

8772

Diag. Cht, No. 294 & 295-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PHOTOCRA M E T R I C S H O R E L I N E

Field No. Ph-7(16)-C Office No. T-8772

LOCALITY

State NEW JERSEY, DELAWARE

General locality DELAWARE RIVER

Locality CHRISTINA RIVER TO DELAWARE CEMENT CO

194 6

CHIEF OF PARTY

E. L. Jones, Chief of Field Party.

T. B. Reed, Balti. Photogrammetric Office.

LIBRARY & ARCHIVES

DATE December 27, 1951

8-1870-14(1)

2228

SURVEY NO. T-8772

[illegible]

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.

mistakenly recovered. In orienting photo 2053 (3-12-46) under the manuscript there now appears a sizeable excavation where the tank should be seen. Nine-lens photo 15550 (3-21-46) gives no better clue to the missing tank. The recovery note in the Descriptions of Triangulation Stations changes the original description by giving different ground distances. This station should be considered lost.

69. Classified Information.-The manuscript contains classified information and has been designated "RESTRICTED" accordingly. Unclassified, 4-24-50, CS61D-SMP 061 Col. E.A. Barlow.

70. Contemporary Topographic Surveys.-

T-8751	1:20,000	(compiled 1948)
T-8752	1:20,000	(compiled 1948)

All of the area of this shoreline manuscript is included in the above listed topographic quadrangles (not reviewed or registered as of the date of this shoreline review) to be published by the U. S. Geological Survey at 1:24,000.

Reviewed by:

L. Martin Gazik  
L. Martin Gazik

APPROVED BY:

S. V. Griffith  
Chief, Review Section B 12/1/51  
Div. of Photogrammetry

H. C. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

W. M. Scaife  
Chief, Div. of Coastal Surveys

Review Report T-8772  
Shoreline Manuscript  
November 17, 1949

62. Comparison with Registered Topographic Surveys.-

T-1507 b	1:5,000	1881
T-1509 a,b	1:5,000	1881
T-1545	1:5,000	1881

The above surveys have been superseded by this map for nautical chart purposes.

63. Comparison with Maps of Other Agencies.-

Wilmington and Vicinity, Del., 1942 edition -  
Geological Survey.

64. Comparison with Contemporary Hydrographic Surveys.-

None

65. Comparison with Nautical Charts.-

Chart 294	1:40,000	Revised to April 1949
295	1:40,000	Revised to June 1948

No significant differences were noted.

66. Adequacy of Manuscript.-This compilation complies with the National Standards of Map Accuracy.

67. Range Lights.-Since both BELLEVUE RANGE LIGHTS are triangulation stations and about 1.3 miles apart the azimuth was computed as  $35^{\circ}27'40''$ , or, to the nearest minute, as  $35^{\circ}28'$ . Two points on range, determined by sextant readings given in T-8751, varied insignificantly from the computation. Nevertheless, only the better of the two was retained on the manuscript.

Sextant readings for two points on CHERRY ISLAND RANGE have not been found to be able to check the discrepancy noted under item 34 of the Compilation Report included herein. The point mentioned as not falling on the range has been rejected. *See Descriptive Report T-8770.*

68. Triangulation Stations.-The triangulation station, WILMINGTON, EDGEWOOD IRON CO., SQUAT WATER TANK, 1933, is reported in the Radial Plot Report and the list of horizontal control following the report as recovered but not identified. It is believed that a small standpipe 50 m. north of the plotted position of the triangulation was

# GEOGRAPHIC NAMES

T-8772

- Bank Tower
- Baynard Blvd.
- Bellefonte
- Brandywine — ?
- Brandywine ~~Creek~~ River
- Cherry Island
- Cherry Island Flats (not delineated)
- Christiana Ave.
- Christina River
- Church St.
- Delaware Ordnance Depot
- Delaware River
- DuPont Ave. U.S. 13
- Edgemoor
- Eleventh St.
- Governor Printz Boulevard
- Hay Road
- Lancaster Ave.
- Landlith
- ~~Loddell~~ Canal Loddell
- Market St.
- Millside
- Northeast Blvd.
- Oldmans Point
- Old Swedes Church
- Pennsylvania R. R.
- Pennsylvania R. R. Station
- ~~Pennsgrove~~ PENNS GROVE (See T-8752, L.M.G.)
- Shellpot Creek
- South Pennsgrove
- The Causeway
- Upper Penns Neck (area much larger than shown here)
- Washington St.
- Wilmington
- Wilmington Ferry
- Wilmington Marine Terminal
- Reading R.R.

Names preceded by • are  
approved. L. Heck  
11/24/48

24 April 1950

MEMORANDUM FOR: DIRECTOR, U. S. COAST AND GEODETIC SURVEY, DEPARTMENT  
OF COMMERCE

ATTN: Administrative Planning Section

SUBJECT: Classification Clearance

1. Reference is made to your memorandum, file No. 731-aal, dated 12 December 1949, forwarding seventeen (17) maps for security clearance. Twelve (12) maps were returned to your agency by Assistant Chief of Staff, G-2 letter dated 17 March 1950.

