

# 8321

ORIGINAL

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Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHICField No. T-8321 named Office No. WESTOVER

## LOCALITY

State VirginiaGeneral locality West of WilliamsburgLocality James River, E of Hopewell, Va.19453

## CHIEF OF PARTY

Field - Capt. K. T. Adams

" - Comdr. F. L. Gallen

~~WASHINGTON OFFICE~~

LIBRARY &amp; ARCHIVES

DATE

MAR 25 1955

B-1870-1 (1)

8321

## DATA RECORD

T- 8321

Quadrangle (II): Westover, 7 $\frac{1}{2}$  Min. ✓

Project No. (II): 289 W-1 ✓

Field Office: Wash. Office Chief of Party: Capt. K.T. Adams

Compilation Office: Washington Chief of Party: Lou Reed  
Stereomapping SectionInstructions dated (II III):  
See field inspection report in  
descriptive report for T-8339Copy filed in Descriptive  
Report No. T-8339 (VI)  
+ Div. of Photog.

Completed survey received in office: 1947

Reported to Nautical Chart Section:

Reviewed: 2 - 25 - 54 Applied to chart No. Date:

Redrafting Completed:

Registered: 15 June 1954

Published:

Compilation Scale: 1:20,000

Published Scale: 1:24000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): MSL

Reference Station (III): Wilson, 1942

Lat.: 37°-17'-50".601

Long.: 77°-13'-57".202

Adjusted ✓  
~~Unadjusted~~

State Plane Coordinates (VI): Virginia State Grid, South

X =

Y =

Military Grid Zone (VI)

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## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
13,031 thru 38 (Field Inspection Photos)(GRAPH I)	31-12-42	3:35	1:20,000	0.23'
18,700 thru 03	29-11-46	1:32	1:20,000	0.56'
18,706 thru 09	29-11-46	1:49	1:20,000	0.65'
18,742 thru 46 (Compilation Photos) (GRAPH II)	29-11-46	3:30	1:20,000	1.41'
22280-22282	1948		"	
22306-22308	"		"	
22310-22312	"		"	

Tide from (III): ~~Field Photos~~: JORDAN POINT HAMPTON ROADS is  
~~Comp. Photos~~: WESTOVER Reference station for both  
 Jordan Pt ~~Field~~: 2.3 feet  
 Mean Range: ~~Comp.~~: 2.4 feet Spring Range: ~~Field~~: 2.9 feet  
 Westover ~~Comp.~~: 2.4 feet ~~Comp.~~: 2.8 feet

Camera: (Kind or source)

U S C &amp; G S 9-lens

Field Inspection by: F.L.Gallen  
 (Vertical control) H.R.Cravat

date: 1944  
 1945-46

Field Edit by: E. T. Jenkins

date: July 27, 1953

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

Projection and Grids ruled by (III) Ruling Machine date: Aug 1947

" " " checked by: T.J.Jansen date: Aug 1947

Control plotted by: Graphic Compilation Section date: Sep 1947  
Norman A. CluffControl checked by: Graphic Compilation Section date: Sep 1947  
Roscoe J. FrenchRadial Plot by: Graphic Compilation Section date: Nov 1947  
Roscoe J. French & Norman A. Cluff

Detailed by: Orvis N. Dalbey on 9-lens plotter date: Dec 1947

Reviewed in compilation office by: None date:

Elevations on Field Edit Sheet  
 checked by:

C. Theurer

date: 2-25-54

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## STATISTICS (III)

Land Area (Sq. Statute Miles): 47 Square Miles

Shoreline (More than 200 meters to opposite shore): About 18 Miles

Shoreline (Less than 200 meters to opposite shore): About 12 Miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 71 Miles

