

8758

Diag'd. on Diag. Ch. 1218

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Topographic

T-8758

Field No. Office No. Ph-7(46)C

LOCALITY

State Delaware

General locality Delaware River

Locality Smyrna

1946

CHIEF OF PARTY

Thos. B. Reed

LIBRARY & ARCHIVES

DATE June 21, 1948

8-1870-1 (1)

8758

DATA RECORD

T- 8758

Quadrangle (II): SMYRNA

Project No. (II): PH-7(46)-C

Field Office:
Camden, New JerseyChief of Party:
E. L. JonesCompilation Office:
Baltimore Photogrammetric OfficeChief of Party:
Thos. B. ReedInstructions dated (II III):
25 March 1946 (Field)
19 July 1946 (Office)Copy filed in ~~Descriptive~~
~~Report No. T-~~ (VI)
Division of Photogrammetry
Office FilesCompleted survey received in office:
23 Jan. 1948

Reported to Nautical Chart Section:

Reviewed: 18 May 1948 Applied to chart No. Date:

Redrafting Completed:

Registered: 10 June 1948

Published:

Compilation Scale: 1:20,000

Published Scale: 1:24,000

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.S.L.

Reference Station (III): FLEMING, 1933

Lat.: 39° 21' 15.214" 469.2m Long.: 75° 33' 00.748" 17.9m Adjusted
~~Unadjusted~~State Plane Coordinates (VI):
Del. State Grid:X = 462,235.88 Feet
N.J. State Grid:

Y = 493,228.86 Feet

X = 1,750,146.30 Feet

Y = 190,937.58 Feet

Military Grid Zone (VI)

PHOTOGRAPHS (III)
75th meridian

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
15539-41 incl.	3-21-46	1024	1:20,000	5.5' above MLW
15557 & 58	3-21-46	1051	1:20,000	5.9' above MLW
1601-1615 incl.	3-1-46	1512-1530	1:10,000	6.6' above MLW

Tide from (III): Actual tide observation at Philadelphia with correction to "Liston Point to Woodland Beach".

Mean Range: 5.8' Spring Range: 6.7'

Camera: (Kind or source) U.S.Coast and Geodetic Survey nine lens camera.
Focal length 8 $\frac{1}{4}$ ".

Field Inspection by:

E.L.Jones

date:

June-Aug. 1946

Field Edit by: Donald G. Flippo
R.D. Sipe, Chief of Party

date: 17 July to 31 July 1947

Date of Mean High-Water Line Location (III): As of date of photographs supplemented by field inspection during June-August 1946.

Projection and Grids ruled by (III) T.L.J.

date: 8-28-46

" " " checked by: T.L.J.

date: 8-28-46

Control plotted by: L.A.Senasack

date: 10-10-46

Control checked by: G. O. Fellers

date: 10-10-46

Radial Plot by: F.J.Tarcza & H.R.Rudolph

date: 1-47

Detailed by: F.M. Senasack

date: 1-20-47 to 2-7-47
4-1-47 to 5-12-47

Reviewed in compilation office by: J.W.Vonasek

date: 5/21/47 to 6/5/47

manuscript
Elevations on Field Edit Sheet
checked by: J.W.Vonasek

date: 5-29-47

STATISTICS (III)

Land Area (Sq. Statute Miles): 55

Shoreline (More than 200 meters to opposite shore): $1\frac{1}{2}$ statute miles

Shoreline (Less than 200 meters to opposite shore): $34\frac{1}{2}$ statute miles

Number of Recoverable Topographic Stations established: 4

Number of Bench Marks established:~ 21

Number of Temporary Hydrographic Stations located by radial plot: none

Leveling (to control contours) - miles: 99.5 statute 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:

Field Edit Corrections by:
Gladys S. Nottenburg

Jan. 1948

SCALE FACTOR

FROM GRID OR PROJECTION LINE
IN METERS

FORWARD (BACK)

[illegible]

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This image shows a blank page from a ledger or notebook. A vertical red margin line runs down the left side of the page. A horizontal black line is drawn across the page near the bottom edge. The paper has a light beige or cream color with some minor texture and small dark spots.

West of maps

(manuscript).

No. 6

Replaced by elev.

water tank.

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units.

