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Form 504 Ed. June, 1928

### **DEPARTMENT OF COMMERCE**

U. S. COAST AND GEODETIC SURVEY

R.S.Patton..., Director

State NEW YORK

# DESCRIPTIVE REPORT

Topographic

Sheet No. B and C 477

477

LOCALITY

East River.

Bronx River to Westchester Creek.

Port Morris and Lawrence Point.

19.33

CHIEF OF PARTY

I.E.Rittenburg.

S. GOVERNMENT PRINTING OFFICE: 183

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DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEETS "B" AND "C" EAST RIVER, NEW YORK HARBOR, PROJECT H. & T. # 152, 1933.

AUTHORITY Work on these sheets was done in accordance with orders of Aug. 9, 1933 and written instructions of Sept. 2, 1933.

LOCALITY The area covered by these sheets is from the Hell Gate bridge,

East River, through t the north side of Rikers Island to triangulation sta.

Old at the East entrance to Westchester Bay, Westchester Creek and Bronx River.

### CONTROL AND METHODS

Triangulation stations of Lieut. Woodworth 1932 formed an excellent framework of horizontal control. Almost anywhere on these sheets it was pos sible to obtain a good strongthree point fix. For, supplemental control, orthodox plane table methods were used. Sheet C, the western sheet, was controlled exclusively by cuts from triangulation stations, resection and three point fixes. No traverses for control were run on this sheet. The only traverses on this sheet were between adjacent signals for the rodding of shoreline. For the location of the West pier of the Hell Gate Bridge a three point fix was taken nearby and the pier rodded in from this fix. On sheet "B" most stations in the East River, lower Bronx Rive, and Lower . Westchester River, were cut in from triangulation stations with no triangles of error. In Bronx River above station Bronx, 1932, it was necessary to run a traverse from Xta. Bronx to the 174 th ST. Bridge. A three point fix was taken here which showed an error of 4 meters in azimuth and no error in distance. From this bridge the remainder of the Bronx River shown was ent irely controlled by three point fixes. No errore between these fixes and the rodded locations of the signals at which these fixes were taken were found. In Westchester Creek, all the signals to Sta. West, 1932, were cut in by intersecting cuts. North of Sta. West the Gas Holder, 1932 was tied into with no error. At the North end of Westchester Creek a three point fix was taken on top of an apartment house and a rod reading taken to signal Fred U. S. E., which had previously been located by traverse etc., and no error in position was found. These two sheets are on the N. A. 1927 Datum obtained by adding a correction factor to the geographic positions of Lieut. Wood worths triangulation of minus 11.5 meters to all latitudes and plus 3,8 meter to all the longitudes.

MARKERS OF OTHER AGENCIES.

An effort was made to tie in all the markers of other bureaus in this area. All the U. S. Engineers marks were searched for and those found were located by topography. These are shown on the accompanying list of recoverable ptations and circled on the accompanying blueprints. Numerous recoverable street monuments of the Borough of the Bronx were also located a and shown on the sheet and blue prints. With these locations and other well defined prominent features every blue print of either the U. S. Engineers Borough of the Bronx, Harbor Line Board etc. can be applied directly to this survey, with no other control needed. At least 3 common points are now located on every blueprint which enters into the construction of this area of Chart 226. The several U. S. E. stations located will also serve to apply future soundings of that bureau to the chart. To simplify the future chart cor rections submitted by the U. S. E., it is recommended that the U. S. Eng.

7

GENERAL Westchester Creek, Bronx River, Puggsleys Creek were carried to the head of tidewater in each case. At the northern limit of these three creeks dams are built as shown on the sheet "B". The limits of the marsh on sheet B were actually rodded in all cases except the small marsh at W. side of the mouth of the Bronx River. As the aerial photographs are being reduced for this area vvery little detail back of the H. W. line was obtained. Several street intersections were obtained to aid in future air photo reductions and compilations. The two piers for the Hell Gate Bris Bridge shown on sheet "6" were also located for this purpose. L. W. is to be obtained from the hydrographic sheet after it shall have been verified. The little bight shown on sheet "C" just N. E. of N. Chimney N.Y.Central R. R. has a large number of piles, dolphins, and log raftssused in connection with an apparently abandoned marine railway.