2. Forwarded herewith are maps Nos. T-8880, T-8882, and T-8772. There is no objection to the publication of these maps as unclassified.

3. Follow-up action has been taken to expedite the processing of maps Nos. T-8542 and T-8543 which are still outstanding.

FOR THE ASSISTANT CHIEF OF STAFF, G-2:

3 Incls

1. Map No. T-8880
2. Map No. T-8882
3. Map No. T-8772

ERNEST A. BARLOW

Colonel, GSC

Chief, Security & Training Division

**TO BE CHARTED  
TO BE EXCLUDED**

**STRIKE OUT ONE**

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland January 20, 1948

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks, be charted on ~~the~~ the charts indicated.

The positions given have been checked after listing by Raymond Glaser

Thos. B. Reed

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**TO BE CHARTED  
FOR EXHIBITION**

**STRIKE OUT ONE**

~~CONFIDENTIAL~~ } STRIKE OUT ONE

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on ~~(attached drawing)~~ the charts indicated.

Baltimore, Maryland January 20, 19 48

The positions given have been checked after listing by Raymond Glaser

Thos. E. Reed

Chief of Party.

STATE		DELAWARE		POSITION										METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION	HARBOR CHART			INSHORE CHART			OFFSHORE CHART			CHARTS AFFECTED
CHARTING NAME No.	Light	DESCRIPTION	Name	SIGNAL NAME	LATITUDE		D. M. METERS		°		LONGITUDE		D. P. METERS		DATUM	Rad. Plot	1946	X	X	X	X	X	295			
					°	'	°	'	°	'	°	'	D. P. METERS													
1569	CHERRY IS.	RANGE FRONT LIGHT			39	45	68	75	29	957	NA:1927												295			
1570	CHERRY IS.	RANGE REAR LIGHT			39	45	1312	75	29	582	"												295			
1715	CHRISTINA RIVER	RANGE FRONT LT			39	43	663	75	31	1382	"												294, 295			
1716	CHRISTINA RIVER	RANGE REAR LT			39	43	763	75	32	189	NA:1927												294, 295			
1580	EDGEWOOD COAST	GUARD BUREAU LIGHT			39	45	31	75	29	907	"												295			

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



# LIST OF DESCRIPTIONS OF PHOTO HYDRO POINTS

Number	Description	Pricked on Photo. Number
5201	Corner Concrete Seawall	1914
5202	W. Gable Waiting Room	1913
7201	S W end of Pile	1911

45. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-8772 has been compared with Nautical Chart No. 294, scale 1:40,000 and No. 295 scale, 1:40,000. Common areas were found to be in good agreement. The following topographic information shown on T-8772 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  
January 16, 1948

Oliver D. Perkins  
Engineering Aid  
Compilation and Descriptive Report

Harry R. Rudolph  
Supervisor

Raymond Glaser  
Cartographer  
Photogrammetric Office  
Reviewer

Approved and forwarded  
23 January 1948

Thos. B. Reed  
Thos. B. Reed,  
Officer in Charge  
Baltimore Photogrammetric Office

36. LANDING FIELDS AND AERONAUTICAL AIDS

None

37. GEOGRAPHIC NAMES <sup>814 ✓</sup>

Geographic names were taken from final name standards dated 12/10/46, 12/18/46, and 12/19/46, furnished by the Washington Office. A list of the geographic names for Survey No. T-8772 is attached to this report. The name "Cherry Island Flats" appears in this list, but the feature was not visible on the photographs and could not be delineated on the manuscript.

~~A discrepancy between final name standards has been noted. The disagreement is between "Brandywine Creek" and "Brandywine River". See geographic name list as approved & included herein.~~

38. BRIDGES *Discrepancies clarified by Field List for T-8751.*

~~The field party furnished measurements of clearances for six bridges in the area of this survey. A comparison of this data with the U. S. Engineers "List of Bridges Over Navigable Waters in the U. S." dated 1 July 1941, the U. S. C. & G. S. United States Coast Pilot, fourth edition 1937, and Nautical Chart No. 294, revealed discrepancies in horizontal clearances of two, 2 span railroad swing bridges located approximately 4 miles above the mouth of the Christina River. The discrepancies in horizontal clearances are as follows:~~

	Field Inspection		Bridge List		Coast Pilot		Nautical Chart No. 294	
Spans	East	West	East	West	East	West	East	West
Northerly Bridge	67'	66.5'	67.3'	62.5'	62'	67'	67'	62'
Southerly Bridge	66.6'	57.3'	57.3'	66.5'	66.5'	57.3'	57'	66'

39. JUNCTIONS

The junctions to the north with Survey No. T-8771 and to the south with Survey No. T-8773 have been made and are in good agreement.

There are no contemporary surveys to the east or to the west.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

Survey No. T-8772 has been compared in detail with the U. S. Geological Survey, Wilmington Quadrangle, Scale 1:62,500 and the U. S. Geological Survey, Wilmington Quadrangle, scale 1:31,680. They were found to be in good agreement with the manuscript.

