

3773

Topo.  
3773

Form 504  
 DEPARTMENT OF COMMERCE  
 U. S. COAST AND GEODETIC SURVEY

State: *Virginia.*

11-5613

DESCRIPTIVE REPORT.

Topo. Sheet No. *3773*

LOCALITY:

*Hampton Roads*

1919

CHIEF OF PARTY:

*Potter, L. A.*

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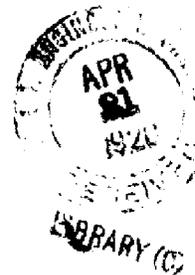
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*Revised*

Topographic Sheet 3773

Hampton Roads, Va.

Surveyed by L. A. Potter in 1919.



The streets of Norfolk appear to have been taken from maps. Comparison in the office with other reliable maps shows discrepancies. The facilities in the office for utilization of outside surveys and maps are generally superior to those possessed by our field parties. The procedure outlined in par. 6 of the instructions for this work is believed to be the best plan to follow in using outside surveys.

Comparison with other C.&G. S.-surveys and U. S. Engineers surveys show that the waterfront north of Town Pt. and also that at Pinner Pt. are in error. As the method of making the surveys at these points is not known (no descriptive report having been submitted) the reason for the error is not known.

The inking of the sheet is well and neatly done.

With the exceptions noted the survey is in accordance with the instructions and should be approved.

*E. P. Ellis*

April 19, 1920.

Topographic Sheet 5774

Hampton Roads, Va.

Surveyed by L. A. Potter in 1919.

No descriptive report was submitted with the sheet.

The location of the two piers at Pinner Pt. does not check with that of sheet 5775 surveyed by the same party. As the method of making the survey at this point is not known, the reason for the discrepancy cannot be stated.

The inking of the sheet is well and neatly done.

The survey is in accordance with the instructions and should be approved.

*E. P. Ellis*

April 20, 1920.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3773

State . **Virginia** . . . . .

General locality . . **Hampton Roads** . . . . .

Locality *Norfolk to Sewall Pt. & Vicinity.*  
~~Eastern side of Hampton Roads & Elizabeth River.~~ . . . . .

Chief of party **L. A. Pether, Jr. R. & G. Eng.** . . . . .

Surveyed by **P. A. Perrin, J. W. Cox.** . . . . .

Date of survey **April-August, 1919.** . . . . .

Scale **1:10000.** . . . . .

Heights in feet above . . . . .

Contour interval . . . . . feet.

Inked by **P. A. P., J. W. C.** Lettered by **P. A. P., J. W. C.** . . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet **Blueprints Nos. 1 to 6, titled as follows:**

- No. 1. Plan of development at Army Depot South of Lambert's Point.**
- No. 2. U. S. Naval Training Station.**
- No. 3. Plan of Army Supply Base.**
- No. 4. U. S. Naval Operating Base.**
- No. 5. Railroad Yards, Virginian Railway at Sewalls Point.**
- No. 6. Map of City of Norfolk and Vicinity.**

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C. & G. SURVEY  
L. & A.  
DEC 28 1919  
Date Recd

Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: *Virginia*

11-5813

DESCRIPTIVE REPORT.

Topo Sheet No. *3773<sup>a</sup>*

LOCALITY:

*Norfolk Harbor*

*Elizabeth River*

1919

CHIEF OF PARTY:

*Seraul, H. A.*

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DESCRIPTIVE REPORT

Topo. Sheet No. 3773<sup>a</sup>

The connection of Topo. Sheet No. 3773 and Sheet No. 3774 at Pinnars Pt., Norfolk, Va. and the shapes and azimuths of three slips in Norfolk on Topo. Sheet No. 3773 were to be investigated. A tracing on vellum was made from Sheet No. 3773 of the necessary triangulations points and the shoreline in question. Tracings of Topo. Sheet No. 3774 and sheet No. 3249 and of U.S. Engrs. 1913 survey of the shoreline were furnished.

At Pinnars Pt. a traverse was run from Tank # 2 to point "C" on the railroad wharf opposite Hospital Point. Cuts taken on Tank #1 from the point "C" and the preceeding station on the traverse served as a check on the correct location of "C". The end of this wharf as located by the traverse agrees with the end of the wharf as given by Topo. Sheet No. 3773 and U.S. Engrs. 1913 survey, which fact serves as an additional check.

Three point positions along the wharves at "A", "B", and "C" do not check with the traverse by the distances shown; corners of wharves in red were located by three point method. It is thought that the differences between the three point positions and the traverse are due to distortion of the tracing used in transferring the triangulation points. There was poor coordination between different sets of signals in getting the three point locations. The location of the wharves at Pinnars Pt. by the traverse check very well with the U.S. Engrs. 1913 survey. Also, it checks the more essential details in the tracing of Topo. Sheet No. 3774.

Point "D" on the corner of the wharf near the slips in question was found to be identical on Topo. Sheet No. 3249 and No. 3773 and U.S. Engrs. 1913 survey. Starting at this point and orienting on Tank #1 a traverse was run to get the azimuths and shapes of the slips. In the tracing of Topo. Sheet No. 3773, besides the disagreement with the azimuth of the slips, the location of Main Street and the street at right angles to it running south do not check. Main Street has a slight bend in it just before passing the triangulation station Bank. The shapes and azimuths of the slips check fairly well with the U.S. Engrs. 1913 survey and Topo. Sheet No. 3249 by Boutelle.

Approval  
Har. Jernan  
Chief of Party

Payson A. Perrin

PAYSON A. PERRIN  
Jr. H&G Engineer.

