

5640

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Field 7

Topographic } Sheet No. Reg. 5640
Hydrographic }

State NEW JERSEY

LOCALITY

~~ATLANTIC COUNTY~~

GREAT EGG RIVER

VICINITY OF MAYS LANDING

~~SCULLS LANDING TO MAYS LANDING~~

2
193 6

CHIEF OF PARTY

E. H. Kirsch

U.S. GOVERNMENT PRINTING OFFICE: 1934

1216-13

Applied to new chart compilation 827

S. R. July 1939

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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. 7

REGISTER NO.

5640

T5640

State New Jersey

General locality Great Egg River

Locality Sculls Landing to City of
Vicinity of
Maya Landing

Scale 1:10,000 Date of survey April, 1936²

Vessel Air Photo Party No. 21

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report

Inked by F. H. McBeth

Heights in feet above ---- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated May 16th, 1935, 19

Remarks: None

Sheet No. 7
Reg. No. 5640

PHOTOS NOS.

DATE

66-13-82 to 88
66-14-13 to 18

April 22nd, 1932
April 22nd, 1932

PROJECTION BY

----- 4-27-35
L. C. Ripley

Projection Checked By

----- 4-27-35
P. W. Hund

Control Plotted By

E. J. Anderson

Control checked By

F. H. McBeth
F. H. McBeth

Control Plotted on Photos By

J. F. Richardson

Control checked on Photos By

F. H. McBeth
F. H. McBeth

Smooth Radial Plot By

E. H. Kirsch
E. H. Kirsch March, 1935⁶

Smooth Radial Plot Checked

F. H. McBeth
F. H. McBeth

Detail Inked by

F. H. McBeth
F. H. McBeth April 1935⁶

DETAIL INKED: 30.0 Square statute miles (land area)

LENGTH OF COAST LINE: None

LENGTH OF SHORE LINE: 14.5 statute miles (more than 200 meters wide)

LENGTH OF STREAMS: 34.0 statute miles (less than 200 meters wide)

Ref. Sta.: German, 1935

39° 24' 44.160" (^{1361.9}~~70.4~~)
~~74° 34' 31.118" (-)~~
74° 43' 01.218 (27.1)

N.J. Grid Coord. x = 1,985, 776.88
y = 210, 860.05

GENERAL INFORMATION

Statistics:

The total land area covered by this sheet is approximately 30 square miles. There are 14.5 miles of shore line more than 200 meters from the opposite shore. This figure includes shore line of navigable water to the bridges at Mays Landing. There are approximately 34 miles of stream compilation of less than 200 meters in width. The numerous drainage ditches are not included in these figures.

There is no coast line in the area covered.

General Report:

The sheet completes the compilation of the Great Egg River to Mays Landing, which is the limit of navigation on that stream. The tidal marshes are small and in places there are none. There are small areas under cultivation mostly on the west side of the River and some poultry farms. The remainder of the sheet is composed of wooded and brush areas.

Photographs:

Pictures from two flights were used in this compilation. The flights include pictures 66-13-82 to 66-13-88 along the east edge of the sheet, and 66-14-13 to 66-14-18 along the western edge. They were taken on the 22nd of April, 1932. The time of the flights is not recorded. The pictures are single lens, and were taken by the Aero Service Corporation of Philadelphia.

CONTROL:

Sources:

The control for this sheet is the second order triangulation executed by John Bowie Jr. in 1935 and first order traverse by the state of New Jersey in 1935 and 1936. All control was computed on N. A. 1927 datum. Several N. J. Geod. S. Stations were tabbed on the north end of the sheet, when the radial plot was made.

Errors:

No errors or discrepancies were found in the plotting of control or in the radial plot.

COMPILATION

Method:

The standard radial line method was used as described in the U. S. C. & G. S. notes on the compilation of planimetric line maps

from Aerial Photographs.

No adjustment of the plot was found necessary. There is a long run of pictures on the eastern edge of the sheet with no control stations on the eastern edge of the pictures. The pictures run well and the plot should be accurate.

Interpretation:

The interpretation of this area is accompanied by some difficulties. Due to the time of the photographs not being recorded the stage of the tide is unknown and in places there appear several different water marks along the stream banks.

The wooded areas are largely brush and small trees, not sufficiently high to cast a shadow. There are but small areas of valuable timber on the entire sheet and the growth seems to vary in density and height. Particularly is this true to the south and east of the town of Belcoville.