30. MEAN HIGH WATER LINE

The mean high water line was delineated from single lens field photographs (ratio prints, scale 1:10,000) in accordance with the field identification shown thereon.

30a. APPARENT SHORELINE

The indefinite shore line along the offshore edge of grass in water and marsh was delineated in accordance with the field inspection.

31. LOW WATER AND SHOAL LINES

No definite mean low water line has been identified on the field photographs. The approximate low water line has been compiled only in those areas where it was field inspected. It is shown with the conventional dotted line symbol.

~~No shoal lines have been identified or compiled.~~

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE

The field inspection data was adequate for interpretation of details offshore from the high water line.

33. WHARVES AND SHORELINE STRUCTURES

All shoreline structures have been delineated in accordance with field data.

34. LANDMARKS AND AIDS TO NAVIGATION

*See item 67 in Review Report*

Four (4) three point sextant fixes were taken by the field party to determine the azimuth of navigational ranges on Bellvue Range and on Cherry Island Range. After carefully plotting and checking these points, it was found that the second point on the Cherry Island range was actually not on range but lay close to a line passing through Cherry Island Range Rear Light and Edgemoor U. S. Coast Guard Depot Wharf Light. The plotted position of this second point was not altered, but inasmuch as it fell without the limits of the sheet, a point within the sheet limits was set on a line determined by the plotted point and Cherry Island Range Rear Light.

See Form No. 567 for list of Landmarks and Aids to Navigation submitted with this report.

35. HYDROGRAPHIC CONTROL

Three (3) photo hydro points have been identified on field photographs and plotted on the manuscript. A descriptive list of the photo hydro points has been compiled and is attached to this report.

COMPILATION REPORT

SHORELINE MANUSCRIPT, SURVEY NO. T-8772

T-8772 is one of 12 shoreline manuscripts 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.

26. CONTROL

See layout of control submitted to the Washington Office, 12 September 1947. A list of stations on form No. M-2388-12 is included in this report.

27. RADIAL PLOT *included in this report*

Refer to the report for the ~~individual radial plot covering the area of Survey No. T-8772~~, which was submitted to the Washington Office 12 September 1947.

28. DELINEATION

The compilation is in accordance with the written instructions pertaining to Project No. Ph-7(46)C dated, 19 July 1946. Cherry Island Flats was not visible on the photographs and could not be delineated on the manuscript.

The ferry slip of the "Wilmington Ferry" at Pennsgrave has been delineated on the manuscript, but the ferry slip at its apparent destination, on the south side and near the mouth of the Christina River, has been abandoned and no new location has been identified by the field party. *Pennsgrave has communication with Wilmington and Philadelphia by steamer during the summer. page 127, U.S. Coast Pilot, Atlantic Coast, Section C. 1949.*  
For interior details see descriptive reports for topographic surveys Nos. T-8751 and T-8752.

29. SUPPLEMENTAL DATA

Pennsylvania Railroad layout blueprints.

$\frac{V3}{32}$ ,  $\frac{V3}{33}$  R/W and track map, Philadelphia, Baltimore & Washington RR.  
Shellpot Branch

$\frac{V3}{8}$  Philadelphia, Baltimore & Washington RR, Maryland Division.



8772

PROJECT NO. Ph-7-46-C

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\lambda$ -COORDINATE LONGITUDE OR $\alpha$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
WILMINGTON, DELAWARE POWER & LIGHT CO., GAS PLANT STACK, 1933	G-1751 Pg. 114	N.A. 1927	39° 44' 10.014"				308.8	(1511.6)		
WILMINGTON, DELAWARE FLOOR PRODUCTS CO., STACK, 1933	G-1751 Pg. 119	"	75° 33' 45.009"				1071.8	(356.9)		
WILMINGTON, DELAWARE FLOOR PRODUCTS CO., STACK, 1933	G-1751 Pg. 119	"	39° 43' 34.083"				1051.2	(799.3)		
WILMINGTON, DELAWARE FLOOR PRODUCTS CO., STACK, 1933	G-1751 Pg. 119	"	75° 32' 09.340"				222.4	(1206.5)		
WILMINGTON, DELAWARE MALL IRON WORKS, REDBRICK STACK, 1933	G-1751 Pg. 119	"	39° 43' 24.257"				748.1	(1102.3)		
WILMINGTON, DELAWARE MALL IRON WORKS, REDBRICK STACK, 1933	G-1751 Pg. 119	"	75° 32' 25.947"				618.0	(811.0)		
WILMINGTON, THE PYRITES CO., NORTH STACK, 1933	G-1751 Pg. 119	"	39° 43' 16.863"				520.1	(1330.4)		
WILMINGTON, THE PYRITES CO., SOUTH STACK, 1933	G-1751 Pg. 120	"	75° 31' 59.290"				1412.1	(16.9)		
WILMINGTON, THE PYRITES CO., SOUTH STACK, 1933	G-1751 Pg. 120	"	39° 43' 12.982"				400.4	(1450.1)		
WILMINGTON, MARINE TERMINAL WATER TANK, 1933	G-1751 Pg. 120	"	75° 32' 01.714"				40.8	(1388.2)		
EDGEMOOR (U.S.E.) 1900	G-1664 Pg. 78	"	39° 43' 06.100"				188.1	(1662.3)		
EDGEMOOR (U.S.E.) 1900	G-1664 Pg. 78	"	75° 31' 40.063"				954.2	(474.9)		
EDGEMOOR (U.S.E.) 1900	G-1664 Pg. 78	"	39° 45' 03.059"				94.3	(1756.2)		
EDGEMOOR (U.S.E.) 1900	G-1664 Pg. 78	"	75° 29' 41.559"				989.4	(439.0)		
DELAWARE ORDINANCE DEPOT SQUAT SILVER WATER TANK, 1933	G-1751 Pg. 113	"	39° 45' 00.097"				3.0	(1847.5)		
DELAWARE ORDINANCE DEPOT SQUAT SILVER WATER TANK, 1933	G-1751 Pg. 113	"	75° 26' 57.877"				1377.9	(50.5)		
PENNS GROVE, STAND- PIPE, 1933	G-1751 Pg. 118	"	39° 44' 07.254"				223.7	(1626.8)		
PENNS GROVE, STAND- PIPE, 1933	G-1751 Pg. 118	"	75° 27' 51.593"				1228.5	(200.2)		

