

TP-00244

TP-00244

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline Mapping
Job No. CM-7707 Map No. TP-00244
Classification No. III Edition No. 1

LOCALITY

State New Jersey - Pennsylvania
General Locality Delaware River
Locality Chester Island to Bramell Point

1975 TO 1976

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> SURVEY TP. <u>00244</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH-CM-7707</u> </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00244</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH-CM-7707</u>		
TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00244</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH-CM-7707</u>						
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Rockville, Maryland		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> LAST PRECEDING MAP EDITION </td> </tr> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
LAST PRECEDING MAP EDITION							
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE Cdr. James Collins							
I. INSTRUCTIONS DATED							
1. OFFICE		2. FIELD					
Aerotriangulation (CM-7508) 2/4/76 Office: CM-7707 3/18/77		Field (CM-7508) 3/4/75 Field (CM-7508) Supplement I 7/11/75					
II. DATUMS							
1. HORIZONTAL:		OTHER (Specify)					
<input checked="" type="checkbox"/> 1927 NORTH AMERICAN							
2. VERTICAL:		OTHER (Specify)					
<input type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		National Geodetic Vertical Datum of 1929					
3. MAP PROJECTION		4. GRID(S)					
Transverse Mercator Projection		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> STATE New Jersey </td> <td style="width: 50%;"> ZONE </td> </tr> </table>		STATE New Jersey	ZONE		
STATE New Jersey	ZONE						
5. SCALE 1:10,000		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> STATE </td> <td style="width: 50%;"> ZONE </td> </tr> </table>		STATE	ZONE		
STATE	ZONE						
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION METHOD: <u>Analytic</u>		BY <u>R. Kelly</u>	<u>10/15/76</u>				
LANDMARKS AND AIDS BY		BY <u>D. Norman</u>	<u>10/15/76</u>				
2. CONTROL AND BRIDGE POINTS METHOD: <u>Coradomat</u>		PLOTTED BY <u>H. Jones</u>	<u>7/5/77</u>				
CHECKED BY		BY <u>NA</u>					
3. STEREOSCOPIC INSTRUMENT COMPILATION		PLANIMETRY BY <u>L. Harrod</u>	<u>2/1/78</u>				
CHECKED BY		BY <u>G. Vanderhaven</u>	<u>2/1/78</u>				
INSTRUMENT: <u>Wild B-8</u>		CONTOURS BY <u>NA</u>					
SCALE: <u>1:10,000</u>		CHECKED BY <u>NA</u>					
4. MANUSCRIPT DELINEATION		PLANIMETRY BY <u>L. Harrod</u>	<u>4/25/78</u>				
CHECKED BY		BY <u>G. Vanderhaven</u>	<u>4/25/78</u>				
METHOD: <u>Smooth Drafting</u>		CONTOURS BY <u>NA</u>					
CHECKED BY		BY <u>NA</u>					
SCALE: <u>1:10,000</u>		HYDRO SUPPORT DATA BY <u>NA</u>					
CHECKED BY		BY <u>NA</u>					
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		BY <u>G. Fromm</u>	<u>5/18/78</u>				
6. APPLICATION OF FIELD EDIT DATA		BY <u>Field Edit Canceled</u>	<u>July 1978</u>				
CHECKED BY							
7. COMPILATION SECTION REVIEW		BY <u>G. Fromm</u>	<u>Aug. 1978</u>				
8. FINAL REVIEW		BY <u>J. B. Phillips</u>	<u>Aug. 1978</u>				
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY					
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY					
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY <u>R. J. C. g. for</u>	<u>NOV 1978</u>				

TP-00244

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(B) Camera Focal length = 152.74 mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75B(C) 4794 - 4800	8/28/75	942-951	1:20,000	+ 1.18 ft. MLW	
75B(C) 4824 - 4828	8/28/75	956-1006	1:20,000	+ .96 ft. MLW	

REMARKS

The above photography was ratioed to 1:10,000 scale.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high-water line is the photography listed under
Item I.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The source of the mean low-water line is the photography listed under
Item I.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Contemporary Survey	TP-00242	No Contemporary Survey	TP-00245