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[illegible]

--	--


[illegible]

941 / M - 2388 - 12

M - 2388 - 12

DATE 10/9/46

SYMBOLS
Project Ph-7 (46)
29 April 1946

MEAN HIGH WATER LINE (fast line).....	---
OFF SHORE EDGE OF MARSH (apparent shoreline).....	---
GRASS IN WATER.....	Gr
IN SHORE LIMITS OF MARSH.....	---
MEAN LOW WATER LINE (definite).....	---
APPROXIMATE MEAN LOW WATER LINE.....	---
INTERMITTANT DRAINAGE.....	---
PERENNIAL DRAINAGE.....	---
CONTOURS.....	
PLANE TABLE ELEVATIONS FOR CONTOURS.....	X17 OR X17
FLY LEVEL ELEVATIONS.....	— CR 12
BENCH MARKS, marked and described.....	⊙ J-16, 1940 (dm)
TOPO STATIONS, natural object, described.....	— Tsta (d) GILL, 1946
TOPO STATIONS, marked and described.....	— Tsta (dm) MINK, 1946
TOPO STATIONS, addition Hydro Control, not named.....	— Tsta #8703
LANDMARKS.....	— Landmark: STACK, metal (55' high)
FIXED AIDS TO NAVIGATION, (official light list name)...	— CHERRY PT Lt. 13
TRIANGULATION STATIONS.....	— A SMITH, 1940
SUBSTITUTE STATIONS.....	— S Sta A SMITH, 1940
BOUNDARIES: Refer to U.S.G.S. Bulletin 788 E for symbol, ink in purple or violet ink.	

ABBREVIATIONS FOR FIELD INSPECTION ON PHOTOS

Project Ph-7 (46)

12 April 1946

ROADS:

Rd - road
X - abandoned (delete)
RR - railroad track
RR (2) - railroad, 2 tracks
1,2,3,4,4a,Tr - road class

SHORELINE:

MHW - mean high water
MLW - mean low water
M - marsh
Mud - mud
S - sand
Rky - rocky
Rk - rock
Dk - dock
Jet - jetty
Bkhd - bulkhead

STREAMS, PONDS:

D - large ditch
DX 0 small ditch (delete)
CR - creek
P - pond

OBSTRUCTIONS TO NAV:

Shl - shoal
Obstr - observation
Cov - covers
Wk - wreck
Subm - submerged
Dol - dolphin

VEGETATION:

Gr - grass
WH - woods, hard wood
WS - woods, soft wood
WM - woods mixed
B - brush
SH - scattered hardwood
SS - scattered softwood
SM - scattered mixed
O - orchard

BUILDINGS:

d - dwelling
b - barn

BUILDINGS(Cont'd)

Bo Ho - boat house
Ch - church
C.H. - courthouse
P.O. - post office
Sch - school
R R Sta - railroad station
Hosp - hospital

LANDMARKS & AIDS TO NAV:

TK - tank
TK (ELEV) - tank elevated
Stk - stack
Bn - beacon
Lt - light
Tr - tower
Rg - range
F Rg - front range
R Rg - rear range
Chy - chimney
Cup - cupola
S.Pipe - stand pipe
R.Tr - radio station
Gab - gable

BOUNDARIES:

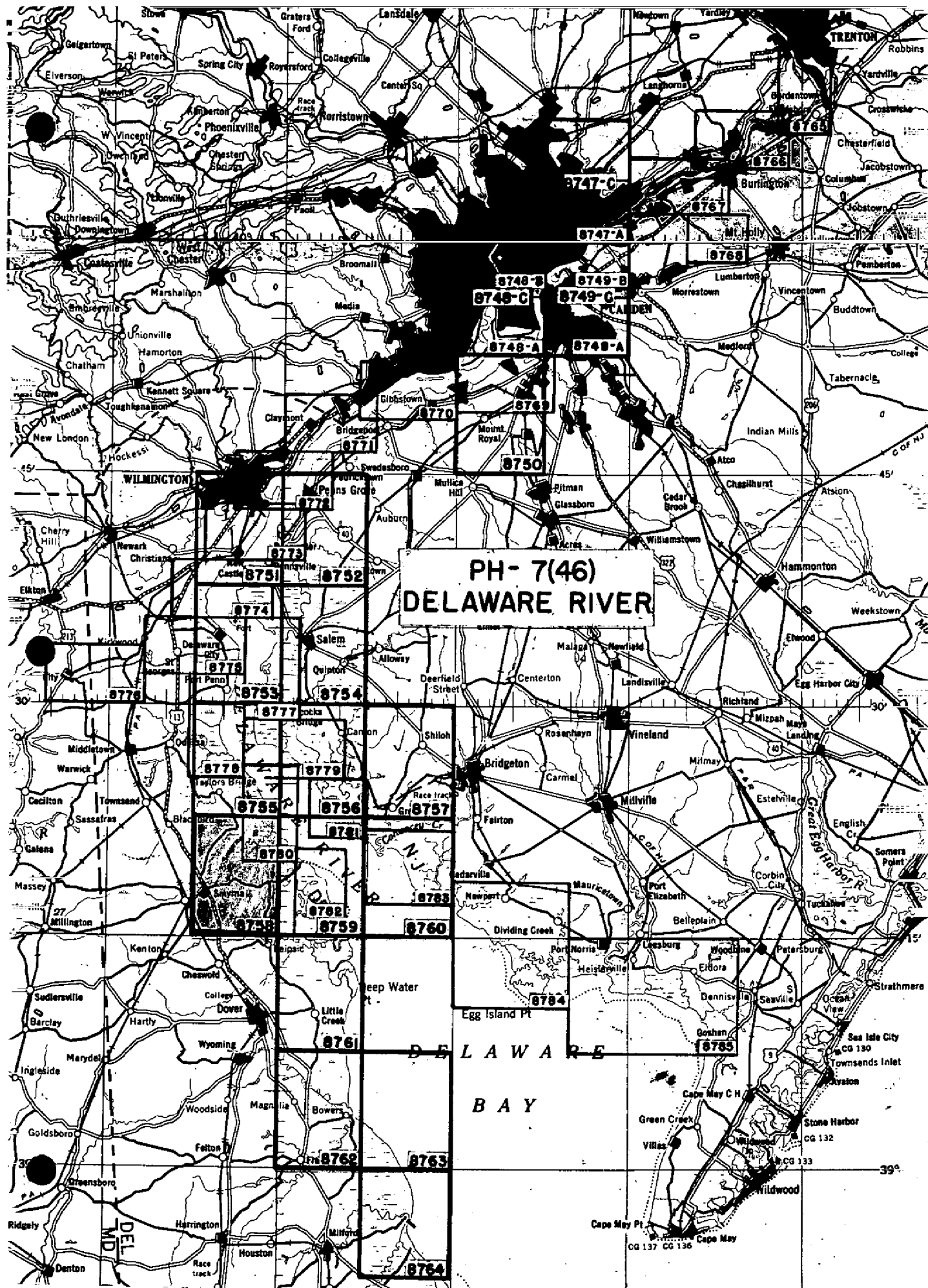
Bdry - boundary
Cem - cemetery
F - fence

BRIDGES:

Br - bridge
Culv - culvert
Cl - clearance
Hor - horizontal
Ver - vertical (above MHW)
Wo - wood
Conc - concrete

STATIONS:

H Sta - hydrographic station
BM - bench mark
T Sta - recoverable topo station
S Sta - substitute station
TBM - tidal bench mark
(d) - described
(dm) - described and marked



T-8758

39° 22' 5"

39° 22' 5"

37° 5'

75° 30'

Contoured by: J.A. Clear, Engr. Aid.

RIVER

DELAWARE
BAY

SMYRNA

U.S. Highway 13

Contoured by: R.E. Rawson, Engr. Aid.



SMYRNA, DEL.

Contoured by:
I. Y. Fitzgerald, Engr. Aid.

U.S. Highway 13

75° 30'

75° 30'

39° 15'

39° 15'

FIELD INSPECTION REPORT
T 8758 (39° 15' / 75° 30' / 7.5')
Project Ph-7 (47)
Sub-project C
E. L. Jones, Chief of Party

All phases of field work were completed in accordance with the Director's Instructions, Project Ph-7 (46) dated 25 March 1946, and Supplemental Instructions No. 1, dated 14 June, 1946, except for deviations herein noted.

- Filed in Division of Photogrammetry
Office Files.

The work was started early in May 1946, by I. Y. Fitzgerald, Engineering Aid. He completed the Shoreline Surveys, Horizontal Control Recovery and Identification, BM recovery and identification and Supplemental 4th order levels. R. E. Rawson, Photo. Aid, completed the southern half of the contouring and the writer, J. A. Clear, Engineering Aid, completed the contouring of the quadrangle as indicated on the attached sketch.

1. Description of the Area:

For the most part the land area is undulating with the elevation ranging from sea level to about 70 feet above Mean Sea Level.

Geologically the country is old with no prominent drainage patterns in the low lands or flood plains bordering the tidal zone. In the western portion of the quadrangle, the drainage pattern is more pronounced.

The entire area is a prosperous agricultural section, which is the principal industry of the area. There is some commercial fishing, but it is on a very small scale.

2. Completeness of Field Inspection:

The field inspection is felt to be adequate and complete. For full details refer to appropriate paragraph readings below

3. Interpretation of the Photographs:

Two sets of photographs were used, single lens 1/10,000 scale contact prints, for shoreline inspection and horizontal control identification, and 9 - lens 1/20,000 scale photos for vertical control identification, contouring and interior inspection.

Since photography was of the first part of March, 1946, no difficulty was encountered in the interpretation of photographic

details for the various phases of the work. All photographs filed in Division of Photogrammetry General Files.

4. Horizontal Control:

Twelve horizontal control stations were searched for or recovered, of these four were identified on the photographs either by the substitute station method or pricked direct. However, only one station, Smyrna, Methodist Episcopal Church Spire, need to be used as Horizontal Control according to Instructions for the project. Therefore, only one pricking card for Horizontal Control will be submitted.

5. Vertical Control:

Vertical control consisted of recovery and identification of existing bench marks on 9-lens photographs and establishing the following levels.

3rd order levels

Approximately 9.5 linear miles of 3rd order levels were completed during April 1946, by M. A. Stewart, Engineering Aid. Permanent Bench Marks were established at one mile intervals and identified on the photographs. Equipment and methods used were those as prescribed by the Division of Geodesy for 2nd order leveling.

4th order levels

About 90 linear miles of 4th order levels were completed during May, 1946. Elevations were determined by wye leveling methods to the nearest 0.01 foot. The maximum error of closure was 0.87 feet of error; all errors of closure greater than 0.20 feet were prorated throughout the line. At about 1/2 mile intervals spot elevations were established and identified on the 9-lens photographs.

6. Contours and Drainage:

Contouring was done in the field directly on 1/20,000 scale 9-lens photographs by planetable methods. The contour interval was 10 feet.

Preliminary to field work a stereoscopic examination of the photographs was made; drainage was delineated and other data entered on the photos. After field work was completed, another stereoscopic examination was made to check the shapes of contours.

7. Mean High Water Line:

The average range of tide is 6.0 feet.

8. Low Water Line:

In general the low water line was not delineated because of the difficulty of viewing the shoreline at Low Water. Where such visits were practical, it was generally noted that the low water line and apparent shoreline are synonymous because most banks are perpendicular to the water. In a few instances the low water line was found to be outside the apparent shoreline because storms causing the banks to slough off, created a mud plain.

9. Wharves and Shoreline Structures:

No comment necessary.

10. Details Offshore from High Water:

No comment necessary.

11. Landmarks and Aids to Navigation:

The Azimuth of Smyrna Range had previously been determined by triangulation. There is one new landmark to be charted.

All other data on landmarks and Aids to Navigation is listed on the accompanying form 567 and accompanying Chart Section.

Filed in Division of Charts.

12. Hydrographic Control:

Four recoverable topographic stations were established, identified on the photographs and described on Form No. 524. ^{by field edit}
Six additional recoverable topographic stations were established and described on Form No. 524. See "Notes to Office Reviewer" attached to this report.

13. Landing Fields and Aeronautical Aids:

None.

Form 524 cards filed in
Division of Photogrammetry
General Files.

14. Roads:

No comments necessary.

15. Bridges:

Only one bridge of any importance. A, 2 span, swing bridge over Smyrna River at Fleming's Landing. Pertinent data on bridge appears on Photo. D-1612.

16. Buildings:

No comments necessary.

17. Boundaries:

All boundaries were verified in the field and delineated on the photographs at the time of contouring.

18. Geographic Names: 2:1 ✓

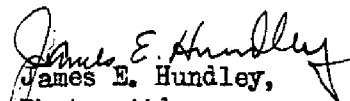
Geographic Name information was obtained by the author at the time of contouring. All geographic name information will be compiled into a special report prepared by Lowell I. Bass, Engineering Aid.

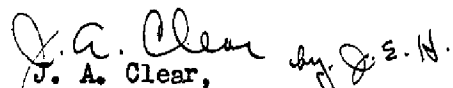
19. Coast Pilot Information:

Coast Pilot information was investigated during the course of field work, and a special project report compiled by George E. Varnadoe, Photogrammetrist. Report not submitted.


Submitted 30 August 1946

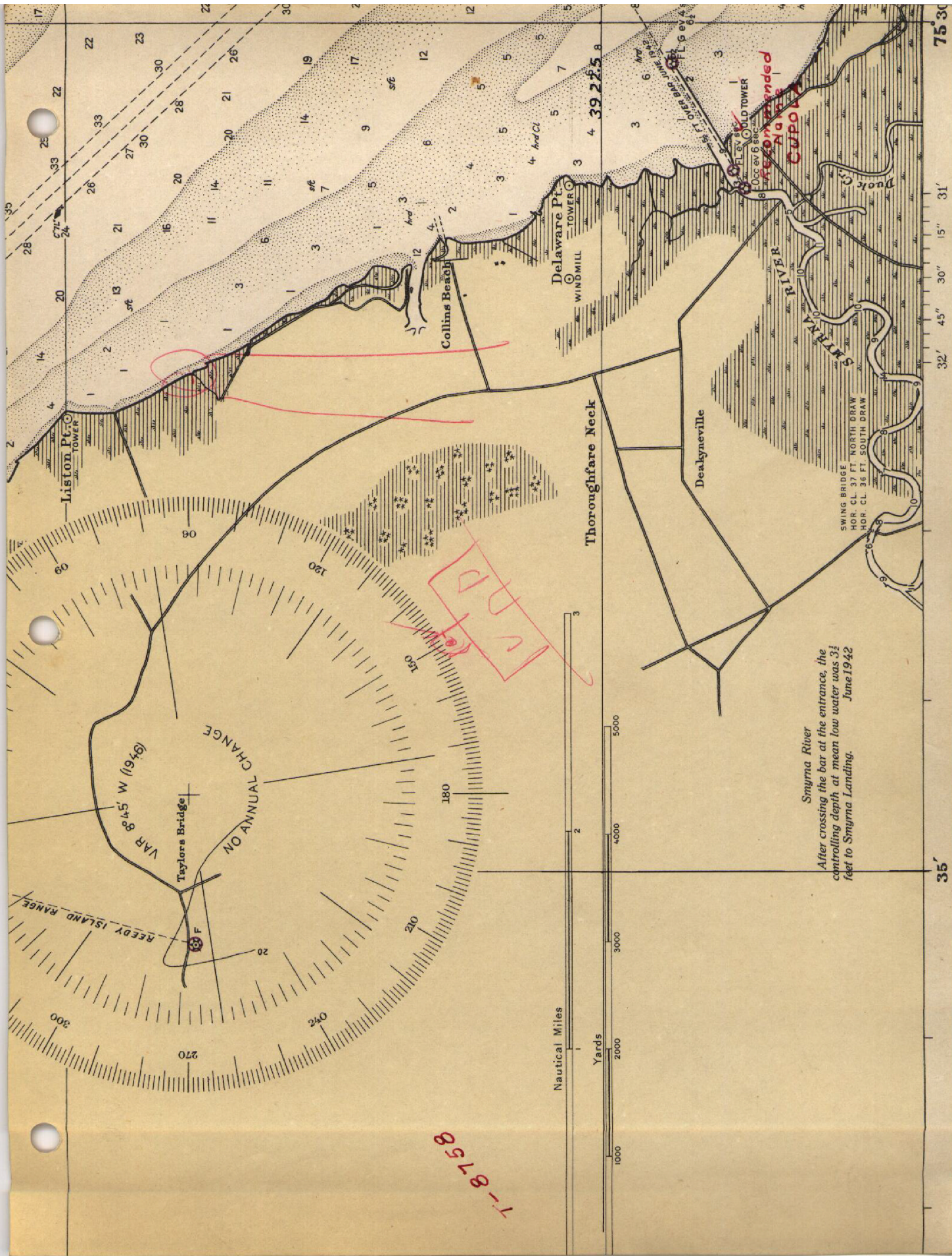
Field Review
18 September 1946


James E. Hundley,
Photo. Aid


J. A. Clear, by J. E. H.
Engineering Aid.

Approved 20 September 1946


Edmund L. Jones,
Chief of Party



COMPILATION REPORT

MAP MANUSCRIPT, SURVEY NO. T-8758

T-8758 (Smyrna Quadrangle) is one of ten topographic maps in Project No. Ph-7(46)C located along the Delaware River and Bay. These surveys are to be compiled in accordance with instructions dated 25 March 1946 and 19 July 1946 by graphic photogrammetric methods. The contouring will be compiled from data obtained by plane-table methods. All project instructions filed in Division of Photogrammetry office files.

26. CONTROL:

See radial plot report for layout of control in this area. A list of the stations on Form No. M-2388-12 is included in this report.

27. RADIAL PLOT:

See report for combined radial plot covering the areas of T-8755 to T-8759 inclusive, submitted to the Washington Office, 26 February 1947.

28. DELINEATION: ~~Report filed in Division of Photogrammetry General Files~~ Attached to Desc. Report T-8755

The compilation is in accordance with the written instructions pertaining to Project Ph-7(46), dated 19 July 1946.

The contours were traced directly from the field photographs.

For shoreline details at a larger scale refer to Survey No. T-8780.

30. MEAN HIGH WATER LINE:

The mean high water line on T-8758 was traced from a reduction of map manuscript survey No. T-8780, scale 1:10,000

31. MEAN LOW WATER LINE:

All of the mean low water line on T-8758 was traced from a reduction of map manuscript survey No. T-8780, scale 1:10,000.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE:

No comment.

33. WHARVES AND SHORELINE STRUCTURES:

No comment.

34. LANDMARKS AND AIDS TO NAVIGATION:

Refer to Form 567 attached to the descriptive report for Survey

No. T-8780 for data pertaining to one landmark shown on T-8758. Form 567's filed in Division of Charts.

Refer to Forms 567 attached to this report and to the field report for Quadrangle No. T-8758 for data pertaining to the three aids to navigation.

35. HYDROGRAPHIC CONTROL:

None.

36. BRIDGES:

All bridge information for the area covered by this report as listed in the U. S. Engineers "List of Bridges Over Navigable Waters in the U.S." dated July 1, 1941, was verified in the field; all clearances were carefully measured with a steel tape, and the published descriptions and clearances were found to be correct except for the following discrepancies, which were not reported to the Local District Engineer:

(Letter to the local Dist. Engr. being prepared by the Review Section) B 5/20/48

Bridge at:	Field Measurements	Listed Measurements
Fleming Landing, Del.		
Hor. Cl. left span	36.4 ft.	36. ft
right span	39.0, 37.7	37.3
Vert. Cl.	2.0 5.1	5.5
Smyrna, Northwest Branch		
Hor. Cl.	4 spans 80 ft. 2116.2	two 40' spans
Vert. Cl.	5. 5.6	2.7 ft.
Smyrna Landing		
Hor. Cl.	one span 27.4	(4 spans) 18' - center span
37. <u>GEOGRAPHIC NAMES:</u> Vert. Cl.	2.4	3.0

Geographic names have been taken from final name standards dated 12-9-46, furnished by the Washington Office. A list of the geographic names is attached to this report. List approved by L. Heck, Geographic Names Section, Division of Charts.

38. JUNCTIONS:

A satisfactory junction has been made with Survey No. T-8759 to the east. The junction will be made with Survey No. T-8755 to the north when that survey is compiled. No contemporary surveys exist to the south or west.

39. DISCREPANCY OVERLAY:

Descriptive and explanatory notes concerning doubtful topographic features have been lettered on the discrepancy overlay.

40. BOUNDARIES:

Legal boundary descriptions of the town of Smyrna, and of the District Boundaries were not furnished the compilation office; however, the field inspection party identified the boundaries of Smyrna on field photographs. The District Boundaries were delineated as shown on the U.S.G.S. Smyrna quadrangle.