1 FT = 3048006 METER

1 FT. = .3048006 METER *L.A. Senasack*  
COMPUTED BY: L.A. SENASACK

COMPUTED BY: L.A. SENASACK

DATE 2/4/17

CHECKED BY: G. O. Fellers

DATE Feb. 4, 1947

44-38861-12

MAP T. 87.72

PROJECT NO Ph-7-46-G

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE	OR y-COORDINATE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)	FORWARD	(BACK)	
WILMINGTON, EDGE- WOOD IRON CO. SQUAT WATER TANK, 1933	G-1751 Pg. 116	N.A. 1927	39° 44'	44.850"	(50.541)		1383.2	(467.2)	1.037 - L.M.G.
WILMINGTON, NEW CASTLE LEATHER CO. WATER TANK, 1933	G-1751 Pg. 117	"	75° 30'	17.063"	(23.809)		406.3	(1022.2)	
WILMINGTON MUNICI- PAL BLDG. NORTH FLAGPOLE, 1933	G-1751 Pg. 116	"	39° 44'	44.47"			1371.5	(479.0)	
WILMINGTON MUNICI- PAL BLDG. SOUTH FLAGPOLE, 1933	G-1751 Pg. 116	"	75° 32'	36.83"			876.9	(551.6)	
WILMINGTON GRACE M.E. CHURCH SPIRE 1933	G-1751 Pg. 116	"	39° 44'	44.211"			1363.5	(487.0)	
WILMINGTON, AMERICAN CAR & FOUNDRY CO. SOUTHEASTERLY TWIN STACK, 1933	G-1751 Pg. 118	"	75° 32'	47.464"			1130.1	(298.4)	
WILMINGTON, AMERICAN CAR & FOUNDRY CO. BOTTLE SHAPED STACK 1933	G-1751 Pg. 118	"	39° 44'	42.681"			1316.3	(534.2)	
WILMINGTON, AMAL- GAMATED LEATHER CO. BLACK WATER TANK, 1933	G-1751 Pg. 117	"	75° 32'	48.498"			1154.7	(273.8)	
WILMINGTON ST. HEDWIG'S CHURCH NORTH SPIRE, 1933	G-1751 Pg. 115	"	39° 44'	45.911"			1415.9	(434.5)	
WILMINGTON, ST. HEDWIG'S CHURCH SOUTH SPIRE, 1933	G-1751 Pg. 115	"	75° 33'	07.849"			186.9	(1241.6)	
WILMINGTON ASSO- CIATED LAUNDRIES STACK, 1933	G-1751 Pg. 117	"	39° 44'	23.82"			621.3	(1229.2)	
WILMINGTON, ST. MARY'S CHURCH DOME, 1933	G-1751 Pg. 117	"	75° 32'	14.035"			334.2	(1094.5)	
			39° 44'	23.82"			734.6	(1115.8)	
			75° 32'	04.20"			100.0	(1328.6)	
			39° 44'	27.073"			835.0	(1015.5)	
			75° 33'	42.383"			1009.1	(419.5)	
			39° 44'	25.136"			775.2	(1075.2)	
			75° 33'	58.985"			1404.4	(24.2)	
			39° 44'	24.703"			761.9	(1088.6)	
			75° 33'	59.279"			1411.5	(17.1)	
			39° 44'	25.609"			789.8	(1060.7)	
			75° 33'	22.888"			545.0	(883.6)	
			39° 44'	20.55"			633.8	(1216.7)	
			75° 32'	40.11"			955.1	(473.6)	