REMARKS

TP-00244

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY		
2. HORIZONTAL CONTROL	RECOVERED BY R.S. Tibbetts	1975-1976
	ESTABLISHED BY R.S. Tibbetts	March 1975
	PRE-MARKED OR IDENTIFIED BY NA	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R.S. Tibbetts	12/75-2/76
	LOCATED (Field Methods) BY R.S. Tibbetts	12/75-2/76
	IDENTIFIED BY R.S. Tibbetts	12/75-2/76
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	BY NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

All field operations were performed under Job CM-7508

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Refer to 76-40 listings bound with this Descriptive Report

PHOTO NUMBER

OBJECT NAME

PHOTO NUMBER

OBJECT NAME

5. GEOGRAPHIC NAMES:

☐ REPORT☒ NONE

6. BOUNDARY AND LIMITS:

☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

All field records are on file under Job CM-7508

TP-00244

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	5/18/78	Class III map		
Compilation office review	Aug. 1978	Field Edit canceled		
Final review before registration	Aug. 1978	Class III 1st Edition	9-8-78	10-12-78

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1			Aids
2			LDMKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

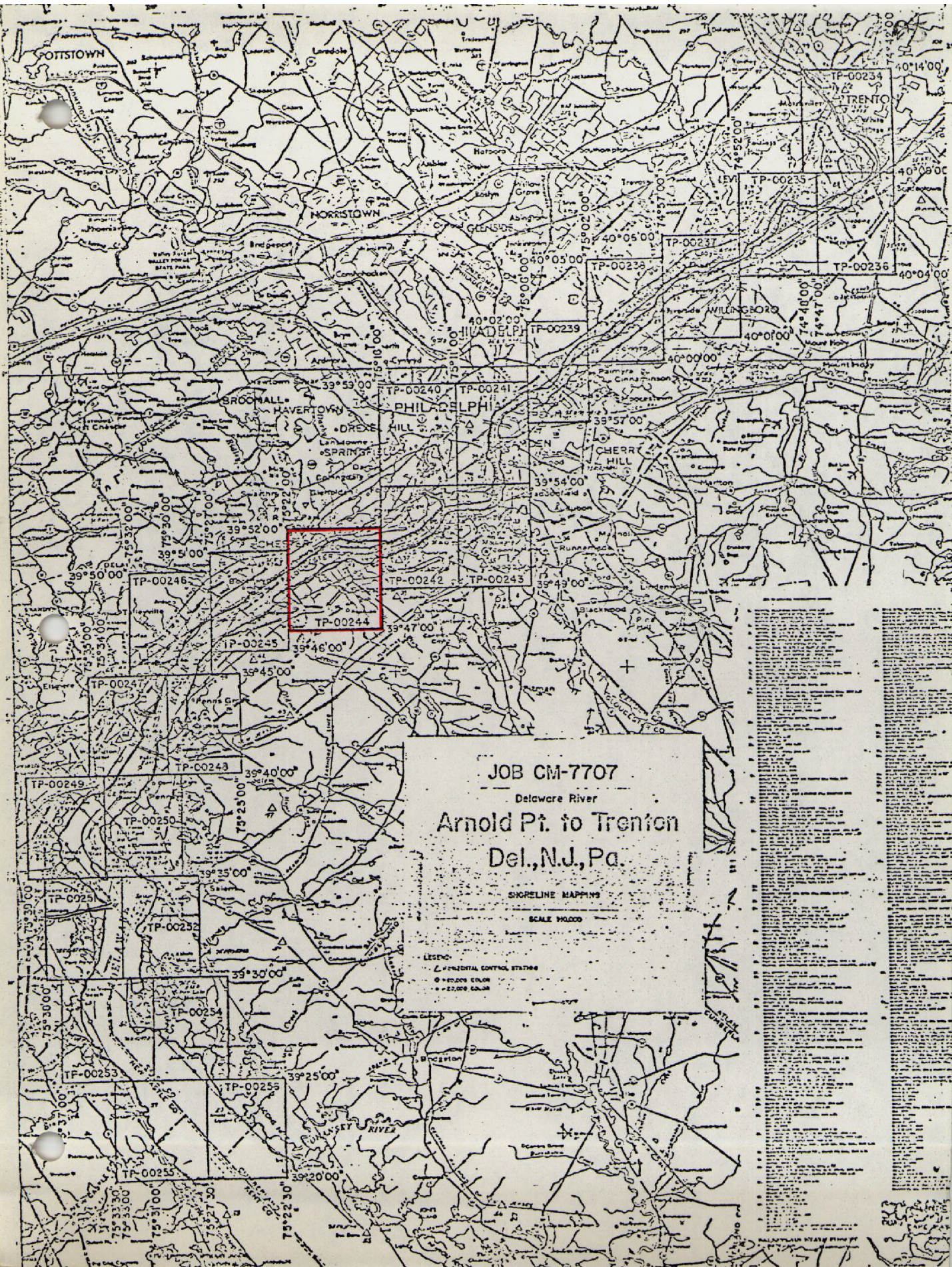
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