### LANDMARKS PHOTOGONTROL POINTS & LIST OF RECOVERABLE STATIONS.

There is attached to this report a list of landmarks points for the control of air photographs, and a list of recommended rable stations. Blue prints showing the U. S. E. stations and the Borough of the Bronx topo and street monuments are attachee for reference purposes only.

R. S. Spaulding, Observer,

I. E. Rittenburg, Lieut., Chief of Party.

### AIR PHOTO CONTROL POINTS LOCATED BY TOPOGRAPHIC PARTY

The following points will serve as good air photo control points in the future. The objects located by Lieut. Woodworth are not included in this report.

N. End of Westchester Creek showing bridge, dam and street.

Bridges across Westchester Creek and Bronx River.

N. End of Puggsleys Creek
N. End of Bronx River
the 2 Hell Gate Bridge piers

### RECOVERABLE TOPOGRAPHIC STATIONS AND DESCRIPTIONS

The 43 U. S. Engineers stations shown on the sheets for which the descriptions are attached.

Verious street monuments of the Borough of the Queens.

Sig. Far; W. end of W. Ferry Gate, Classon Pt.

Sig. Bor, Beacon, N. end N. Brother Is.

Chimney on N Brother Id.

Bridge piers Hell Gate Bridge.

CHARTESFILE/NO.0 ARCHIVES DIVISION OF

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Acc.	Ne.	 

1933

Flushing. L.I. N.Y. 34th Ave

> Oct. 24. \_\_, 193 **3**

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

	-				I.E	.Rittenb	erg. Lie	ut. C.& (	Shief of Party.	
· ·				POSI	ITION					
DESCRIPTION	LATITUDE		LONGITUDE			METHOD OF DETER- MINATION	CHARTS AFFECTED			
	0	D. M. METERS		O I D. P. METERS		DATUM	I			
Gas holder - Hunts Pt.	40	48	959	73	52	775	N. A. 192	Triangu 7 lation	226 - 1213	
N. ChyGas Plant	40	48	580	73:	252	605	11	ti I	17	
S.ChyGas Plant	40	48	567	73	52	612	R	n	n	
W.ChyGas Plant	40	48	. 503	73	52	649	r,	17	п	
Chy.Gates Mfg.Co.	40	48	768	73	53	846	n n	· n	it .	
N. ChyN.Y. C.R.R.	40	<u>4</u> 8	550	73	54	304	, et .	n	11	
S.ChyN.Y.C.R.R.	40	48	529	73	54	279	tt.	į n	'n	
S.W. Stack of 5-GAE Co.	40	47	1669	73	54	896	17	tt .	11	
ChyLawrence Pt.	40	47	739	73	54	876	n	111	17	
Roof tank - Oaks Mfg.Co.	40	46	1648	73	_53	1384	n	()	17	36
Tank - Astoria Import /	40	<b>4</b> 6	1539	73	58	1363	π	11	77	36
Tank - Steinway & Co. V	<b>4</b> 0	46	1481	73	53	1400	41	9	tt	3
Wind indimator-Airport	40	46	1368	73	52	888	11	п	п	î.
Clock tower-W.&.J.Sloan	40	45	1180	73	- 50 -	237	17	17	ti	
sholder-Flushing	40	46	133	73	_49_	1368	tt	17	, IT	

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Land-

marks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart. sufficiently permanent to chart, E. S. GOVERNMENT PRINTING OFFICE: 1933

Title (Par. 56) Port Morris + Lawrence Pt., East River, New York .

Chief of Partyl. E. Rittenburg Surveyed by R.S. Spaulding Inked by R.S.S.

Ship Share party #15 Instructions dated Sept.2, 1933 Surveyed in Sept. Oct. 1933

- 1. V The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)
- 2. The character and scope of the survey satisfy the instructions.
- 3. / The control and closures of traverses were adequate. (Par. 12, 29.)
- The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.) There are no contours or vertical control on this sheet.
- The delineation of contours formlines is satisfactory. (Par. 49, 5. 50.)
- There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the See Chart Letter 45 (1934) charts. (Par. 28.) (Numely, U.S. E. blue prints) a number 20th 45 (19
  of photostates of U.S.E. Stations with descriptions and
  Condinate who also submitted (these were given to Carto. Sec., for filing.) 7. High water line on marshy and mangreve coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 8. ✓ The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) \_ severe side)
- 9. ✓ Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
- The span, draw and elegrance of bridges are shown. (Par. 16c.) 10.
- Locations and elevations of summits are given. (Par. 19, 51.) 11.
- The tree line was shown on mountains. (Par. 16g.) 12.