1 FT. = 3048006 METER

COMPUTED BY L. A. Senasack

L. A. Senasack

DATE

2/4/47

CHECKED BY G. O. Fellers

DATE

Feb. 4, 1947

M-2388-12



MAP T. 8772

PROJECT NO. PH-7-46-C

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						FORWARD	(BACK)	
		Stations Recovered but not Identified						
PARK								
WILMINGTON, ROCKFORD	G-1751 ✓	N.A.	39° 46' 02.193"			67.6	(1782.9)	
MUNICIPAL WATER WORKS, STONE WATER TOWER, 1933	Pg. 112 ✓	1927	75° 34' 29.986"			713.7	(714.4)	
WILMINGTON, GREEN HILL PRESBYTERIAN CHURCH SPIRE, 1933	G-1751 ✓ Pg. 112	"	39° 45' 49.848"			1537.4	(313.7)	
			75° 35' 02.028"			48.3	(1379.9)	
WILMINGTON, RHOADS BELT CO., WATER TANK, 1933	G-1751 ✓ Pg. 113	"	39° 45' 20.074"			619.1	(1231.4)	
			75° 34' 17.192"			409.3	(1019.0)	
WILMINGTON, EIGHTH STREET BAPTIST CHURCH SPIRE, 1933	G-1751 ✓ Pg. 114	"	39° 45' 04.451"			137.3	(1713.2)	
			75° 34' 07.241"			172.4	(1256.0)	
WILMINGTON, WILTEX CO. BRICK STACK, 1933	G-1751 ✓ Pg. 114	"	39° 45' 05.505"			169.8	(1680.7)	
			75° 32' 22.368"			532.5	(895.9)	
WILMINGTON, DELAWARE POWER & LIGHT CO., RED BRICK STACK, 1933	G-1751 ✓ Pg. 115	"	39° 45' 00.619"			19.1	(1831.4)	
			75° 32' 29.508"			702.5	(725.9)	
WILMINGTON, DELAWARE POWER & LIGHT CO., WATER TANK, 1933	G-1751 ✓ Pg. 115	"	39° 45' 00.341"			10.5	(1839.9)	
			75° 32' 25.295"			602.2	(826.2)	
WILMINGTON, DELAWARE POWER & LIGHT CO., YELLOW BRICK STACK, 1933	G-1751 ✓ Pg. 115	"	39° 44' 59.220"			1826.4	(24.1)	
			75° 32' 25.914"			616.9	(811.5)	
WILMINGTON, LITTLE SISTERS OF THE POOR, CUPOLA WITH CROSS, 1933	G-1751 ✓ Pg. 113	"	39° 45' 00.328"			10.1	(1840.3)	
			75° 34' 27.953"			665.5	(762.9)	
WILMINGTON, BAVARIAN CO. TOWER, 1933	G-1751 ✓ Pg. 115	"	39° 44' 54.536"			1681.9	(168.5)	
			75° 34' 08.548"			203.5	(1224.9)	
WILMINGTON, PENNSYLVANIA RAILROAD SHOPS, TALL BRICK STACK, 1933	G-1751 ✓ Pg. 116	"	39° 44' 46.502"			1434.2	(416.3)	
			75° 31' 13.954"			332.2	(1096.3)	

1 FT. = 3048006 METERS

COMPUTED BY: L.A. Senasack

L.A. Senasack

DATE 2/4/47

CHECKED BY: G. O. Fellers

DATE Feb. 4, 1947

M-2388-12

## SCALE FACTOR

1 FT. - 3048006 METER *Senasack*  
COMPUTED BY *L.A. Senasack*  
DATE *2/1/47*  
CHECKED BY *G. O. Fellers*  
DATE *Feb. 4, 1947*  
M. 2388-12

MAP T. 8772

PROJECT NO. PH-7-46-C

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD (BACK)		FORWARD (BACK)	FORWARD (BACK)
<i>Page 10 of 10 Stations recovered and identified</i>							
<i>2 from N.J. C.P. List</i>							
GREEN, 1933	G-1664 Pg. 57	N.A. 1927	39° 46' 08.616"	265.7		(1584.8)	
GREEN, 1933		"	75° 30' 17.390"	413.9		(1014.2)	
Ref. Mk. No. 1		"	39° 46' 08.022"	247.4		(1603.1)	
		"	75° 30' 16.693"	397.3		(1030.8)	
MARCUS HOOK REAR	G-1751	"	39° 45' 43.630"	1345.6		(504.9)	
RANGE, 1933	Pg. 113	"	75° 30' 12.718"	302.7		(1125.5)	
RODNEY, 1933	G-1664 Pg. 73	"	39° 45' 04.162"	128.4		(1722.1)	
		"	75° 33' 55.701"	1326.1		(102.3)	
SUB. STA. RODNEY		"	39° 45' 04.136"	136.8		(1713.7)	
		"	75° 33' 55.824"	1329.0		(99.4)	
WILMINGTON, SACRED HT CHURCH SPIRE, 1933	G-1751 Pg. 114	"	39° 44' 52.299"	1613.0		(237.5)	
WILMINGTON, EDMONDSON CHURCH SPIRE, 1933	G-1751 Pg. 116	"	75° 33' 16.756"	398.9		(1029.6)	
WILMINGTON, AVERY CAR & FOUNDRY CO. NORTHWESTLY, 1933	G-1751 Pg. 118	"	39° 44' 20.431"	1197.5		(652.9)	
TWIN STACK, 1933	G-1751 Pg. 117	"	75° 32' 14.663"	266.2		(1162.3)	
WILMINGTON, H & H CORP. LIGHT BROWN STACK, 1933	G-1751 Pg. 117	"	39° 44' 18.131"	630.1		(1220.3)	
BELLEVUE FRONT RANGE	G-1751 Pg. 118	"	75° 33' 27.778"	349.1		(1079.6)	
LT., 1933		"	39° 44' 06.931"	559.2		(1291.3)	
WILMINGTON, DELAWARE FLOOR PRODUCTS CO., WATER TANK, 1933	G-1751 Pg. 119	"	75° 30' 15.612"	661.4		(767.3)	
		"	39° 43' 34.317"	213.8		(1636.7)	
		"	75° 32' 08.565"	371.8		(1057.0)	
		"		1058.4		(792.1)	
		"		204.0		(1224.9)	

1 FT. = 3048006 METERS

COMPUTED BY L. A. Senasack

DATE 2/3/47

CHECKED BY G. O. Fellers

DATE Feb. 4, 1947

M-2388-12

NO.	NAME OF STATION	METHOD OF IDENTIFICATION
404	WILMINGTON, SOUTHWEST TRANSMISSION TOWER, 1933	Not. rec. Pricked direct in compilation office.
403-A	WILMINGTON, DELAWARE FLOOR PRODUCTS CO., WATER TANK, 1933	Pricked direct
403-B	WILMINGTON, DELAWARE FLOOR PRODUCTS CO., STACK, 1933	Rec. Pricked direct in compilation office.
402	WILMINGTON, EASTERN MALL IRON WORKS BRICK STACK, 1933	Rec. Pricked direct in compilation office.
396	BELLEVUE REAR RANGE LT., 1933	Identified as a non-floating aid to navigation (Pricked direct)
397	CHRISTINA NORTH ENTRANCE LT., 1933	" " " "
398	CHRISTINA SOUTH ENTRANCE LT., 1933	" " " " Lost
400-A	WILMINGTON, THE PYRITES CO., NORTH STACK, 1933	Rec. Pricked direct in compilation office.
400-B	WILMINGTON, THE PYRITES CO., SOUTH STACK, 1933	Rec. Pricked direct in compilation office.
401	WILMINGTON, MARINE TERMINAL, WATER TANK, 1933	Rec. Pricked direct in compilation office.
351	DEPOT, 1933	Sub. Sta.
352	DELAWARE ORDNANCE DEPOT, LOOKOUT TOWER, 1933	Not. rec. Pricked direct in compilation office.
356	DELAWARE ORDNANCE DEPOT, SMALL WHITE WATER TANK, 1933	Not recovered
359A	EDGEWOOD 2, 1933	Sub. Sta.
359B	EDGEWOOD (U.S.E.) 1900	Rec. Not identified
355	DELAWARE ORDNANCE DEPOT, SQUAT SILVER WATER TANK, 1933	Rec. Pricked direct in compilation office.

NO.	NAME OF STATION	METHOD OF IDENTIFICATION
385A	WILMINGTON, MUNICIPAL BUILDING NORTH FLAG-POLE, 1933	Rec.- Pricked direct in compilation office.
385B	WILMINGTON, MUNICIPAL BUILDING SOUTH FLAG-POLE, 1933	Rec. - Pricked direct in compilation office.
383	WILMINGTON, GRACE M.E. CHURCH SPIRE, 1933	Rec. - not identified
393A	WILMINGTON, AMERICAN CAR & FOUNDRY CO., NORTHWESTERLY TWIN STACK, 1933	Pricked direct
393B	WILMINGTON, AMERICAN CAR & FOUNDRY CO., SOUTHEASTERLY TWIN STACK, 1933	Rec. Pricked direct in compilation office.
394	WILMINGTON, AMERICAN CAR & FOUNDRY CO., BOTTLE SHAPED STACK, 1933	Rec. Pricked direct in compilation office
388	WILMINGTON, AMALGAMATED LEATHER CO., BLACK WATER TANK, 1933	Rec. not identified
364	PENNS GROVE, STANDPIPE, 1933	Rec. Pricked direct in compilation office
363	PENNS GROVE ST. PAUL'S CHURCH, SPIRE, 1933	Pricked direct
AI	WILMINGTON, A.I. DUPONT ESTATE, FINIAL OF GRAY CONICAL ROOFED WATER TANK, 1933	Not rec. Pricked direct in compilation office
387A	WILMINGTON, ST. HEDWIG'S CHURCH, NORTH SPIRE, 1933	Rec. Pricked direct in compilation office
387B	WILMINGTON, ST. HEDWIGS CHURCH, SOUTH SPIRE, 1933	Rec. Not identified
389	WILMINGTON, ASSOCIATED LAUNDRIES, STACK, 1933	Rec. Not identified
392	WILMINGTON, ST. MARY'S CHURCH DOME, 1933	" " "
390	WILMINGTON, H & H CORP., LIGHT BROWN STACK, 1933	Pricked direct
362	BELLEVUE FRONT RANGE LT., 1933	Identified as non-floating aid to navigation - pricked direct.
391	WILMINGTON, DELAWARE POWER & LIGHT CO., GAS PLANT, STACK, 1933	Rec. Pricked direct in compilation office.
405	WILMINGTON, NORTHEAST TRANSMISSION TOWER, 1933	Not. rec. Pricked direct in compilation office