Not available.
Verified by legal descriptions filed in Division of Photogrammetry General Files.

44. COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS:

T-8758 has been compared in detail, with the U. S. Geological Survey, Smyrna Quadrangle, scale 1:62,500 and found to be in good agreement, except the contours which are, in general, somewhat in disagreement with the U.S.G.S. Quadrangle.

45. COMPARISON WITH NAUTICAL CHARTS:

T-8758 has been compared to Nautical Charts No. 1218, scale 1:80,000, and No. 294, scale 1:40,000, and found to be in fair agreement.

The following topographic information shown on T-8758 is of sufficient importance to warrant immediate application to the chart:

None.

The following topographic details above the plane of mean high water are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

None.

Low water features are shown in part and will be completed by the hydrographic party.

Respectfully submitted:
9 June 1947

Florence M. Senasack
Photogrammetric Aid
Compilation and Descriptive
Report

Harry R. Rudolph
Supervisor

Joseph W. Vonasek
Photogrammetric Engineer
Photogrammetric Office
Review

Approved and Forwarded
11 June 1947

Thos. B. Baird
Officer in Charge
Baltimore Photogrammetric Office

NOTES TO OFFICE REVIEWER

T-8758 (39°15'/75°30'/7.5) Field Edit

Project PH-7 (46)

Sub-Division C

5. VERTICAL CONTROL *

The elevations for SM7, SM8, and SM9 in the vicinity of 39°19' latitude, 75°31' longitude are not known. The field notes for this series of 3rd order level BM's was not received in this office. The elevations have been added to the manuscript. They were taken from Form 45, Computation of 3rd Order Levels, Little Creek to Townsend, Line F-3 to F-5, Level No. 664

36. BRIDGES

A tide curve has been drawn for use in determining the vertical clearances for the bridges at Flemings Landing, Smyrna Landing, and Smyrna, Northwest Branch.

40. BOUNDARIES

Boundary Monuments Nos. 87, 88, 113, 124, 150, and 152 along the boundary line of Bombay Hook Migratory Water-Fowl Refuge have been radially plotted on the survey in accordance with the field edit identification. These monuments were also identified on Map No. 13 BOM. 19A-Bombay Hook National Wildlife Refuge, Kent County, Del. by the field edit party. The boundary line was then traced from the above mentioned map by use of the vertical projector.

The descriptions and geographic positions of these monuments are being submitted on Form No. 524.

Respectfully submitted

Gladys S. Nottenburg

Gladys S. Nottenburg
Cartographer (Photo.)

** There is evidence that BM J-14, 1946 does not exist. This is being verified by correspondence to the field. See letter of 7 June 1948 from Condr. Lipe to the assistant chief, Div. of Photogrammetry.*

Field Edit Report of Map Manuscript T-8758
Project Ph-7(46)
R. J. Sipe, Chief of Party

The field edit of this quadrangle was accomplished during the period 17 July to 31 July 1947 by Donald G. Flipppo, Photogrammetric Aid. All work was done in accordance with the field edit instructions for project Ph-7(46), dated 24 August 1945 and supplemental field instructions.

17. Boundary: Many discrepancies were found in the field inspector's location of the Bombay Hook Wild Life Refuge.

Boundary monuments for the refuge have been identified for correction of that boundary. A detailed map furnished by the Refuge manager has been included for transferring the boundary to the manuscript. Common points were shown on both the refuge map and the photographs.

46. Methods: All delineated features such as roads, structures, drainages, and contours were checked either visually by traveling on roads or trails or by planetable method.

Delineation and some additions were made directly on the field edit sheet. Some additions and corrections were noted on the photographs with a reference to the photographs on the field edit print. A legend to the symbols and to the colored ink used during the field edit is on the field edit prints.

47. Adequacy of the Compilation: Some compiled roads and trails were deleted during the field edit. These were, however, valuable to the field editor in many instances. Several small outbuildings had been compiled but these have been deleted. Many structures were added and many wooded swamps had not been properly interpreted by the compiler and have been corrected on the field edit print.

The relative position of compiled detail was found to be entirely satisfactory. With the addition of the field edit data to the manuscript, this map will be complete and accurate.