JOB CM-7707
Delaware River
Arnold Pt. to Trenton
Del., N.J., Pa.
SHORELINE MAPPING
SCALE 1:50,000
LEGEND:
△ PERMANENT CONTROL STATION
○ 10.000 ELEVATION
+ 27.000 ELEVATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Summary CM-7707
Maps TP-00240 thru TP-00245

This summary covers the second increment of this project. Field edit for these maps was canceled in July, 1978. They are final reviewed and registered as Class III.

This area was originally scheduled for landmark and aid location under job CM-7508. The job was completed in March 1977. All information obtained for that job was applied to the compiled maps in CM-7707. The forms 76-40 for landmarks and aids is included with each Descriptive Report. However, they are not furnished to charts with this project. Duplicate forms were furnished with job CM-7508 in April 1977.

The purpose of this project is to furnish a base for new hydrographic surveys and nautical chart updating.

The manuscripts were compiled using the Wild B-8 Stereoplotter with 1:20,000 scale natural color photography taken in 1975.

Final review was done in the Rockville, Maryland office in August 1978.

A stable base positive copy of each map with its Descriptive Report is registered in the NOS Archives.

FIELD INSPECTION

There was no field inspection performed under Job CM-7707. Field work prior to compilation was accomplished under Job CM-7508. This field work consisted of the recovery and identification of horizontal control and the locating or photoidentifying of landmarks, non-floating aids, and supplement objects.

03

Photogrammetric Plot Report
Delaware River
Arnold Point to Trenton, Delaware, New Jersey
Job CM-7805 7508
October 15, 1976

21. Area Covered

This report covers Delaware River from Arnold Point to Trenton, Delaware, New Jersey.

22. Method

Nineteen strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the New Jersey State Plane Coordinate System. Four strips of 1:60,000 photography were bridged to establish control for the bridging of 1:20,000 photography. Fifteen strips of 1:20,000 were bridged to determine positions of field identified landmarks, aids to navigation, and supplemental objects. This data was processed on 76-40 forms. Overlay sheets of these positions were plotted on the Coradomat using the same scale of published nautical charts, 12311 (C&GS 294), 12312 (C&GS 295), 12313 (C&GS 280) and inset, 12314 (C&GS 296), and 12277 (C&GS 570) eastern half only, west to longitude 38'.

Overlay sheets, 76-40 forms, and output cards of the 76-40 program were forwarded to the Special Projects Section for final preparation, which on ~~completion~~ ^{completion} will be routed to the Marine Chart Division.

23. Adequacy of Control

The horizontal control provided was adequate except for Navy, 1925 paneled station which did not hold in the adjustment. No apparent reason was determined and the station was dropped from the adjustment.

24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

RC-8 and RC-10 color positives were adequate as to coverage, overlay, and definition.

Submitted by:

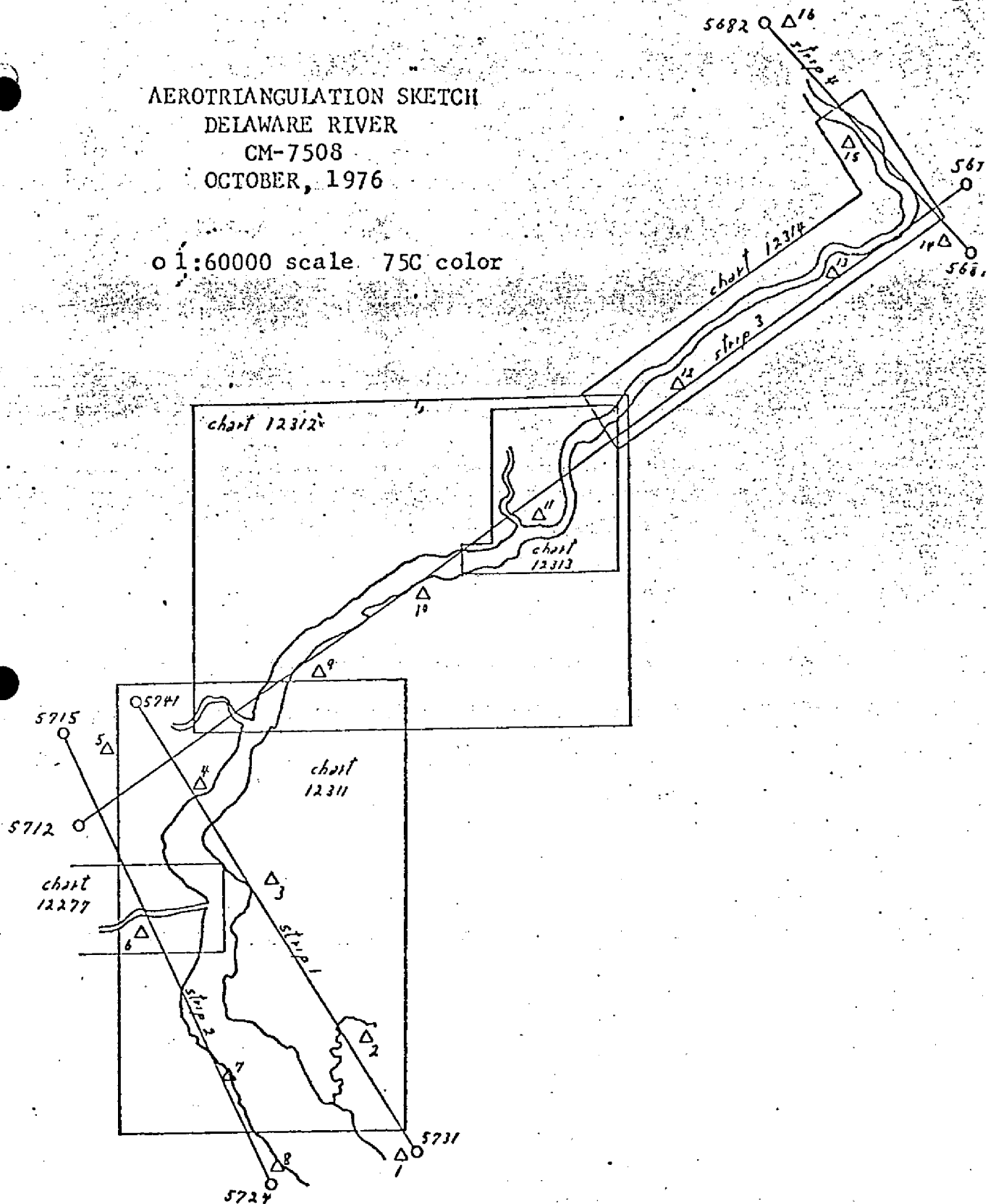
Robert B. Kelly
R. B. Kelly

Approved and Forwarded:

John D. Perrow Jr.
J. D. Perrow, Jr.

AEROTRIANGULATION SKETCH
DELAWARE RIVER
CM-7508
OCTOBER, 1976

o 1:60000 scale. 75C color



fit to control
(feet)

strip 1

1 WELLS, 1975	(0.5, 0.3)
2 WILLIS, 1933	(0.6, 0.5)
3 SALEM, 1933	(0.9, 1.5)
4 NEW CASTLE BELLANCA AIRPORT SQUAT W.T., 1933	(0.2, 4.5)
5 CHRIS 2, 1962	(0.8, 2.8)