NO.	NAME OF STATION	METHOD OF IDENTIFICATION
357	GREEN, 1933 (only R.M. recovered 1946)	Ref. Mk. No. 1 Pricked direct
371	WILMINGTON, ROCKFORD PARK MUNICIPAL WATER WORKS STONE WATER TANK, 1933	Rec. - Pricked direct in compilation office.
358	MARCUS HOOK REAR RANGE, 1933	Pricked direct
372	WILMINGTON, GREENHILL PRESBYTERIAN CHURCH SPIRE, 1933	Rec. Not identified.
374	WILMINGTON, RHOADS BELT CO., WATER TANK, 1933	Rec. - Pricked direct in compilation office.
377	WILMINGTON EIGHTH STREET BAPTIST CHURCH SPIRE, 1933	Rec. Not identified
378	RODNEY, 1933	Sub. Sta.
380	WILMINGTON, WILTEX CO., BRICK STACK, 1933	Rec. Pricked direct in compilation office.
379A	WILMINGTON, DELAWARE POWER & LIGHT CO., RED BRICK STACK, 1933	Rec. pricked direct in compilation office.
379B	WILMINGTON, DELAWARE POWER & LIGHT CO., WATER TANK, 1933	Rec. - not identified
379C	WILMINGTON, DELAWARE POWER & LIGHT CO., YELLOW BRICK STACK, 1933	Rec. - Pricked direct in compilation office
376	WILMINGTON, LITTLE SISTERS OF THE POOR, WHITE CUPOLA WITH CROSS, 1933	Rec. - not identified
382	WILMINGTON, SACRED HEART CHURCH SPIRE, 1933	Pricked direct
381	WILMINGTON, BAVARIAN LUXBURGER BREWING CO., TOWER, 1933	Rec. Not identified
395	WILMINGTON, PENNSYLVANIA R.R. SHOPS TALL BRICK STACK, 1933	Rec. - pricked direct in compilation office.
361	WILMINGTON, EDGE Moor IRON CO., SQUAT WATER TANK, 1933	Rec. - not identified <i>Lost</i> <i>Review Report</i> <i>- h.m.f.</i>
360	WILMINGTON, EDGE Moor IRON CO., STACK, 1933	Pricked direct
386A	WILMINGTON, NEWCASTLE LEATHER CO., STACK, 1933	Not. rec. - pricked direct. in compilation office.
386B	WILMINGTON, NEWCASTLE LEATHER CO., WATER TANK, 1933	Rec. Not identified.

ENTRANCE LT., 1933, identified as an aid to navigation by the field party did not hold to its geographic position. The radial plotted position of this station falls approximately 450 meters southeast of its geographic position. *Recovery Note, 1948 "Station destroyed". (See 7-8751)*

WILMINGTON, EDGEMOOR IRON CO., SQUAT WATER TANK, 1933, was recovered but not identified by the field party. An attempt was made to office identify this station by orienting the photograph under the map projection and noting its location. In examining the location stereoscopically, the tank could not be seen. It is believed the tank recovered by the field party is not in the same location as established in 1933. *See item 68 in Review Report*

The positions of all pass points and photograph centers established by this radial plot are within 0.5 millimeters of their correct geographic positions.

Respectfully submitted  
14 August 1947

Approved and forwarded  
12 September 1947

*Thos B Reed*  
Thos. B. Reed  
Officer in Charge,  
Baltimore Photogrammetric Office

*Joseph Steinberg*  
Photogrammetric Engineer

## RADIAL PLOT REPORT

PROJECT NO. PH-7(46)-C

SURVEY NO. T-8772

Survey No. T-8772 is one of twelve shoreline surveys in Project No. Ph-7(46)-C, the radial plot for which includes the area of the eastern half of Wilmington, Delaware, that portion of the Delaware River immediately adjacent thereto, and the area in the vicinity of Penns Grove, New Jersey.

The photographs used for this plot were U. S. Coast and Geodetic Survey single lens photographs taken with type "D" camera, focal length 12 inches, contact scale 1:16,000, and ratioed to 1:10,000 scale.

The field party recovered 47 of 53 horizontal control stations in the area of this survey, 15 of which were identified. However, the compilation office was able to identify 19 of the recovered stations and 5 which were not recovered. Attached to this report is a sketch showing the location of control stations and photographs, also a list of control identification.

The compilation office was furnished a polyconic projection, scale 1:10,000. The projection was ruled on acetate with the ruling machine and checked in the Washington Office.