Topographic Sheet 3773<sup>a</sup>

Elizabeth River, Va.

Surveyed by H. A. Seran in 1920.

This survey was made to clear up apparent errors in the waterfront of Elizabeth River in the places shown.

As stated in the descriptive report the wharf line in black northwest of the Naval Hospital is a traverse based on Tank #1 and Tank #2.

The wharf corners in red were located by the three-point method using objects which should give good conditions, whereas the tanks used on the traverse would be likely to introduce errors owing to the difficulty of observing accurately on the centers when the distances are only 300 or 400 meters. A mean of the black and red locations, therefore, should be taken as the true locations.

The descriptive report submitted indicates that the projection and points were taken from the tracings furnished by the office, without constructing a new projection from the tables. Distortion (horiz. shrinkage 0.6%, vert. shrinkage 1.2%) was thereby introduced which probably accounts for the poor coordination of signals mentioned in the descriptive report.

AS a mean of the two locations is, without doubt, sufficiently correct, the sheet should be approved.

*E. P. Ellis*

April 19, 1920.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3773<sup>a</sup>

State . Virginia . . . . .

General locality . Elizabeth River . . . . .

Locality . Norfolk Harbor . . . . .

Chief of party . H.A. Seran . . . . .

Surveyed by . P.A. Perrin . . . . .

Date of survey . December 1919 . . . . .

Scale . . 1:10000 . . . . .

Heights in feet above . . . . .

Contour interval . . . . . feet.

Inked by P.A.P. . . . . . Lettered by P.A.P. . . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet Tracings of recent available surveys.

Remarks: This sheet was made in connection with the revision of certain wharves in Norfolk Harbor on Topographic Sheet No. 3773.

SEP 28

Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: *Virginia*

21-5613

DESCRIPTIVE REPORT.

*Topo.* Sheet No. *3773*

LOCALITY:

*Hampton Roads and  
Elizabeth River, from  
Sewalls Pt. to Eastern*

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CHIEF OF PARTY:

3773

POST-OFFICE ADDRESS: C. & G. Survey Str. "Onward", Hampton, Va.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET No. ~~-----~~ and ~~-----~~

1. This sheet covers the eastern side of Hampton Roads and Elizabeth River, from Sewalls Point to the Eastern Branch of Elizabeth River at Norfolk, and a section on the western side of Elizabeth River in the vicinity of Norfolk. It was done under orders dated Nov. 14, 1918.

2. The methods of executing the survey were the usual methods, a combination of the three method and traverse, there being few stations that could be occupied, but many prominent objects, such as church spires, chimneys, etc.

3. Changes were found over the entire area covered, but the most extensive changes were found at the Naval Base at Sewalls Point, at the Naval Training Station adjoining it on the East, at the Army Supply Base on the North of Tanners Creek, and at the Army Base just southwest of Lamberts Point.

4. Naval Base. The outlines of the Naval Base and the main streets were done in the field, and the details filled in from a blueprint. The street system and wharves are said to be practically completed, except for minor changes, and the details shown on the sheet can, in my opinion, be safely charted.

5. Naval Training Station. The details shown on the sheet were transferred from a blueprint after obtaining control, and going over the ground to determine what part had actually been done, and represents the condition at the time of survey, but work is still in progress, and extensive additions will be made.

6. Army Supply Base. The buildings and railroad tracks were filled in from a blueprint; and the remainder was done in the field. This project has, I think, been completed.

7. Norfolk. The shore line, and the streets adjoining the water front, were done in the field, and some additional details filled in from a city map. The city map is being forwarded with the sheet. The wharf line and many of the railroad tracks are not shown, with sufficient accuracy for charting purposes, but the map can be used for filling in the street system back of the water front.

8. Lamberts Point. The railroad tracks were not filled in on the sheet, but are shown on the city map, and can be transferred from that.

9. Prominent Objects. This area is highly developed, and prominent objects are numerous. In a special report dated June 14, 1919, with accompanying "Landmarks for Charts", this subject <sup>on the map</sup> ~~is~~ thoroughly covered. The accompanying list of objects determined by the planetable contains no objects that should be charted.

10. The heads of Tanner and Mason Creeks were not run out because of lack of control, and the fact that no changes were apparent. The section shown in dotted pencil lines were transferred from the chart.

*L. A. Potter.*

L. A. Potter, Jr. H. & G. Engineer,  
Chief of Party.

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LIST OF PLANETABLE POSITIONS TO  
ACCOMPANY TOPOGRAPHIC SHEETS Nos.-----

Object & Description	Latitude	D.M.	Longitude	D.P.
		Meters		Meters
Water Tank	36 54	90	76 18	1200
Flagpole, Country Club	36 54	884	76 18	570
Flagpole, Near Farm House	36 54	378	76 17	480
Windmill	36 53	1810	76 17	1060
Windmill	36 54	98	76 17	1244
Windmill	36 54	237	76 18	63
Windmill	36 54	220	76 18	585
Windmill	36 54	810	76 17	1314
Windmill	36 54	865	76 17	1335
Center Of Drawbridge	36 54	680	76 18	472
Water Tank	36 56	455	76 17	128
Windmill	36 56	402	76 16	1280
Flagpole, Naval Training Station	36 56	683	76 17	860
Windmill	36 56	1395	76 17	170
Chimney	36 56	1180	76 19	1005
Flagpole, Naval Base	36 56	1666	76 19	-276
Flagpole on Arch Over Entrance to Air Station	36 57	525	76 18	877