strip 2

5 CHRIS 2, 1962	(0.1, 0.3)
6 CARROW, 1933	(0.0, 0.8)
7 DELAWARE (USE) 1932	(0.3, 1.0)
8 BOMBAY (USE) 1933	(0.2, 0.5)

strip 3

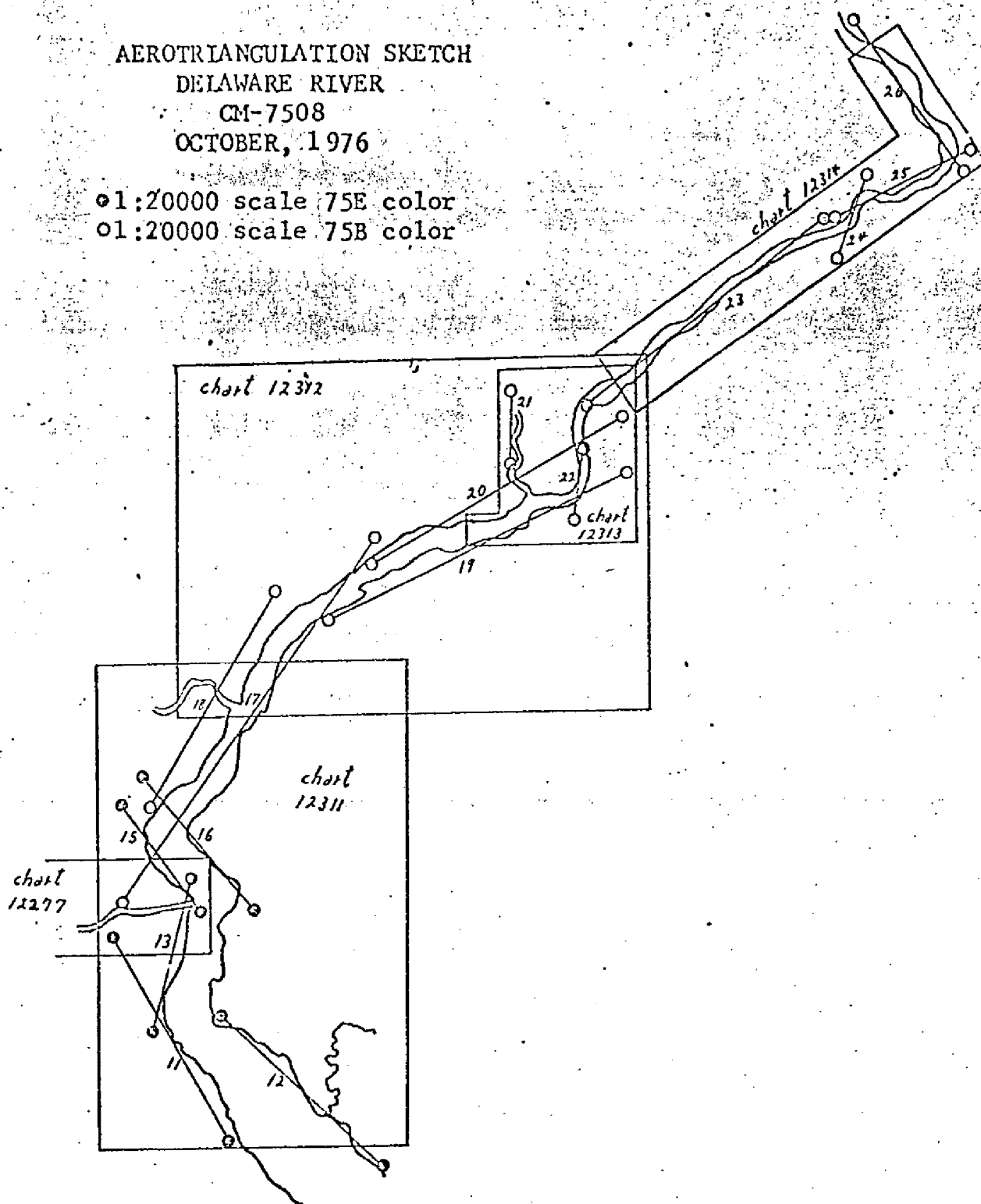
14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND RM, 1933	(0.2, 0.8)
12 PALMYRA RIVERTON-PALMYRA WATER CO. STANDPIPE, 1933	(1.7, 1.8)
11 PHILA NAVY YARD POWER PLANT WATER TANK, 1933	(1.5, 1.4)
10 GIBBSTOWN MUNICIPAL WATER TANK, 1933	(1.3, 0.9)
9 DEPOT, 1933	(2.2, 0.3)
5 CHRIS 2, 1962	(0.6, 0.2)