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

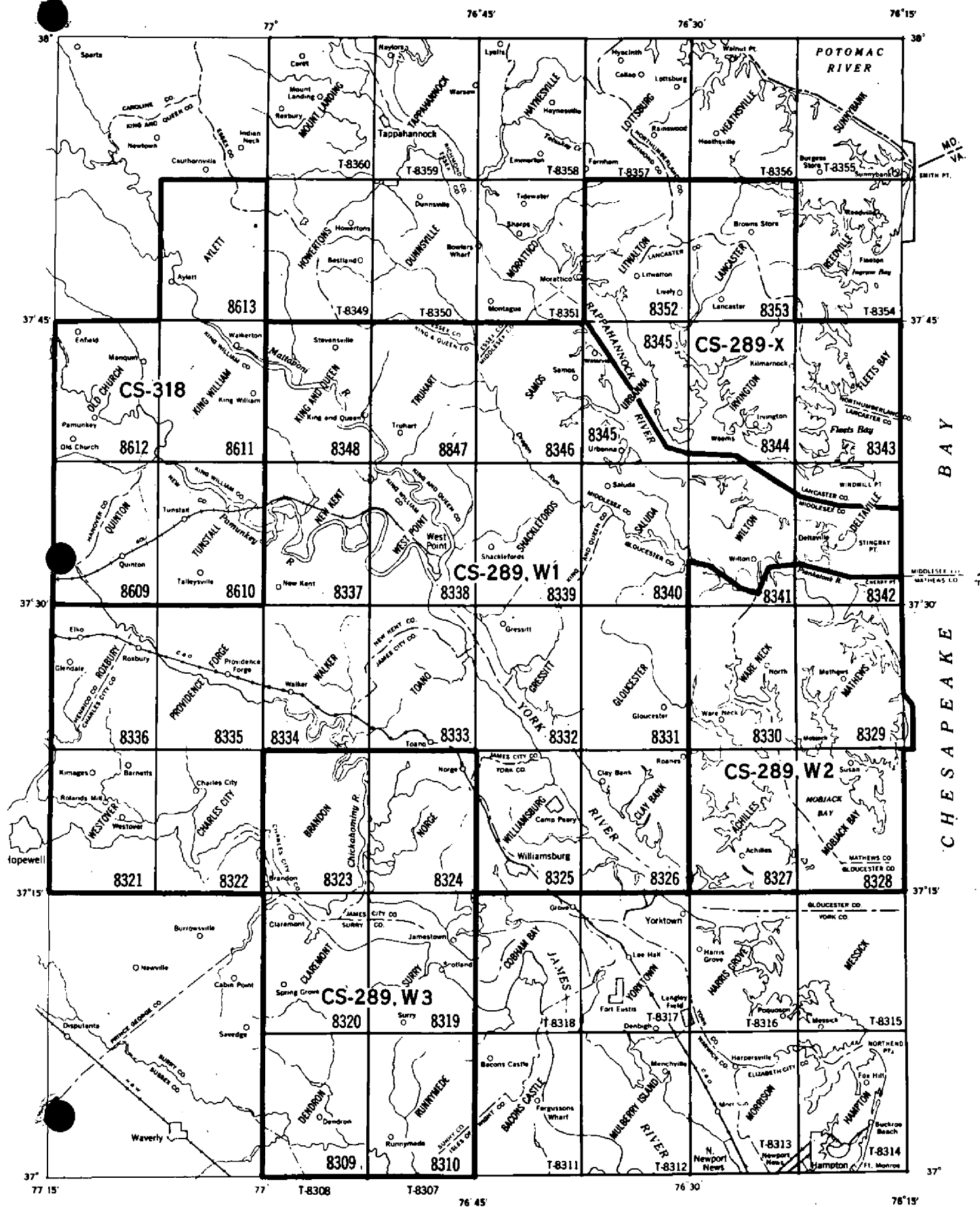
When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:



TOPOGRAPHIC MAPPING PROJECT CS-289-318 (47)

**VIRGINIA, Rappahannock River to James River**



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Summary T- 8321

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-8321 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° 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 8321

Project CS 289 W - 1

Virginia

Harland R Cravat, Chief of Field Party

5. Vertical Control:

Date Started ..... 10-26-45

Date completed ..... 2-1-46

Linear miles 4th order levels ... 68

Linear miles 3rd order levels .... 3

Recovery

Existing vertical control was recovered and pricked in the spring of 1944 by the War Mapping Field Party. No attempt was made to determine the adequacy of the work; it was felt the field edit party would pick up any discrepancies which might exist.

New 3rd order bench marks were pricked as the leveling progressed. New BM's are Q296 and R296.

Photographs

The following 9-lens photographs were used: 13032, 13033, 13035, 13036, and 13038.

Methods

3rd order

About 3 linear miles of 3rd order levels were completed by Mr. Robert R. Kim, engineering aid, using instruments and methods as prescribed by the division of Geodesy.

Permanent bench marks were placed at about one mile intervals along the level line and supplemental spot elevations between. The 3rd order spot elevations are segregated from the 4th order by the code letters and numbers being suffixed by small letter a.

#### 4th Order

About 68 linear miles of 4th order levels were completed by Messers John R. Smith, Engineering Aid, and Thomas W. Merriken Jr., Engineering Aid.

