered by military bases.

Captain Reinburg, Commanding Officer, Camp Peary, Va., requests a proof copy be sent him for examination as a security measure.

Examiners of the proof copy should be informed that the features shown are as of August 20, 1952.

Jones Pond, approximately one mile west of Williamsburg, has been renamed Matoaka Lake. A list of reliable residents, for references, is shown in Notes to Reviewers. 254-LH

56 BOUNDARIES, MONUMENTS AND LINES

From legal information of the boundaries of Camp Peary, seven monuments were recovered and identified. A search for more of the monuments, described in the legal description, was made to no avail. A change in the boundaries of Camp Peary has been made. The new limits can be obtained from the legal information enclosed with the field edit data.

No search was made for any monuments that may mark the boundaries of the Naval Mine Depot. In one questioned area the location of the fence was noted on the discrepancy print, but later information from the Executive Officer revealed that the fence was not the boundary.

56 CONT'D.

The boundaries of James City County have never been surveyed. The county line signs along the roads in some areas are known to be located wrong therefore, they were not identified.

There is no current legal description of the county lines. Reliable information from the County Court Clerk and a Commonwealth Attorney discloses that the original description of the county, when formed in the year 1634, might be found in Hinings Statutes at the library of William and Mary College. However, this would not give the many changes that have been made since that date.

An examination of a legal map of James City County, on file at the Court House in Williamsburg, is the most practical way to determine the accuracy of these lines as shown on the C.&G.S. maps. These lines, with the exception of one small error, appear to be correct. The C.&G.S. map was examined in the field by Mr. E. W. Cowles, Commissioner of Revenue of James City County, and no error was noted except the above mentioned one.

Enclosed copies of correspondence will clarify questions concerning Colonial National Parkway Boundaries.

Respectfully submitted,
October 28, 1952

Elgan T. Jenkins
Elgan T. Jenkins
Carto. Survey Aid

TOPOGRAPHIC MAPPING

Project No. CS 289 W-1 Quad. No. T-8325 Quad. Name WILLIAMSBURG
Method of Testing Plane Table Profile
Tested by E.T.J. Date 7/17/52 Evaluated by E.T.J.
Contour interval 20 ft. 0.6 M.M. allowable shift at 1-20,000
map or manuscript scale.

0 Test points in error over full contour interval

[illegible]

TOPOGRAPHIC MAPPING

Project No. CS 289 W-1 Quad. No. T-8325 Quad. Name WILLIAMSBURG
Method of Testing Plane Table Profile
Tested by E.T.J. Date 7/23/52 Evaluated by E.T.J.
Contour interval 20 ft. 0.6 M.M. allowable shift at 1-20,000
map or manuscript scale.

0 Test points in error over full contour interval

Test Elev.	Map Elev.	Error	Error after shift	Remarks
78	80	2.0	1.0	
85	85	0.0	--	
81	80	1.0	0.0	
63	60	3.0	0.0	
44	40	4.0	0.0	
32	32	0.0	--	
45	40	5.0	0.0	
68	60	8.0	0.0	
63	60	3.0	0.0	
44	40	4.0	0.0	
36	40	4.0	0.0	
58	55	3.0	0.0	
44	40	4.0	0.0	
27	20	7.0	0.0	
17	17	0.0	--	
20	20	0.0	--	
33	40	7.0	0.0	
61	60	1.0	0.0	
59	60	1.0	0.0	
29	32	3.0	0.0	
61	60	1.0	0.0	
72	72	0.0	--	
63	60	3.0	0.0	
42	40	2.0	0.0	
35	37	2.0	0.0	
39	40	1.0	0.0	
59	60	1.0	0.0	
68	77	9.0	8.0	
62	60	2.0	0.0	
75	80	5.0	4.0	
75	81	6.0	5.0	
75	82	7.0	7.0	

TOPOGRAPHIC MAPPING

Project No. CS 289W-1 Quad. No. T-8325 Quad. Name WILLIAMSBURG
Method of Testing Plane Table Profile
Tested by E.T.J. Date 7/14/52 Evaluated by E.T.J.
Contour interval 20 ft. 0.6 M.M. allowable shift at 1-20,000
map or manuscript scale.

100 % of points within $\frac{1}{2}$ contour interval or better

40. Test points correct within $\frac{1}{2}$ contour interval

0 Test points in error between $\frac{1}{2}$ and full contour interval

0 Test points in error over full contour interval

[illegible]

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR CIRCUMVENTS FOR CHARTS

TO BE CHARTED
X2PXBKXEPX

STRIKE OUT ONE

Washington Office — Nov. 19, 1952

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

The positions given have been checked after listing by

C. Theoret.

S. V. Griffith

Chief of Party.

[illegible]

STRIKE OUT ONE

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland

31 October 1952

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

The positions given have been checked after listing by

Chief of Party.

[illegible]

Chart Letter 214 (52)

Review Report T-8325
Topographic Map
25 September 1953

61. General Statement.-This map is one of ^{S/X}~~four~~ topographic quadrangles that were compiled on the Reading Plotter, given a partial review, smooth drafted, and forwarded to the Army Map Service for publication in February 1952. This map was published as a preliminary edition. A final copy of this map manuscript after field edit and review will be forwarded to the Army Map Service so that the preliminary copy can be corrected.

62. Comparison with Registered Topographic Surveys.-

T-685	1:20,000	1857
T-686	"	1857-58
T-685a	"	1911
T-686a	"	1911

This map supersedes these surveys for nautical charting purposes.

63. Comparison with Maps of other Agencies.-

USGS Williamsburg Quad. 1:62,500 1904

Extensive cultural changes have been shown on the map manuscript.

64. Comparison with Contemporary Hydrographic Surveys.-

H-7181	1:10,000	1949
H-7952	"	1952

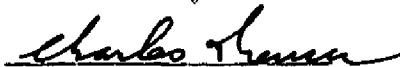
The map manuscript was used as a base for the hydrographic survey covering Queen Creek, H-7952. Hydrography was applied to the map manuscript from H-7181 and older surveys. No discrepancies were noted.

65. Comparison with Nautical Charts.-Two landmarks, recommended in Chart Letter 214 (52), should be added to ~~the~~ Chart. 495

66. Adequacy of Results.-This map conforms with the National Standards of Map Accuracy. See Item 53 of the Field Edit Report for the results of the vertical accuracy tests.

67. Classification.-A copy of the map manuscript was examined by the Commanding Officer of Camp Perry (see attached letter). The deletions that he recommended were made and this map may be published without a security classification.

Reviewed by:


C. Theurer

APPROVED

L. C. Hande

Chief, Review Branch
Div. of Photogrammetry

Max. G. Kellie

Chief, Nautical Chart Branch
Division of Charts

Act. J. B. Bull

Chief, Div. of Photogrammetry

J. B. Bull

Chief, Div. of Coastal Surveys

ARMED FORCES EXPERIMENTAL TRAINING ACTIVITY
CAMP PEARY, WILLIAMSBURG, VIRGINIA

23 April 1953

FROM: C. O. Armed Forces Experimental Training Activity,
Camp Peary,
Williamsburg, Virginia.

TO: The Director,
U. S. Coast and Geodetic Survey,
Washington 25, D. C.

SUBJ: Survey of Camp Peary, Va., and vicinity - Map
Manuscript T-8325, project CS-289.


REF: (a) Your letter No. 78-aal of 31 March 1953, same
subject.

ENCL: (1) Copy of Map Manuscript T-8325.

1. One of the Map Manuscripts T-8325, (Encl. (1)), received with ref. (a) has been marked in red pencil to indicate certain features that it is requested be not shown on the civilian issue of this map.

2. In addition to the above referred to deletions, the boundary of Camp Peary has also been indicated by red pencil. Three (3) marginal notes made on the map in red pencil indicate in each case the change desired.

3. Mr. Elgan T. Jenkins of your Providence Forge, Virginia office was present here when the red pencil markings were made. It is his opinion that the greater part of these markings were made by him on the original draft, and have just not yet been incorporated in the issue received here.


J. E. Reinburg, Jr.
Captain USN

/bbo

Copy to:

Mr. Elgan T. Jenkins,
U.S. Coast and Geodetic Survey,
Box 303,
Providence Forge, Virginia

NAUTICAL CHARTS BRANCH

SURVEY NO. 8325

Record of Application to Charts

[illegible]

M.2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.