strip 4

16 GOAT HILL, 1876	(0.0, 0.0)
15 YARDLEY MUNICIPAL STANDPIPE, 1933	(0.0, 0.0)
14 FAIRVIEW, 1933	(0.0, 0.0)

AEROTRIANGULATION SKETCH
 DELAWARE RIVER
 CM-7508
 OCTOBER, 1976

● 1:20000 scale 75E color
 ○ 1:20000 scale 75B color



INDEX TO 1:20,000 PHOTOGRAPHS
DELAWARE RIVER
CM-7508

STRIP 11A 75E(C) 8679-8681
" 11B 75E(C) 8684-8686
" 11C 75E(C) 8689-8691

STRIP 12A 75E(C) 8713-8715
" 12B 75E(C) 8719-8721
" 12C 75E(C) 8722-8725

STRIP 13 75E(C) 8777-8784

STRIP 15 75E(C) 8735-8741

STRIP 16A 75E(C) 8746-8748
" 16B 75E(C) 8753-8755

STRIP 17A 75B(C) 4742-4745
" 17B 75B(C) 4746-4763

STRIP 18 75B(C) 4772-4784

STRIP 19A 75B(C) 4792-4795
" 19B 75B(C) 4797-4809

STRIP 20A 75B(C) 4812-4814
" 20B 75B(C) 4818-4830

STRIP 21 75B(C) 4843-4846

STRIP 22 75B(C) 4879-4886

STRIP 23 75B(C) 4894-4907

STRIP 24A 75B(C) 4942-4944
" 24B 75B(C) 4946-4948

STRIP 25 75B(C) 4911-4920

STRIP 26 75B(C) 4925-4937

13

Photogrammetric Plot Report
Delaware River
Arnold Pt. to Trenton, New Jersey
CM-7707
November 17, 1977

Project CM-7707 is a continuation of CM-7508. Briefly, in CM-7508, positions of landmarks, aids to navigation, and supplemental objects were determined by photogrammetric methods. In CM-7707, shoreline maps are to be compiled. The photography and control are the same for both projects. Additional photos were bridged for CM-7707 to give complete shoreline coverage.

21. Area Covered

The area covered is the Delaware River from Arnold Point, near the mouth of the Cohansey River to Trenton, New Jersey. This area is covered by 23 1:10,000 scale sheets. They are numbered TP-00234 thru TP-00256.

22. Method

Twenty strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the New Jersey State Plane Coordinate system. Four strips of 1:60,000 scale photography were bridged to control sixteen strips of 1:20,000 scale photography. (see attached aerotriangulation sketch for photos).

23. Adequacy of Control

The horizontal control was adequate. However, the panel for Navy, 1925 would not fit in the adjustment. No reason could be determined and the station was dropped from the adjustment.

24. Supplemental Data

USGS topographic quadrangles were used to provide vertical control requirements for strip adjustments.

25. Photography

The photography was adequate.

Submitted by,

Don O. Norman

Don O. Norman

Approved and forwarded:

John D. Perrow, Jr.