48. Accuracy Tests: One vertical accuracy test was made in this quadrangle.

The field edit party has made no attempt to verify the horizontal accuracy of this map.

49. Review of First Proof: The following named gentleman has expressed his willingness to review the first proof.

Mr. Wilbert Rawley
Leipsic, Delaware

Respectfully submitted,

Donald G. Flippo

Donald G. Flippo
Photogrammetric Aid
5 August 1947

GEOGRAPHIC NAMES

- Big Oak Corners ✓
- Bombay Hook Migratory Waterfowl Refuge ✓
National Wildlife
- Brenford
- Brick Store ✓
- Broadway Meadows ✓
- Chambersville ✓
- Corks Point Ditch ✓
- Deakynville ✓
- Delaware River Bay ✓
- Duck Creek ✓
- Dupont Boulevard U.S. No. 13 ✓
- Dutch Neck Crossroads ✓
- Eagles Nest Landing ✓
- Flemings Landing ✓
- Friendship Church M.E. ✓
- Hawkey Branch ✓
- Kent County ✓
- Lake Como ✓
- Leipsic River ✓

- Long Bridge ✓
- Mill Creek ✓
- New Castle County ✓
- Raymonds Neck ✓
- Raymonds Neck Road ✓
- Sawmill Branch ✓
- Serversons Neck ✓
- ~~Serversons School~~ (approved in names report) ✓
- Shorts Landing ✓
- Smyrna ✓
- Smyrna Landing ✓
- Smyrna River ✓
- Straight Ditch ✓
- Taylors Gut ✓
- Tent ✓
- Thoroughfare Neck ✓
- Walker ✓
- Whitehall Crossroads ✓

Add:

- Belmont Hall ✓
- Odd Fellows Cemetery ✓
- State Welfare Home ✓
- Districts 1 and 2, 3, Kent Co. ✓
- District 15, New Castle Co. ✓
- State Nos. 6, 9. ✓
- Pennsylvania R.R. ✓

Names preceded by • are
approved. 5/17/48.
L. Heck

Division of Photogrammetry
Review Report of
Topographic Map Manuscript T-8758

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

26. Control.--The triangulation station name Smyrna, Presbyterian Church, Spire, 1933 is incorrect as listed on the attached form M-2388-12. The correct name is Smyrna, Methodist Episcopal Church, Spire, 1933, and is so listed on a revision copy of page 62, Acc. No. G 1751, dated 10-2-47. Refer to the letter of 17 October 1946 on Triangulation attached to the radial plot report for T-8755 to T-8759, inclusive.

The elevations for benchmarks SM7, SM8, and SM9, were added to the manuscript. They were not available at the time of compilation.

36. Bridges.--The data for the bridge at Smyrna Landing was added to the listing in the descriptive report. This bridge is listed in the U. S. Engineers "List of Bridges Over Navigable Waters in the U. S."

The field edit has noted that the river above the bridge at Smyrna Landing is not navigable. The bridge data for the bridge above Smyrna Landing at Smyrna, Northwest Branch were not deleted from the descriptive report since this bridge is listed in the U.S.E. bridge list..

43. Comparison with Previous Surveys.--

T-63	1:20,000	1841
T-141	1:10,000	1841
T-1547 a&b	1:20,000	1882-3
T-3088	1:20,000	1910
T-4667	1:10,000	1931-2

These surveys are superseded by the map manuscript in all common areas.

44. Comparison with Existing Topographic Surveys.--

Dover, Del.-Md. N.J., U.S.G.S., 1:125,000, 1896
Smyrna, Del.-N.J., U.S.G.S., 1:62,500, 1926-7

45. Comparison with Nautical Charts.--

Chart No. 294	1:40,000	11-17-47
Chart No. 1218	1:80,000	12-8-47

This map manuscript has not been applied to nautical charts 294 and 1218.

48. Vertical Accuracy Test.--The vertical accuracy test for this quadrangle meets the project specification. This map complies with the national standard map accuracy requirements.

Reviewed by:

K. N. Maki

K. N. Maki
5-18-48

APPROVED:

S. V. Griffith

Chief, Review Section
Div. of Photogrammetry

Sturtevant

Chief, Nautical Chart Branch
Div. of Charts

K. T. Adams

Chief, Div. of Photogrammetry

C. K. Green

Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8758

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.