The quadrangle is divided into two regions by the James River. The Area north of the James River was leveled by Wye leveling methods, carrying elevations to the nearest 1/100 of a foot. The area south of the James River was completed by trigonometric methods, carrying elevations to the nearest 1/10 of a foot. The average error of closure was less than 1 foot of error and no level loops were known to exceed the allowable error of closure.

Level information appears on the photos in blue ink. The coded letters W E prefix all spot elevations. The following method was used to distinguish the closed elevations from the unclosed.

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

Submitted with the photos is a layout sheet, showing the approximate position of the spot elevations. Also on the fly leaf of the level volume is the following information: loop (spot elevations), page, closure, field notes checked by, adjustment checked by, inked on photo#, copy checked by and remarks.

Respectfully submitted  
March 13, 1946 by

*John R. Smith*

John R. Smith  
Engineering Aid

Approved on March 22, 1946 by

*Harland R. Cravat*

Harland R. Cravat  
Photogrammetric Engineer

COMPILATION REPORT T-832126. CONTROL:

The following horizontal control stations lie within the area of the radial plot for this quadrangle:

NAME OF STATION	T-SHEET	RAYS	ERROR
EDGEWORTH WRVA E Radio Tower 1941	W of 8336	2 rays	$\frac{1}{2}$ mm S
" " W " " "	"	"	"
MALVERN, 1932 (ss)	"	1 ray	0
SAMARIA, 1932 (ss)	8336		$\frac{1}{2}$ mm SE
Curles Neck Estate, White Grain Mill, SE Gable of Cupola. 1942	W of 8336		0
REEVES, 1932 (ss)	8336		0
Silo, White with Red Top, 1942	W of 8321		0
Turkey Island Silo, 1942	"		0
Water Tank, White w/red Top, 1942	8321		0
Hopewell, Yellow House, NE Chimney, 1942	W of 8321		0
Water Tank, Elevated, #1, 1938	8322		0
" " " #2, "	"		0
House on Bluff, S Gable, 1938	"		0
CHARLES. 1942 (ss)	"		0
Stack #, Tubis Silk Co., 1942	W of 8321		$\frac{1}{2}$ mm S
Taller Stack, Hopwell Hummull Ross Co., 1942	"		"
WILSON 1942 (ss)	8321		0
W Gable, Fishing Shack, Harrison Landing, 1942	"		0
Front Range Light, Jordan Pt, 1938	"		$\frac{1}{2}$ mm SW
Black Water Tank, Coggins Pt, 1942	"		0
Flag on Pole, Westover Dock, 1942	"		0
J.C.Q. (USE), 1938 (ss)	8322		0
IRVING, 1932 (ss)	8321		0
WARTHAM, 1932 (ss)	S of 8321	2 rays	0
City Point Light, 1938, r-1942	W of 8321		$\frac{1}{2}$ mm SE
MINTREE, 1934 (ss)	8335	1 ray	0
NW Gable, Farmhouse on Wharf, Upper Brandon, 1938	8322	2 rays	0
Square Brick Stack, Sturgeon Pt., 1938	8322	1 ray	0
COPELAND, 1938 (ss)	"		$\frac{1}{2}$ mm NW
Light, Bailey Creek	8321		$\frac{1}{2}$ mm SW
Chimney, E Gable, House, Maycock's Pt.	"		1mm S

The above list shows that only nine of the control stations fall within the limits of the quadrangle. The balance are in neighboring areas and were considered necessary to produce a sufficiently strong radial plot. Holding qualities of each point are also indicated above.

Special field parties furnished elevations, spirit levels and trigonometric levels. They were spotted and labeled on field photos. The level lines followed out the road system on both the north and south sides of the James River which crosses the quadrangle from West to East. Elevations were established at half-mile intervals, or closer. In general, this method produced sufficient elevations to control contour compilation. However, slight difficulty was found in two separate areas where poor photo junctions caused a problem in datum determination. The contours in these two questionable areas were dash-lined and must be investigated during field edit. Considering this quadrangle as a whole, and for future reference, more than twice as many elevations were furnished as would be required were 9-lens photographs of uniform datum available for use.

*See Review Report.*

27. RADIAL PLOT

This quadrangle was not plotted in conjunction with other sheets. However, the plot was somewhat extended for strength into the areas of T-8322, T-8335, and T-8336, which are to be radial-lined at a future date by extension of this plot. Therefore, there were no sheet junctions to be matched.

The plot was laid on 1:20,000 scale base grids, two in number, ruled on vinylite. The projection was Lambert, Virginia State Grid.

9-lens photographs, metal-mounted, were used, vinylite templates made from these pictures actually going into the construction of the plot.

For a detailed description of methods used in laying this plot, see "Descriptive Report" for quadrangle T-8339.

A former plot was made for this area using 1942 photographs 13,024 thru 13,039, but was discarded after unsatisfactory results were encountered in the compilation based thereon.

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28. DETAILING:

Planimetry and contours were compiled on 9-lens plotter no.1 from rectified metal-mounted prints of the original photographs used in laying the plot. Shoreline detail, woodland types, and boundaries, were guided by field inspection photographs. The field inspection was satisfactory except for a small area where field inspection was incomplete and is to be completed by the field editor. The photographs of one flight appeared hazy, probably due to the lateness in the day of their exposure. *Completed by Field Editor*

29. SUPPLEMENTAL DATA:

The shoreline was transferred to the map manuscript from Shoreline Sheets T-8086 and T-8087 (1:10,000 scale). The shoreline was also compiled at 1:20,000 and the two compared favorably for the most part; in short distances where there was a difference greater than  $\frac{1}{2}$  mm, the original shoreline at 1:10,000 was accepted with the discrepancies noted for investigation by the field editor and reviewer.

Shoreline areas were field inspected at two different times on two different sets of photographs (1:10,000 and 20,000 scale) for the two separate compilations. Judgment was used in transferring conflicting data to the map manuscript.

30. MEAN-HIGH-WATER LINE:

Traced from 1:20,000 film positive reductions of T-8086 and T-8087.

31. LOW-WATER and SHOAL LINES:

Delineated from 1:20,000 field inspection photographs taken at time of high tide. *Corrected by 1948 photography.*

32. POLITICAL BOUNDARIES:

The field inspection of boundaries was not complete and has been supplemented by 1945 county maps of Prince George and Charles City Counties. ~~The line separating the two counties follows the main channel of the James River and was delineated by the compiler using charts numbered 530 and 531.~~

The Magisterial Districts were delineated from the same two county maps mentioned above.

The boundaries of the Harrison Lake, Virginia, U.S. Fish Hatchery were delineated on the map manuscript from a 1:2400 scale print of Harrison Lake published by the U.S. Dept. of the Interior, Fish and Wild Life Service, dated 6-29-42.

*No descriptions of the county boundaries is available.  
Boundary shown in center line of river.*

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Manuscript compared satisfactorily with USGS 15-minute quadrangle sheet "Charles City", dated 1918; reprinted in 1944. Considerable minor changes and added cultural features were noted. *See Review Report.*

45. COMPARISON WITH NAUTICAL CHARTS:

*See Review Report*

7  
Louis J. Reed  
Stereoscopic Mapping  
Section



POSITIONS OF STATIONS THAT  
WERE USED ON R. PLOT.

MAP T. 8321

PROJECT NO. 282-441

SCALE OF MAP 1:20,000

SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM-CORRECTION VALUE OF "/>	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS <del>FORWARD</del> (BACK)
REEVES	G-1553	North Am 1927	37° 22' 46" 861	North of Road		1444.63 425.07	1849.70 ✓
1932 d.M.	P. 27		77° 10' 00" 243		24.603	5.97 1470.23	1476.20 ✓
Sub. Sta.	Book 4	"	37° 22' 47" 16	11		1453.85 395.85	1849.70 ✓
REEVES	off. comp.	"	77° 09' 59" 73		24.602	1469.48 6.72	1476.20 ✓
WILSON	G-5583	"	37° 17' 58" 601			1559.93 289.74	1849.67 ✓
1942 d.M.	P. 522		77° 13' 57" 202		24.630	1408.88 68.87	1477.75 ✓
Sub. Sta.	Book 4		37° 17' 48" 36			1490.84 358.83	1849.67 ✓
WILSON	off. comp.		77° 13' 57" 39		24.630	1413.52 64.23	1477.75 ✓
IRVING	G-1553		37° 15' 40" 314			1242.80 606.86	1849.66 ✓
1932 d.M.	P. 27		77° 13' 42" 065		24.641	1036.52 441.98	1478.50 ✓
Sub. Sta.	Book 3		37° 15' 40" 823			1258.49 591.17	1849.66 ✓
IRVING	off. comp.		77° 13' 42" 505		24.641	1057.42 421.68	1478.50 ✓
WESTOVER DOCK FLAG ON POLE	G-5583	"	37° 18' 34" 573	Name Changed - Westover House SE Pole		1063.97 785.71	1849.68 ✓
1942 d.	P. 524		77° 08' 53" 428		24.626	1315.72 161.83	1477.55 ✓
BAYLEY CREEK LIGHT	G-5583		37° 18' 23" 843	New James River		735.03 1114.65	1849.68 ✓
1938 & 1942 d.	P. 526	"	77° 14' 36" 377	Light 109		895.86 581.69	1477.55 ✓
MAYCOCK'S POINT House E. Gable, chimney	G-5583		37° 17' 57" 30	Lost		1766.44 83.24	1849.68 ✓
1942 d.	P. 524		77° 08' 52" 145		24.629	1291.79 185.91	1477.70 ✓
WATER TANK, WHITE, WITH RED TOP	G-6042		37° 21' 21" 043			648.71 1200.98	1849.69 ✓
1942	P. 675		77° 14' 59" 757		24.610	1470.62 6.03	1476.65 ✓
HARRISON'S LANDING FISHING SHACK, W. GABLE	G-5583		37° 18' 51" 76			1595.66 254.02	1849.68 ✓
1942 d.	P. 525		77° 11' 09" 76		24.624	240.33 1237.07	1477.40 ✓
JORDAN POINT FRONT RANGEE (LIGHT)	G-5585		37° 18' 30" 677			945.71 903.97	1849.68 ✓
1938 & 1942 d.	P-525		77° 11' 26" 838		24.626	660.91 816.64	1477.55 ✓

1 FT. = 3048006 METER

COMPUTED BY: 22AB

DATE May 10, 1948

CHECKED BY: 0001.19

DATE 5-11-48

M-2388-12

12



SCALE FACTOR.....1.0

1.0

[illegible]

DATE 5-11-48

M-2388-12

12-11



POSITIONS OF STATIONS THAT WERE  
NOT USED BUT PLOTTED ON THE T-8321

MAP T-8321 PROJECT NO. 289-W1 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		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)	
Richmond YMCA. Bldg South chimney, 1942	G-5583	✓	37° 19'	32.55"	✓ ok			1003.5	846.18	1849.68 ✓
	P-525		77° 12'	20.39				502.0	975.25	1477.25 ✓
JORDAN Point PEAR RANGE (light) 1942	"	✓	37° 18'	46.402	✓ ok			1430.5	419.18	1849.68 ✓
VAN 2	G-5583	✓	77° 13'	25.438				626.4	851.05	1477.45 ✓
1942 d.m.	P-523		37° 17'	48.249	✓ ok			1487.4	362.28	1849.68 ✓
MAJOR	G-5583	✓	77° 14'	38.096				938.3	539.15	1477.8 ✓
1910, x 1938, 1942 d.m.	P-523		37° 19'	28.406	✓ ok			875.7	973.98	1849.68 ✓
WESTOVER, red dwelling (nearby, southern) chimney, 1942 d.i.	"	✓	77° 13'	29.510				726.6	750.65	1477.25 ✓
MAJOR 2	G-5583	✓	37° 18'	40.74	✓ ok			1255.9	593.78	1849.68 ✓
1942 d.m.	P-522		77° 09'	08.40				206.9	1270.6	1477.5 ✓
OVER	"	✓	37° 19'	28.978	✓ ok			893.3	956.38	1849.68 ✓
1810, x 1942 d.m.	"		77° 13'	28.455				700.6	776.65	1477.25 ✓
RIVER 2	"	✓	37° 18'	36.355	✓ ok			1120.8	728.88	1849.68 ✓
1942 d.m.	"	✓	77° 08'	52.323				1288.5	189.05	1477.55 ✓
JORDAN	"	✓	37° 17'	06.131	✓ ok			189.0	1660.67	1849.67 ✓
1910, x 1938, 1942	"		77° 11'	18.545				456.8	1021.3	1478.1 ✓
EPPES	"	✓	37° 18'	46.698	✓ ok			1439.6	410.08	1849.68 ✓
1910, x 1942 d.m.	"	✓	77° 13'	25.493				627.8	849.65	1477.45 ✓
BUCK 2	G-5583	✓	37° 19'	21.580	✓ ok			665.3	1184.38	1849.68 ✓
1942 d.m.	521		77° 14'	17.085				420.6	1056.7	1477.3 ✓
OVER 2	"	✓	37° 18'	33.576	✓ ok			1035.1	814.88	1849.68 ✓
1942 d.m.	"		77° 07'	50.013				1231.6	2459.5	1477.55 ✓
1942 d.m.	"	✓	37° 18'	36.622	✓ ok			1129.0	720.68	1849.68 ✓
			77° 08'	45.631				1123.7	353.85	1477.55 ✓

1 FT. = 3048006 METER  
COMPUTED BY

CHECKED BY: O.N.B.

DATE

DATE 4-11-48

M. 2388-12

14



MAP T

PROJECT NO

SCALE OF MAP

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\nu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927-DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						FORWARD	(BACK)	
JORDAN POINT BEACH	6-7446		37° 18' 42".684	✓ <b>LOST</b>		1315.9	533.78	1849.68 ✓
1938	d. P. 765		77° 12' 57".309	✓ <b>(NO 327 SUPPLEMENT)</b>		1411.2	662.5	1477.45 ✓
NORTH FLATS FRONT RANGE BEACON	G 7446		37° 19' 12".369	✓ <b>LOST</b>		381.3	1468.38	1849.68 ✓
1938	d. P. 765		77° 13' 09".693	✓ <b>(NO 327 SUPPLEMENT)</b>		238.7	1238.65	1477.35 ✓
NORTH FLATS, REAR RANGE BEACON	G 7446		37° 19' 22".518	✓ <b>LOST</b>		694.2	1155.48	1849.68 ✓
1938	d. P. 765		77° 12' 49".402	✓ <b>(NO 327 SUPPLEMENT)</b>		1216.3	261.0	1477.3 ✓
HARRISON (BERKLEY) HOUSE, W. CHIMNEY	G 7446		37° 19' 01".585	✓ <b>SEE BERKLEY HOUSE, W. CHIMNEY 1938, 1942</b>		48.9	1800.78	1849.68 ✓
1871, 1938, 1942	d. P. 765		77° 10' 51".249	✓		1261.9	215.5	1477.4 ✓
J.C.F. (U.S.F.) 1942	d. P. 5583		37° 17' 55".908	✓ <b>Not Plotted -</b>		1723.5	126.18	1849.68 ✓
RIVER	"		77° 09' 52".637	✓ <b>Near Cogging 2</b>		1296.4	18135	1477.75 ✓
1919, 1942 (d.m.)	"		37° 17' 06".351	✓ <b>ok</b>		195.8	165387	1849.67 ✓
HARRISON (U.S.F.) 1942	d.m. I.		77° 11' 19".361	✓ <b>ok</b>		476.9	1001.2	1478.1 ✓
ABANDONED BEACON	G 5583		37° 18' 47".279	✓ <b>ok</b>		1457.2	392.18	1849.68 ✓
NEAR STATION RUIN 1942	d. P. 524		77° 10' 50".004	✓ <b>LOST</b>		1231.3	246.15	1477.45 ✓
HERRING CREEK SNAG NEAR MOUTH 1942	d. P. 5583		37° 17' 55".174	✓ <b>LOST</b>		1700.9	148.78	1849.68 ✓
TIN WAREHOUSE SOUTH GABLE 1942	d. P. 524		77° 07' 54".206	✓ <b>LOST</b>		1335.0	142.75	1477.75 ✓
J.C.G. (U.S.F.) 1942	d. P. 5583		37° 18' 28".066	✓ <b>ok</b>		865.2	984.48	1849.68 ✓
BERKLEY HOUSE 1871, 1938, 1942	d. P. 524		77° 08' 05".662	✓ <b>ok</b>		139.4	1338.15	1477.55 ✓
J.C.G. (U.S.F.) 1942	d. P. 524		37° 18' 37".076	✓ <b>Not Plotted - Near West 2</b>		1143.0	706.68	1849.68 ✓
BERKLEY HOUSE 1871, 1938, 1942	d. P. 524		77° 09' 41".490	✓ <b>Not Plotted - Near West 2</b>		1021.7	455.85	1477.55 ✓
J.C.G. (U.S.F.) 1942	d. P. 524		37° 18' 35".421	✓ <b>Not Plotted - Near West 2</b>		1092.0	757.68	1849.68 ✓
BERKLEY HOUSE 1871, 1938, 1942	d. P. 524		77° 09' 45".784	✓ <b>Not Plotted - Near West 2</b>		1127.4	350.15	1477.55 ✓
J.C.G. (U.S.F.) 1942	d. P. 524		37° 19' 06".58	✓ <b>Not Plotted - Near West 2</b>		48.7	1800.98	1849.68 ✓
BERKLEY HOUSE 1871, 1938, 1942	d. P. 524		77° 10' 51".26	✓ <b>Not Plotted - Near West 2</b>		1262.2	215.2	1477.4 ✓

1 FT. = 3048006 METER

COMPUTED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CHECKED BY: O.M.O.

DATE: 5-11-48

M. 2388.12

15



SCALE FACTOR

1 FT. = .3048006 METER	COMPUTED BY: .....	DATE .....	CHECKED BY: <i>OMG</i>	DATE <i>5-11-48</i>	M. 2388-12 <i>16</i>
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## GEOGRAPHIC NAMES

Survey No. T-8321

WESTOVER, Va, 7 $\frac{1}{2}$ ' quad.

1

Name on Survey

On Chart  
No.On previous survey  
No.On U. S. quadrangle  
MapsFrom local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

17

	A	B	C	D	E	F	G	H	K	
Virginia ✓									USGB	1
James River ✓									"	2
Charles City County ✓		Tyler District								3
		Harrison District								4
Chesterfield County ✓		Bermuda District								5
Prince George County ✓		Brandon District								6
		Blackwater District								7
		Bland District								8
North side of river:										9
Bucklers Point ✓										10
Buckland Creek ✓		(a section of it)								11
Herring Creek ✓										12
Ducking Stool Point ✓										13
Westover										14
Berkeley									USGB	15
Harrisons Landing ✓		(locality rather than actual landing)								16
Kimages Creek										17
Harrison Point ✓										18
Hopewell-Charles City Ferry ✓										19
Eppes Island									USGB	20
Eppes Creek									"	21
Turkey Island									"	22
<del>Hall</del> Hardens ✓									#	23
<del>Hogans Wharf</del>		(locality rather than present wharf)								24
Virginia No. 5 ✓		<del>River Road</del> (John Tyler Mem. Hwy.)								25
Wayside School										26
Pipentree Road										27

## GEOGRAPHIC NAMES

Survey No. T-8321

18

2 Name on Survey

On Chart  
No.On previous survey  
No.On U. S. quadrangle  
MapsFrom local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

A

B

C

D

E

F

G

H

K

Charles Lake

Old Hyde Road

~~Ripentree Road~~ ✓

1

Kimages

Westover Church &amp; Cem. ✓

2

Harrison Lake

Evelington Plantation ✓

West Run

~~Charles City County's~~

East Run

~~Prince George County's~~

New Vine Church

~~Hopewell Church City Ferry Stop~~

Rolands Mill

(locality name)

~~Powell Creek Church~~ ✓

7

Kimages Hill

~~Kimages Creek~~ ✓

8

Westover Road

John Tyler Memorial Highway ✓

Barnetts Road

(13 &amp; 5)

10

Barnetts

Kimages School ✓

11

Road No. 608, 605, 601

12

U.S. Bureau of Fisheries

13

~~South of River~~

14

Maycocks Point

15

Blairs

16

Blairs Road

17

Nobles Swamp

18

Walls Run

19

Powell Creek

20

Elbank Point

21

Coggins Point

22

Coggins Point Road

23

Beechwood

24

River View

25

Tar Bay

26

River Road

(Va. No. 10 in part)

27

M 234

# GEOGRAPHIC NAMES

Survey No. T-8321

19

3 Name on Survey

On Chart No. A  
On previous survey No. B  
On U. S. quadrangle Maps C  
From local information D  
On local Maps E  
P. O. Guide or Map F  
Rand McNally Atlas G  
U. S. Light List H  
K

Merchant Hope School	Church									1
Harrison Grove School	Church									2
Geo										3
Chappell Creek					Powell Creek Church					4
Beaver Castle Road					Hopewell-Charles City Ferry Slip					5
Jenny Creek										6
Indian Point										7
Jordan Point									USGB	8
Hopewell Airport	Airfield									9
Ferry Road	(part of No. 36)									10
Billy Creek										11
Virginia No. 10	36, 64									12
										13
										14
										15
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										27

Names underlined in red are approved. 12/22/48 L. Heck  
Checked and approved 2-24-54 agw



FIELD EDIT REPORT  
Quadrangle T-83211 (Westover)  
Project CS-289  
J. C. Sammons, Chief of Party

51. METHODS -- The quadrangle was inspected by riding over all roads to check their classification, to classify buildings, to examine questioned areas and to visually check contours and planimetry..

All additions, corrections and deletions have been made on the field edit sheet or cross referenced to the photographs. Red ink was used for additions and corrections, green ink was used for deletions and violet ink was used to indicate points of elevations used for vertical accuracy testing. No legend is shown on the field edit sheet or photographs..