John D. Perrow, Jr., Chief,
Aerotriangulation Section

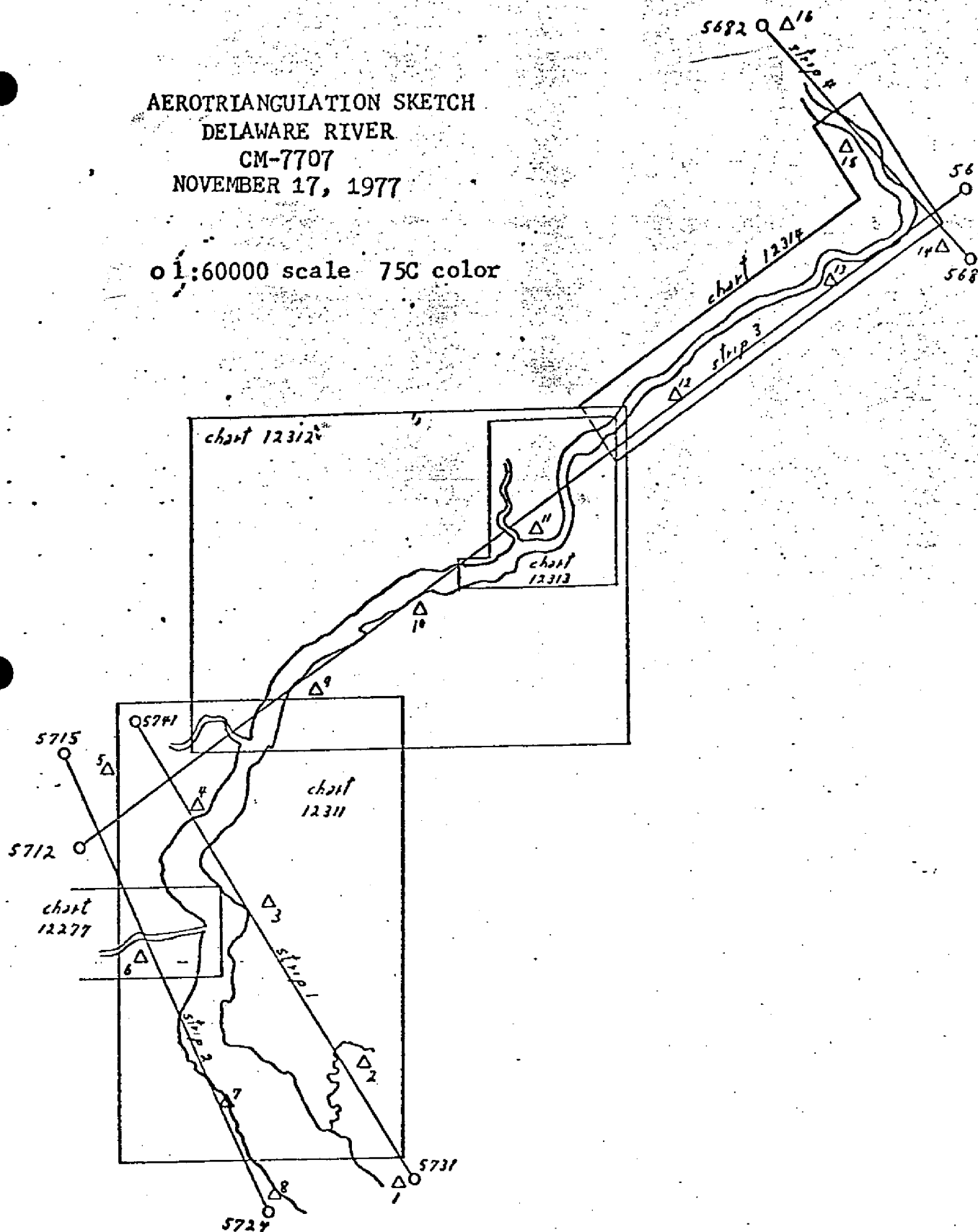
AEROTRIANGULATION SKETCH

DELAWARE RIVER

CM-7707

NOVEMBER 17, 1977

1:60000 scale 75C color



fit to control
(feet)

strip 1

1 WELLS, 1975	(0.5, 0.3)
2 WILLIS, 1933	(0.6, 0.5)
3 SALEM, 1933	(0.9, 1.5)
4 NEW CASTLE BELLANCA AIRPORT SQUAT W.T., 1933	(0.2, 4.5)
5 CHRIS 2, 1962	(0.8, 2.8)