Lying in the brush and trees to the east of N. J. highway No. 50 are the abandoned proving grounds of the U. S. Army. The buildings have been demolished but their concrete bases have been indicated and the system of railroads formerly used is now abandoned and the rails removed.

Only the larger buildings in the towns of Mays Landing and Belcoville have been shown.

Information from other sources:

This area has not been covered by a U. S. C. & G. Survey chart. Probably the most complete map of the area has been published by the New Jersey Department of conservation and development. Although this map is not as detailed as the present compilation no discrepancies have been noticeable. It has been used as an authority for names appearing on this sheet.

Conflicting names:

On the map covering the area and mentioned above, names appear with the apostrophied form as WILSON'S LANDING and MATTHEW'S RUN. The apostrophe has been omitted on the overlay sheet. The New Jersey State publication differs from the U. S. C. & G. Survey Chart No. 1217 in calling Great Egg River The Great Egg Harbor River. In this case the U. S. C. & G. Survey chart has been followed as an authority.

COMPARISONS WITH OTHER SURVEYS

Junctions:

A satisfactory junction with sheet No. T 5641 on the south has been made. There are no other compilation junctions to be made on this sheet.

LANDMARKS

mission line, the towers of which are plainly visible from their four concrete bases and from their shadows. They have reported on form 524. The two stacks just east of Mays Landing are plainly visible and have been

Remarks

Decisions

1		
2		
3		
4		
5		
6		
7		
8		<i>Omit S</i>
9		
10		
11		
12		
13		<i>correct spelling P.O. Map Estelville</i>
14		<i>omit S</i>
15		
16		<i>omit S</i>
17		
18		
19		
20		
21		<i>omit S</i>
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5640

Name on Survey	A On Chart No. 1217	B On previous survey No. 501 Map Millville Sheet	C On U. S. quadrangle Maps	D From local information	E State of N. Y. Dept. of Conservation Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
✓ <u>Lake Lenape</u>					✓				1
✓ <u>May's Landing</u>		✓	May's Ldg.		✓	✓			2
✓ <u>Babcock Creek</u>		✓	✓		✓		✓		3
✓ <u>Belcoville</u>					✓				4
✓ <u>Great Egg River</u>	✓								5
✓ <u>Clarkstown</u>		✓	✓		✓				6
✓ <u>South River</u>		✓	✓				✓		7
PR. ✓ <u>Wilson's Landing</u>		✓	Wilson Ldg.		✓				8
✓ <u>Gravelly Run</u>		✓	✓		✓				9
✓ <u>Thompsonstown</u>		✓	✓		✓				10
✓ <u>Cedar Branch</u>		✓	✓		✓				11
✓ <u>Miry Run</u>		✓	✓		✓				12
✓ <u>Estelville</u> ^{omit} see F		✓	✓		✓	Estel- ville	Estel- ville		13
✓ <u>Steelman's Landing</u>		✓	Steel- man Ldg.		✓	Steel- man Ldg.			14
✓ <u>Perch Cove Run</u>		✓	✓		✓				15
✓ <u>Matthew's Run</u>		✓	Matthew Run		✓				16
									17
✓ <u>Watering Race Branch</u>		Watering Race Branch	✓		Watering Race Branch		Watering Race Branch		18
									19
									20
✓ <u>Stephen's Creek</u>		✓					✓		21
									22
									23
									24
									25
									26
									27

Names underlined in red approved
by SAE on 12/15/36

PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

Positions plotted by R. E. Ask

Positions checked by R. E. Ask

Grid inked on machine by R. E. Ask

Intersections inked by H. H. Schleuter

Points used for plotting grid:

X 1,980,000
Y 125,000

X 1,990,000
Y 210,000

X 2,000,000
Y 225,000

X
Y

X 1,980,000
Y 195,000

X
Y

X 2,000,000
Y 195,000

X
Y

Triangulation stations used for checking grid:

$X=1,985,776.88'$ $Y=210,860.05'$

- | | |
|----------------------------------|----------------------|
| 1. <u>German 1935 (ref. sta)</u> | 5. <u>Steel 1935</u> |
| 2. <u>May 1935</u> | 6. <u>Spoil 1935</u> |
| 3. <u>Water 1935</u> | 7. <u></u> |
| 4. <u>W. Tower 1935</u> | 8. <u></u> |

T-5640

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J. STATION _____

x	<u>1,940,000.00</u>	$\log S_0$	<u>4.30103003</u>
K	<u>2,000,000.00</u>	$\log (1200/3937)$	<u>9.48401583</u>
$x' (=x-K)$	<u>-20,000.00</u>	$\log (1/R)$	<u>1086</u>
$x'^3/(6\rho_0^2)$	<u>.00</u>	$\log S_m$	<u>3.78505672</u>
S_0	<u>-20,000.00</u>	cor. arc to sine	<u>7</u>
$3 \log x'$	<u>2.90309000</u>	$\log S_1$	<u>3.78505665</u>
$\log 1/(6\rho_0^2)$	<u>4.5410213</u>	$\log A$	<u>8.50913261</u>
$\log x'^3/(6\rho_0^2)$	<u>7.4841113</u>	$\log \sec \phi$	<u>0.11228852</u>
$\log S_m^2$	<u>7.57011344</u>	$\log \Delta\lambda_1$	<u>2.40647778</u>
$\log C$	<u>1.319918</u>	cor. sine to arc	<u>+ 11</u>
$\log \Delta\phi$	<u>8.890031</u>	$\log \Delta\lambda$	<u>2.40647789</u>
y	<u>225,000.00</u>	$\Delta\lambda$	<u>254.9634</u>
ϕ' (by interpolation)	<u>39 27 03.9549</u>	λ (central mer.)	<u>74 40 00.0000</u>
$\Delta\phi$	<u>.0776</u>	$\Delta\lambda$	<u>+ 4 14.9634</u>
ϕ	<u>39 27 03.8773</u>	λ	<u>74 44 14.9634</u>
	<u>11.96 mm.</u>		<u>35.78 mm</u>

Explanation of form:

$$x' = x - K$$

$$S_0 = x' - \frac{x'^3}{(6\rho_0^2)_2}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_0$$

R = scale reduction factor

ϕ' is interpolated from table of y

$$\Delta\phi = C S_m^2$$

$$\phi = \phi' - \Delta\phi$$

$$\Delta\lambda_1 = S_1 A \sec \phi$$

$$\log S_1 = \log S_m - \text{cor. arc to sine}$$

$$\log \Delta\lambda = \log \Delta\lambda_1 + \text{cor. arc to sine}$$

$$\lambda = \lambda \text{ (central mer.)} - \Delta\lambda$$

T-5640

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J.

STATION _____

x	<u>2,000,000.001</u>	$\log S_g$	<u>5 00000000</u>
K	<u>2,000,000.00</u>	$\log (1200/3937)$	<u>9 . 48401583</u>
$x' (=x-K)$	<u>+ 0.001</u>	$\log (1/R)$	<u>1086</u>
$x'^3/(6\rho_0^2)_g$	<u>- .00</u>	$\log S_m$	<u>6.48402669</u>
S_g	<u>+ 0.001</u>	cor. arc to sine	<u>0</u>
$3 \log x'$	<u>7.00000000</u>	$\log S_1$	<u>6.48402669</u>
$\log 1/(6\rho_0^2)_g$	<u>4.5810213</u>	$\log A$	<u>8.50913231</u>
$\log x'^3/(6\rho_0^2)_g$	<u>5.5810213</u>	$\log \sec \phi$	<u>0.11224465</u>
$\log S_m^2$	<u>12.96805338</u>	$\log \Delta \lambda_1$	<u>5.10544765</u>
$\log C$	<u>1.219918</u>	cor. sine to arc	<u>+ 0</u>
$\log \Delta \phi$	<u>10.247971</u>	$\log \Delta \lambda$	<u>3.10544765</u>
y	<u>225,000.00</u>	$\Delta \lambda$	<u>"</u>
ϕ' (by interpolation)	<u>39 27 03.9549</u>	λ (central mer.)	<u>74 40 00.0000</u>
$\Delta \phi$	<u>- .0440</u>	$\Delta \lambda$	<u>0.</u>
ϕ	<u>39 27 03.9549</u>	λ	<u>74 40 00.0000</u>
	<u>12.20 m.m.</u>		

Explanation of form:

$$x' = x - K$$

$$S_g = x' - \frac{x'^3}{(6\rho_0^2)_g}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_g$$

R = scale reduction factor

ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

$$\log S_1 = \log S_m - \text{cor. arc to sine}$$

$$\log \Delta \lambda = \log \Delta \lambda_1 + \text{cor. arc to sine}$$

$$\lambda = \lambda (\text{central mer.}) - \Delta \lambda$$

T-5640

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J. STATION _____

x	<u>1,440,000.00</u>	$\log S_s$	<u>4.30103003</u>
K	<u>2,000,000.00</u>	$\log (1200/3937)$	<u>9.48401583</u>
$x' (=x-K)$	<u>-20,000.00</u>	$\log (1/R)$	<u>1086</u>
$x'^3/(6\rho_0^2)_s$	<u>.00</u>	$\log S_m$	<u>3.78505672</u>
S_s	<u>-20,000.00</u>	cor. arc to sine	<u>7</u>
		$\log S_1$	<u>3.78505665</u>
$3 \log x'$	<u>2.90309000</u>	$\log A$	<u>8.50913439</u>
$\log 1/(6\rho_0^2)_s$	<u>4.5410213</u>	$\log \sec \phi$	<u>0.11177552</u>
$\log x'^3/(6\rho_0^2)_s$	<u>7.4841113</u>	$\log \Delta\lambda_1$	<u>2.40596656</u>
		cor. sine to arc	<u>+ 11</u>
$\log S_m^2$	<u>7.57011344</u>	$\log \Delta\lambda$	<u>2.40596667</u>
$\log C$	<u>1.318652</u>	$\Delta\lambda$	<u>254.6635</u>
$\log \Delta\phi$	<u>4.448765</u>		
y	<u>195,000.00</u>		
ϕ' (by interpolation)	<u>39 22 07.4414</u>	λ (central mer.)	<u>74 40 00.0000</u>
$\Delta\phi$	<u>.0774</u>	$\Delta\lambda$	<u>+ 4 14.6635</u>
ϕ	<u>39 22 07.3640</u>	λ	<u>74 44 14.6635</u>
	<u>22.71 mm.</u>		<u>35.10</u>

Explanation of form:

$$x' = x - K$$

$$S_s = x' - \frac{x'^3}{(6\rho_0^2)_s}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_s$$

R = scale reduction factor

ϕ' is interpolated from table of y

$$\Delta\phi = C S_m^2$$

$$\phi = \phi' - \Delta\phi$$

$$\Delta\lambda_1 = S_1 A \sec \phi$$

$$\log S_1 = \log S_m - \text{cor. arc to sine}$$

$$\log \Delta\lambda = \log \Delta\lambda_1 + \text{cor. arc to sine}$$

$$\lambda = \lambda \text{ (central mer.)} - \Delta\lambda$$

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J.

STATION _____

x	<u>2,000,000.001</u>	$\log S_0$	<u>7.00000000</u>
K	<u>2,000,000.00</u>	$\log (1200/3937)$	<u>9.48401583</u>
$x' (=x-K)$	<u>+ 0.001</u>	$\log (1/R)$	<u>1086</u>
$x'^3/(6\rho_0^2)_0$	<u>- .00</u>	$\log S_m$	<u>2.48402669</u>
S_0	<u>+ 0.001</u>	cor. arc to sine	<u>0</u>
$3 \log x'$	<u>7.00000000</u>	$\log S_1$	<u>2.48402669</u>
$\log 1/(6\rho_0^2)_0$	<u>4.5810213</u>	$\log A$	<u>8.50913439</u>
$\log x'^3/(6\rho_0^2)_0$	<u>5.5810213</u>	$\log \sec \phi$	<u>0.11177566</u>
$\log S_m^2$	<u>12.96805338</u>	$\log \Delta\lambda_1$	<u>3.10493674</u>
$\log C$	<u>1.318652</u>	cor. sine to arc	<u>+ 0</u>
$\log \Delta\phi$	<u>10.286705</u>	$\log \Delta\lambda$	<u>3.10493674</u>
y	<u>195,000.00</u>	$\Delta\lambda$	<u>0</u>
ϕ' (by interpolation)	<u>39 22 07.4414</u>	λ (central mer.)	<u>74 40 00.0000</u>
$\Delta\phi$	<u>- .0000</u>	$\Delta\lambda$	<u>0</u>
ϕ	<u>39 22 07.4414</u> <u>22.95</u>	λ	<u>74 40 00.0000</u>

Explanation of form:

$$x' = x - K$$

$$S_0 = x' - \frac{x'^3}{(6\rho_0^2)_0}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_0$$

R = scale reduction factor

ϕ' is interpolated from table of y

$$\Delta\phi = C S_m^2$$

$$\phi = \phi' - \Delta\phi$$

$$\Delta\lambda_1 = S_1 A \sec \phi$$

$$\log S_1 = \log S_m - \text{cor. arc to sine}$$

$$\log \Delta\lambda = \log \Delta\lambda_1 + \text{cor. arc to sine}$$

$$\lambda = \lambda \text{ (central mer.)} - \Delta\lambda$$

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J.

STATION _____

x	<u>1,990,000.00</u>	$\log S_r$	<u>4.00000000</u>
K	<u>2,000,000.00</u>	$\log (1200/3937)$	<u>9.48401583</u>
$x' (=x-K)$	<u>-10,000.00</u>	$\log (1/R)$	<u>10.86</u>
$x'^3/(6\rho_o^2)_o$	<u>0.00</u>	$\log S_m$	<u>3.48402669</u>
S_r	<u>-10,000.00</u>	cor. arc to sine	<u>2</u>
		$\log S_1$	<u>3.48402667</u>
$3 \log x'$	<u>2.00000000</u>	$\log A$	<u>8.50913335</u>
$\log 1/(6\rho_o^2)_o$	<u>4.5410213</u>	$\log \sec \phi$	<u>0.11203194</u>
$\log x'^3/(6\rho_o^2)_o$	<u>6.5410213</u>	$\log \Delta\lambda_1$	<u>2.10519196</u>
		cor. sine to arc	<u>+ 3</u>
$\log S_m^2$	<u>6.96805338</u>	$\log \Delta\lambda$	<u>2.10519199</u>
$\log C$	<u>1.319286</u>	$\Delta\lambda$	<u>127.4066</u>
$\log \Delta\phi$	<u>8.287339</u>		
y	<u>210,000.00</u>		
ϕ' (by interpolation)	<u>39 24 35.6986</u>	λ (central mer.)	<u>74 40 00.0000</u>
$\Delta\phi$	<u>0.194</u>	$\Delta\lambda$	<u>+ 2 07.4066</u>
ϕ	<u>39 24 35.6792</u>	λ	<u>74 42 07.4066</u>
	<u>110.03^{mm}</u>		<u>17.72^{mm}</u>

Explanation of form:

$$x' = x - K$$

$$S_r = x' - \frac{x'^3}{(6\rho_o^2)_o}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_r$$

R = scale reduction factor

ϕ' is interpolated from table of y

$$\Delta\phi = C S_m^2$$

$$\phi = \phi' - \Delta\phi$$

$$\Delta\lambda_1 = S_1 A \sec \phi$$

$$\log S_1 = \log S_m - \text{cor. arc to sine}$$

$$\log \Delta\lambda = \log \Delta\lambda_1 + \text{cor. arc to sine}$$

$$\lambda = \lambda \text{ (central mer.)} - \Delta\lambda$$

REVIEW OF AIR PHOTO COMPILATION NO. 5640

Chief of Party: E. H. Kirsch

Compiled by: F. H. McBeth

Project: H. T. 205

Instructions dated: May 16, 1935

- ✓ 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
- ✓ 2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
- ✓ 3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)
- ✓ 4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
- ✓ 5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
- ✓ 6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
- ✓ 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- ✓ 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. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 18, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60) *No landmarks*
- ✓ 11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
Overhead Cable Crossing. Crosses Great Egg River near lat 39° 25' 30" long 74° 41' 50". The two supporting towers are about 150 feet high with a cable clearance of about 100 feet.
- ✓ 12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
- ✓ 13. The geographic datum of the compilation is *N. A. 1927* and the reference station is correctly noted. *adjusted*
- ✓ 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 68j)
- ✓ 15. The drafting is satisfactory and particular attention has been given the following:
 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 2. The degrees and minutes of Latitude and Longitude are correctly marked.

3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

- ✓ 16. No additional surveying is recommended at this time.

17. Remarks:

None. High water line is of the date of photographs, April 22, 1932 as the field inspection showed no appreciable change.

18. Examined and approved;

E. H. Kirsch
Chief of Party

19. Remarks after review in office: *There are no previous surveys covering this area. Hydrographic & Topographic surveys are contemplated for this area in 1937. Corrections & additions to T-5640 as a result of these surveys will be made when this work is completed.*

Reviewed in office by: *R. E. Ask.*
-Frank G. Ankine

Examined and approved:

C. R. Green
Chief, Section of Field Records
L. O. Solbert
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work
Stude
Chief, Division of Hydrography and Topography.