(see riotes or

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks. B-317



- 1. Just off shore about 125 meters south of A ste. Starks

  (G. + E. co.) 1932 there are three dots (thus. !)

  If in not clear just what these dols represent. If
  They are possibly piles.?
- 2. On the chart there in a worky shore him shown just worth west of A sta, Bowery (1932). This survey does not show any worky area in this vicinity.
- 3. The march symbol on this survey in not drawn according to the standard symbol. (See note on T4117) (or a page 109, Tey manual.)
- 4. Between & woodsey u. S.E., and Tirdale u. S.E. there is a inheal line from the shore muning out between two rocks awash. It is not clear what this line represent.
- 5. There are no topographic names shown a this sheet.

The "faller" in the place of spen horses of the done of the form factor of the fall ?

**\$** 

- 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
- 14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
- 15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.)
- 16. / A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.)
- 17. √ The magnetic meridian was shown and declination was checked. (Par.
- 18. The geographic datum of the sheet is North American (1927) and the reference station is correctly noted. (Par. 34.)
- 19. Junctions with contemporary surveys are adequate. There are no contemporary costs are survey in this area.
- 20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)
- $21.\sqrt{}$  The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
- 22. No additional surveying is recommended.

The Chief of Party inspected and approved the sheet and the descriptive report after review by There in no objecte statement that the dief of Porty has inspected on approved this shoet.

His signature in typed only.

Remarks: see were side of page 1.

Reviewed in office by John & Land

Examined and approved;

Whief, Section of Field Records

. Division of Hyd. and Top.

Chief, Section of Field Work

### REVIEW OF TOPOGRAPHIC SURVEY No. 4777

Title (Par. 56) Bronx River to Westchester Creek, East River, New York .

Chief of Party I.E. Rittenburg Surveyed by R.S. Spaulding Inked by R.S.S.

ShipShore Party #15 Instructions dated Sept. 2, 1933\_ Surveyed in Sept. - Oct.

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)
- 2. The character and scope of the survey satisfy the instructions.
- 3. The control and closures of traverses were adequate. (Par. 12, 29.)
- 4. The amount of vertical control that the Manual specifies for -contours formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
  There is no nextical control and no contours on this sheet.
- 5. The delineation of contours formlines is satisfactory. (Par. 49, 50.)
- 6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) w.S.E. blue points and a number of photostate of w.S.E. Stations with their descriptions and coordinates were submitted (There were given to Carte. Sec. for filing) See Chart little 45 (1934)
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 9. ✓ Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
- 10. The span, drew and clearance of bridges are shown. (Par. 16c.)
- 11. Locations and elevations of summits are given. (Par. 19, 51.)
- 12. The tree line was shown on mountains. (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.





- there are two topographia signal shown.
  There is no none que for there two signals
- This survey shows three works awall but noney of any soft. The chet shows a neef clear around this point.
- 3. a small black "dot" maked "Pier" in shown about 120 meters west of U.S.E. station "Barrello". from the size of this dat, it appears that it is as pile nother than a "Pier".
- 4 a small black square (books like a floot) is shown about 60 maters noth of Sig. US.E. Standard" in upper westcheste creek,
  This feature is ladring in identication.
  - 5. The ward symbol on this sheet is not drawn according to the standard protice. (See page 109-Topopophic manual).



- 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
- 14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
- The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.)
- 16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.)
- 17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.)
- 18. The geographic datum of the sheet is North American (1917) and the reference station is correctly noted. (Par. 34.)
- 19. Junctions with contemporary surveys are adequate. There are no contemporary coast surveys are adequate. There are no contemporary coast surveys in their area.
- 20. √ Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)
- 21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 79, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
- 22. VNo additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by The chief of the descriptive and approved the sheet and the descriptive chief of the separate sheet.