Six drains were checked for vertical accuracy. The top of the slopes of this drainage was located by plane table for horizontal position and vertical accuracy. The bottom elevation of five of these drains were double checked by hand level. As the slope of these five drains were generally uniform and so steep no attempt was made to check the intermediate contours as there is little possibility of their being much in error. No contours in the areas tested, were found to have an error exceeding  $\frac{1}{2}$  a contour interval.

Field edit information is shown on one double weight matte print, one discrepancy print and three nine lens 1:20,000 scale photographs numbered 22307 (2 parts), 22308 and 22311.

52. ADEQUACY OF COMPILATION -- The map compilation is near adequate and will be complete with the application of the field edit data..

53. MAP ACCURACY -- The horizontal positions of the mapped details appear to be good. Plane table traverses in several areas checked well with all shown features.

The vertical accuracy, in areas tested, was found to be good and no summary and abstract of vertical accuracy testing is being submitted.

54. RECOMMENDATIONS -- None.

55. EXAMINATION OF PROOF COPY -- No one was requested to examine a proof copy of this map.

The body of water just north of the Richmond Y.M.C.A. building is now referred to as "Charles Lake". It is recommended that the name "Kimages Creek" be moved to that part of the creek north of Va. Route #5.

New road signs along Va. Route #5 designate the road as being the "John Tyler Memorial Hi-way".

The name "Haxall" shown in the extreme N.W. corner of the quadrangle should be deleted. A check with residents of the area discloses that the name was once applicable but the area is now known as Hardens.

No other name discrepancies were found.

Respectfully submitted,  
27 July 1953

*Elgan T. Jenkins*  
Elgan T. Jenkins,  
Cartographic Survey Aid

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**TO BE CHARTED**  
**~~TO BE DELETED~~**

**STRIKE OUT ONE**

Providence Forge, Va. 27 July 1953

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

The positions given have been checked after listing by

J. Steinberg

[illegible]

~~TO BE DELETED~~

The positions given have been checked after listing by

J. Steinberg

[illegible]

Review Report T-8321  
Topographic Map  
February 25, 1954

61. General Statement.-T-8321 is one of three quadrangles in the uncompleted part of CS-289-W2, that were compiled in 1947 from 1946 photographs. Extensive changes were necessary during field edit and review, using 1948 photographs, to correct the map manuscript and revise it to 1953. Many changes in symbolization were required since the compilation was completed before the issuance of the Topographic Manual.

62. Comparison with Registered Topographic Surveys.-

T-431	1:10,000	1853
T-1391b	1:20,000	1875
T-3219	"	1910
T-8086	1:10,000	1943
T-8087	"	1943

This map supersedes these surveys for nautical charting purposes. See paragraph 29 of the Compilation Report concerning the shoreline.

63. Comparison with maps of other agencies.-

USGS Charles City Quad 1:62,500 1918

The principal cultural changes noted are the formation of Charles and Harrison Lakes, the construction of the Hopewell Airfield and the operation of the Hopewell-Charles City Ferry.

64. Comparison with Contemporary Hydrographic Surveys.-

H-7611	1:10,000	1948
H-7612	"	"

Stumps and snags shown alongshore on the hydrographic surveys are not visible on the photographs.

Extensive mud flat areas north of Tar Bay are not visible on the photographs.

65. Comparison with Nautical Charts.-

Chart 530	1:40,000	1940
" 531	1:20,000,	1947

Landmark "Chy", on Maycocks Point should be deleted. Landmark, "N. Gab.", on Jordan Point should be changed to "S. Gab.". See Chart Letter 270(53).



66. Adequacy of Results.-This map complies with the National Standards of Map Accuracy. The areas of dashed contours mentioned in Item 26 of the Compilation Report, were field checked and proved to be within the accuracy requirements.

67. Junctions.-Junctions have been made to the quadrangles of this project that join the map manuscript to the north and east. Junctions were also made to U. S. Army quadrangles, 1:24,000, mapped in 1943, on the south and west.

Reviewed by:

Charles Theurer  
C. Theurer

APPROVED

L. C. Landy 1 Feb 1955  
Chief, Review Branch  
Div. of Photogrammetry

W. E. McManister  
Chief, Nautical Chart Branch  
Div. of Charts 670

Max Skukitts  
Chief, Div. of Photogrammetry

Earl O. Heston B  
Chief, Div. of Coastal Surveys

*see report T 8319 for statement on  
application of hydrography*