Since there was an abundance of control stations in the area of this survey, it was decided to run the plot by orienting the photographs directly under the map projection. Passpoints established on Survey No. T-8773 to the south, and common to Survey No. T-8772, were first transferred thereto.

Photographs on the west side of the Delaware River were laid first resulting in good intersection being obtained from radials drawn on the map projections.

The photographs on the east side of the river were then laid, and it was found that because of a minimum amount of control in the southeastern area of the survey a strong plot would not result in this area. Therefore, celluloid templets were made for photographs Nos. 1909 to 1914, 1894 to 1898, and 2036. These were laid directly on the map projection and after some slight adjustments of the templets good intersections were obtained. The position of all photograph centers and pass points were pricked through the templets onto the map projection.

Intersections of rays and photograph centers obtained from laying the photographs directly under the map manuscript on the west side of the Delaware River were also pricked.

During the running of this plot, it was found that WILMINGTON, EDGEWOOD IRON CO., STACK, 1933, could not be held. Upon investigation, the pricking by the field party was found to be in error. The compilation office re-identified the station on the photographs and it was held in the plot. CHRISTIANA SOUTH



FIELD REPORT

MAP MANUSCRIPT SURVEY NO. T-8772

For data concerning the field inspection of this shoreline manuscript, refer to the original field report for Surveys Nos. T-8770, T-8771 and T-8772 (combined) and to the original field reports for Surveys Nos. T-8751 and T-8752, to be submitted at a later date.

*(See Descriptive Reports T-8770 and T-8751)*

## PREFACE

### Shoreline Manuscript T-8772

This is one of a series of 24 shoreline maps in project Ph-7(46) covering both sides of the Delaware River from Trenton, New Jersey and extending southward to lower Delaware Bay.

These shoreline sheets at a scale of 1:10,000 are to furnish material for revision of the nautical charts for this area, and, for a series of 18 topographic compilations at a scale of 1:20,000 which are to be published by the U. S. Geological Survey as standard topographic quadrangles at 1:24,000.



STATISTICS (III)

Land Area (Sq. Statute Miles):  $5\frac{1}{2}$  square statute miles.

Shoreline (More than 200 meters to opposite shore): 10 statute miles

Shoreline (Less than 200 meters to opposite shore):  $5\frac{1}{2}$  statute miles

Number of Recoverable Topographic Stations established:

Photo Hydro Points

Number of ~~Temporary Hydrographic Stations~~ located by radial 3  
plot:

6  
# (See T-8751)  
7 (and T-8754)

Leveling (to control contours) - 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:

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
46-D-1894 to 1897 incl.	3/10/46	1500	1:10,000	3.0' Above MLW
46-D-1910 to 1914 incl.	3/10/46	1520	1:10,000	3.5' " "
46-D-2019 to 2024 incl.	3/12/46	1317	1:10,000	1.3' " "
46-D-2031 to 2035 incl.	3/12/46	1338	1:10,000	1.0' " "
46-D-2035A	3/12/46	1342	1:10,000	1.0' " "
46-D-2036	3/12/46	1343	1:10,000	0.9' " "
46-D-2050 to 2055 incl.	3/12/46	1355	1:10,000	0.7' " "

Tide from (III): Actual Tide Observations at Philadelphia Corrected to Oldmans Point to Newcastle.

Mean Range: 5.2' Spring Range: 5.6'

Camera: (Kind or source) U. S. Coast and Geodetic Survey Single Lens camera. Wide angle, type "D" - Focal Length 12".

Field Inspection by: E. L. Jones

date: April through September 1946

Field Edit by: R. A. H.

date: April, 1949

Date of Mean High-Water Line Location (III): Same as date of Photographs supplemented with field inspection obtained during period April through September 1946.

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

date: 2/13/47

" " " checked by: H.W.T.

date: 2/14/47

Control plotted by: William J. Hughes

date: 2/10/47

Control checked by: Leroy A. Senasack

date: 2/10/47

Radial Plot by: Leroy A. Senasack

date: 8/12/47

M. K. Spencer  
Detailed by: O. O. Perkins

8-18-47 to 10-1-47  
date: 10-9-47 to 11-18-47  
and to

Reviewed in compilation office by: Raymond Glaser

Dec. 1947 and  
date: Jan. 1948

Elevations on Field Edit Sheet  
checked by:

date:

## DATA RECORD

T-8772

Quadrangle (II):

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

Field Office:  
New Castle, Delaware

Chief of Party: E. L. Jones

Compilation Office:  
Baltimore Photogrammetric Office

Chief of Party: Thos. B. Reed

Instructions dated (II III):  
25 March 1946, 19 July 1946Copy filed in <sup>Div. of Photogrammetry</sup> Descriptive  
Report No. T-~~VI~~ (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: *Nov 17, 1949* Applied to chart No.

Date:

Redrafting Completed:

Registered: *11-15-51*Published: *April 1951*

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

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

Reference Station (III): EDGENOOR 2, 1933

Lat.: 39° 45' 04.030" (124.3m) Long.: 75° 29' 42.152" (1003.5m) Adjusted  
~~Unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)