24. Remarks:

Reviewed in office by

John 9. Rude

Examined and approved:

Chief, Section of Field Records

Chief, Division of Hyd. and Top.

Chief, Section of Field Work

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R-317

CRY

IN REPLY ADDRESS THE DIRECTOR
U, S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE

AND REFER TO NO.

20-MG 1990 (15) . U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 27, 1934.

To: Lieutement Isidor Rittenburg, Coast and Geodetic Survey, Beaufort, South Carolina.

From: Chief, Division of Hydrography and Topography.

Subject: Review of Topographic Sheets, East River, New York.

Enclosed, for your information, is a copy of several notes prepared in the Field Record section at the time your last season's topographic sheets were reviewed. If the points in question can not be cleared up without access to the sheets, you will please arrange to inspect the sheets in this office at the time you transfer your party from South Carolina to New York.

Chief, Division of Hydrography and Topography.

Enclosure.

Soultfull point me

February 26, 1934.

Chief, Section of Field Work.

Chief, Section of Field Records.

Notes on topographic surveys, East River, New York. Subject:

The following notes are made in the review of topographic sheets 4777 and 4778, executed in the Rest River, New York by the party under Lieut. I. E. Rittenburg. It is suggested that these be called to his attention in order that any notes may be added to the cheets or descriptive reports to clear up the doubtful points raised.

### T. 4778

Just offshore about 125 meters south of station "Stack", 1932, there are three dots. It is not clear what these dots represent.

On the chart there is a rocky shoreline just northwest of triangulation station "Bowery". No rocky area is shown Win this vicinity. The question arises whether the topographer has examined this area closely.

Between U.S.E. triangulation stations "Woolsey" and "Tisdale" there is an inked line running out from the shore between two rocks awash. It is not clear what this represents.

There are no geographic names shown on the sheet.

In the vicinity of the mouth of Pugsley Creek there are not used in lights two topographic signals shown without names.

> Rest of Clason Point in the vicinity of U. S. E. B.R.12 provinced this survey shows three rocks awash but does not show the rest which is shown on the chart as extending entirely around the point.

> > A small black dot marked "Pier" is shown about 120 meters west of U.S.E. station "Barretto". From the size of this dot it would appear that it is a pile rather than a pier.

signish were

Hulk of tug covered at H. W. boreat L. W. Just off social L. W. Cy a lock for wines from the Dienes flands

A small black square is shown about 60 meters north of U.S.E. signal "Standard" in Upper Westchester Creek. This feature should be identified by a proper note.

Just east of Hunts Point Light there are shown two piles. Referring to the hydrographic sheet of this vicinity it appears that these dots marked "Piles" are in the exact location of the black and red buoys marking the channel along the east side of Hunts Point. It is a question whether the topographic sheet is not in error in this respect.

Photostats of 43 U.S.E. stations were forwarded. The descriptive report mentions other recoverable stations. Form 524 was not accomplished so that the data desirable on this form can not conveniently be obtained for future revision.

On the two sheets the march symbol was not drawn according to the standard symbol.

(Signed) LO Colbert

Chief, Section of Field Records

removed.

The answers to the above mentioned doubtfull points on undirected by the Rittenburg in period on the many love been applied to the original tops what ps food

Form 537a Ed. Nov., 1929

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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# TOPOGRAPHIC TITLE SHEET

DEC 8 .933

Acc. No. -

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 cc B

# REGISTER NO.4777 Graphic Control

State New York
General locality FEast River, v.
Locality BronxiRiver Horwestchester Creek. a Creek
Scale 1:10,000 Date of survey Sept. Oct , 19 33
Vessel Shore Party 15
Chief of party I. E. Rittenburg
Surveyed by R. S. Spaulding
Inked by R. S. Spaulding
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated Sept. 2, 1933 , 19
Remarks:

Form 537a Ed. Nov., 1929

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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## 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 NoC
REGISTER NO 4778
State New York
General locality EastsRivers
Locality Port Morris and Lawrence Point.
Scale 1:10,000 Date of survey Oct. , 1933
Vessel Shore Party 15
Chief of party I. E. Rittaburg
Surveyed by R. S. Spaulding
Inked by R. S. Spaulding
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated Sept. 2, 1933 , 19
Remarks: