

4432

C. & G. SURVEY

L. & A.

JUL 5 1929

Form 504

Acc. No.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: SOUTH CAROLINA

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. A 4432

LOCALITY:

Wappoo Creek and Elliott Cut.

Vicinity of Charleston

1928

CHIEF OF PARTY:

R.F.A. Studds

4432

# DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "A".

Wappoo Creek and Elliott Cut, Vicinity of Charleston, S. C.

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## INTRODUCTION:

This survey was made according to Supplemental Instructions dated May 4, 8, and June 20, 1928.

This sheet comprises that part of Wappoo Creek included in the Inland Waterway and Elliott Cut. In accordance with paragraph 3, Supplemental Instructions, 10 McC, dated May 4, 1928, a junction was formed on the eastern limit with topographic sheet 3854 and on the western limit with the topography shown on hydrographic sheet 1639.

The survey covers the shoreline of the Inland Waterway between Ashley and Stono Rivers and as far inland as possible on the north and south banks without additional planetable traverse or setups. Effort was made by the topographer to tie in the roads and streams with those located by previous surveys.

Since the last survey of this locality, on both sides of the Inland Water Way, subdivisions have been formed; consequently there are a number of new roads, etc. that have not been charted. These roads are shown on attached blueprints. (See Page 3 of this report).

The roads and streams shown on Chart 470 can be adjusted with this survey by the use of the natural objects shown on this sheet.

The shoreline of that part of Wappoo Creek not included in the Inland Waterway was executed by a running survey of the hydrographic party and is shown on the smooth hydrographic sheet of this area.

## METHOD:

The planetable and stadia method was used in executing the topography. A traverse was run from a point, located by a three-point fix, at the eastern entrance to Elliott Cut, to Stono River making a junction with topographic sheet 1639 and ending at triangulation station Red Tank, with a closing error of two meters. This error was not adjusted. The planetable points thruout the rest of the survey were located either by three point fixes or by placing the instrument over triangulation stations.

The control for this survey was a scheme of triangulation from Charleston, S. C. to Stono River using the line from Francis Marion to West Base as the Base line.

A number of natural objects were located and their positions are given in an accompanying list of plane table positions.

The form, Landmarks for Charts, covering this sheet, accompanies

this report.

CHANGES:

On Chart 470 and north of triangulation stations, Windmill, South Bank, there is shown a large stream connecting the Inland Water Way and that part of Wappoo Creek not included in the inland route. This was found to be a very small drainage stream not more than five meters wide at the entrance and entirely dry at low water. The slough ends about four hundred meters from the inland route in marsh.

There is also a prominent group of trees about two hundred meters east of this slough not previously charted.

LANDMARKS:

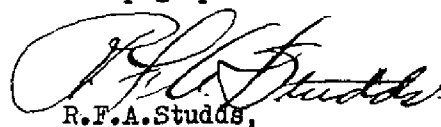
The following objects are good landmarks; the water tank on the Windermere Subdivision called "Tank, Windemere", the water tank on the property of the Charleston Country Club known as "Tank, Country Club", the water tank on the Riverland Subdivision called "Grey Tank", and a windmill on the south bank of Wappoo Creek about midway between the Ashley and Stono Rivers. These water tanks mentioned are one hundred and fifty foot tanks and were located by triangulation, as also was the windmill.

Additional landmarks not shown on this sheet, but located by triangulation, are the water tank on James Island and the airplane beacon on the Francis Marion Hotel.


Respectfully submitted:

Wilbur R. Porter,  
Aid, USC&G Survey,  
Topographer.

Per:

  
R.F.A. Studds,  
Jr. H & G E,  
USC&G Survey.

Forwarded:

  
R.F.A. Studds,  
Jr. H & G E,  
USC&G Survey,  
Chief of Party.

SUPPLEMENTAL BLUE PRINTS AND MAPS.

Subsequent to the survey by Ensign Wilbur R. Porter, this topographic sheet was taken into the field for the purpose of locating thereon new streets and roads.

Four prints were obtained and are submitted with this report. These prints were verified on the ground. Streets not existing were so marked. Planetable setups were made in the locality of each print and a point or points shown on the prints were located on the topographic sheet.

The four prints submitted are as follows:

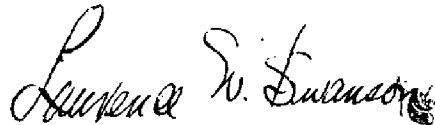
Print No. 1 shows existing roads in Wappoo Hall Subdivision.

Print No. 2 shows existing roads in Riverland Terrace Subdivision.

Print No. 3 shows existing roads in Edgewater Park Subdivision.

Print No. 4 shows existing roads in Windermere Subdivision.

Crescent Subdivision, so named on the Topographic sheet by Ensign Porter and lying just north of the bridge across Wappoo Creek, has been merely staked out. No streets have yet been cut thru.



Lawrence W. Swanson,  
Aid, USC&G Survey.

Forwarded:



R.F.A. Studds,  
Jr. H&GE, USC&G Survey,  
Chief of Party.

# LIST OF PLANETABLE POSITIONS

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Object	Latitude D.M.		Longitude D.P.		Remarks
	o	' meters	o	' meters	
Rear Range, Wappoo Creek entrance	32 45	661.9 (1186.5)	79 57	102.3 (1459.2)	Center
Silo, dairy	32 46	716.6 (1131.7)	79 59	234.3 (1327.2)	Center, top
Beacon, Elliott Cut and Stono River	32 45	1818.6 ( 29.7)	80 00	201.4 (1360.3)	Top

# TOPOGRAPHIC SHEET

- "A" -

## STATEMENT OF CHIEF OF PARTY

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This sheet has been inspected and is approved.

A good junction is made with previous surveys on the east and west limits of the sheet, but a disagreement is noted in the area between Ashley and Stono Rivers, upon comparison with original topographic sheet 1604b. This is probably due to the changes in the creeks during the elapsed years between the two surveys. Except for the eastern portion, the area was not compared with original topographic sheet 3854, because of the lack of control and detail in the latter survey.

Sufficient topography was executed on the sheet herewith submitted, so that the entire area between Ashley River and Stono River can be recharted. Roads, etc., that extend beyond the limits of this sheet, and which are now shown on Chart 470, can be joined to this work. Those features found to disagree, so that no connection can be made to the present survey, should be discarded.

The portion of Wappoo Creek not included in the Inland Waterway, was sketched in by the hydrographic party and is shown on smooth hydrographic sheet No. 6. This portion of the creek is an unimportant body of water and it is believed that the location of the shoreline by the hydrographic launch is sufficiently accurate for charting purposes. It is noted, also, that this disagrees with the shoreline as shown on Topographic Sheet 1604b. In adjusting the new survey to the chart, the area is deemed sufficiently unimportant, so that marsh limits and other minor features can be omitted from the chart, when it is found they disagree to such an extent that they cannot be joined to the present survey.



R.F.A. Studds,  
Jr. H & G E,  
USC&G Survey,  
Chief of Party.



AND REFER TO No. 11-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 25, 1930.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4432

Wappoo Creek and Elliott Cut, South Carolina

Surveyed in 1928

Instructions dated May 4, 8, and June 20, 1928 (R.F.A.Studds)

Chief of Party, R. F. A. Studds.

Surveyed and inked by W. R. Porter and L. W. Swanson.

1. The records and character of the survey conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the specific instructions. It would have been very helpful to the cartographer in placing the plans of sub-divisions accurately on the chart if Coker Ave., Riverview Ave. and the highway connecting Wappoo Drive with the bridge over Wappoo Creek had been shown.
3. No additional surveying is required.
4. The character of the surveying and drawing are excellent.
5. Reviewed by E. P. Ellis, February, 1930.

Approved:

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Chief, Section of Field Records (Charts)

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Chief, Section of Field Work (H. & T.)

Chief, Division of Charts

Chief, Div. of Hyd'y and Top'y



AND REFER TO NO. 11-1111

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 28, 1930.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4432

Wappoo Creek and Elliott Cut, South Carolina

Surveyed in 1928

Instructions dated May 4, 8, and June 20, 1928 (R. F. A. Studds)

Chief of Party, R. F. A. Studds.

Surveyed and inked by W. R. Porter and L. W. Swanson.

1. The records and character of the survey conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the specific instructions. It would have been very helpful to the cartographer in placing the plans of sub-divisions accurately on the chart if Coker Ave., Riverview Ave. and the highway connecting Wappoo Drive with the bridge over Wappoo Creek had been shown.
3. No additional surveying is required.
4. The character of the surveying and drawing are excellent.
5. Reviewed by E. P. Ellis, February, 1930.

Approved:

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Chief, Section of Field Records (Charts)

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Chief, Section of Field Work (H. & T.)

*L. C. Tolbert*

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

4432

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. A

REGISTER NO. **4432**

State SOUTH CAROLINA

General locality ~~South-east~~ Coast Charleston

Locality Wappoo Creek and Elliott Cut, ~~Vicinity of Charleston.~~

Scale 1:5,000 Date of survey July, 1928

Vessel Launch ELSIE

Chief of Party R.F.A. Studds

Surveyed by Wilbur R. Porter, Lawrence W. Swanson

Inked by Wilbur R. Porter, Lawrence W. Swanson

Heights in feet above - to ground to tops of trees

Contour, Approximate contour, Form line interval - feet

Instructions dated May 4, June 20, 1928

Remarks: Four prints attached to Topographic Sheet - filed