strip 2

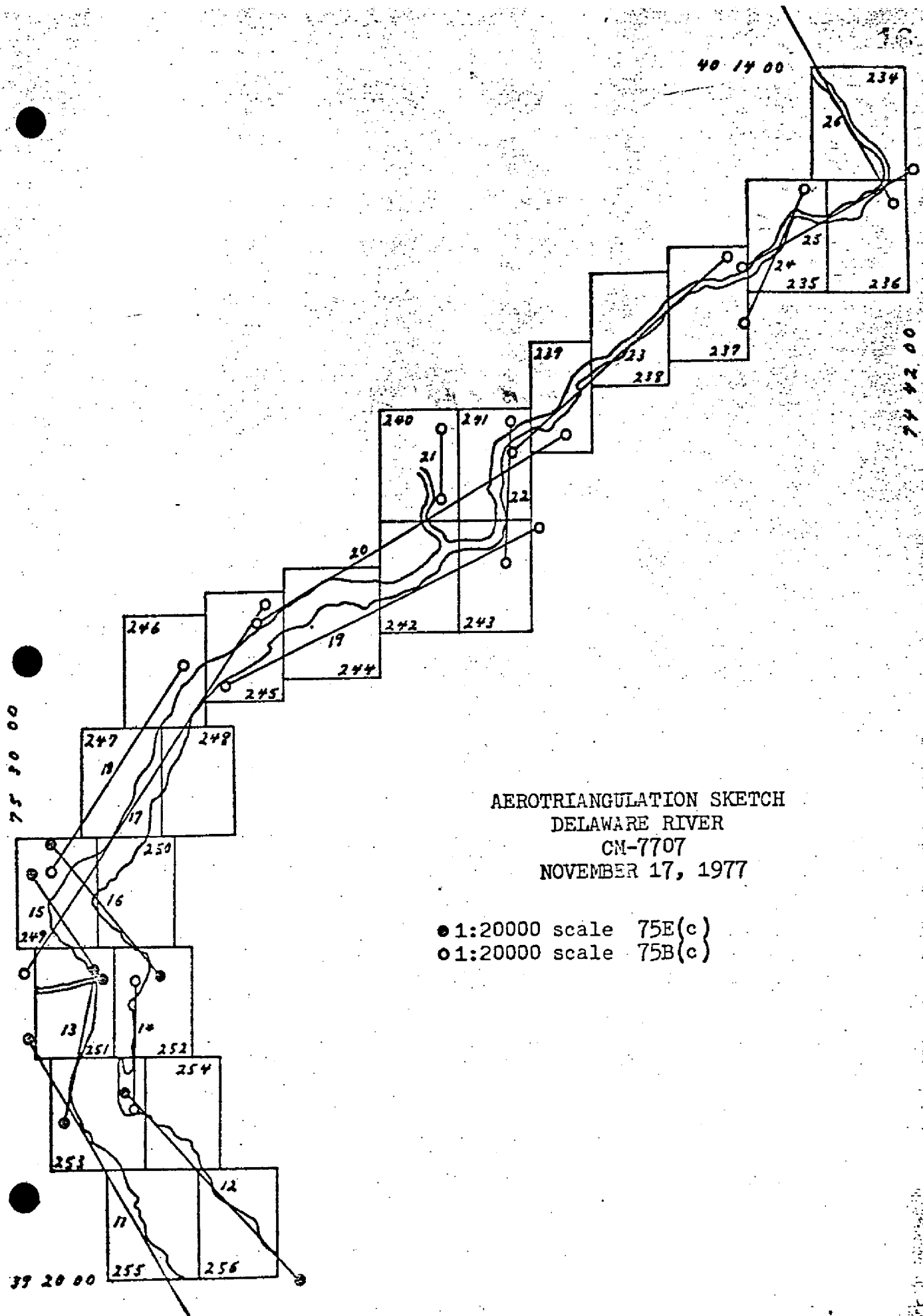
5 CHRIS 2, 1962	(0.1, 0.3)
6 CARROW, 1933	(0.0, 0.8)
7 DELAWARE (USE) 1932	(0.3, 1.0)
8 BOMBAY (USE) 1933	(0.2, 0.5)

strip 3

14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND RM1, 1933	(0.2, 0.8)
12 PALMYRA RIVERTON-PALMYRA WATER CO. STANDPIPE, 1933	(1.7, 1.8)
11 PHILA NAVY YARD POWER PLANT WATER TANK, 1933	(1.5, 1.4)
10 GIBBSTOWN MUNICIPAL WATER TANK, 1933	(1.3, 0.9)
9 DEPOT, 1933	(2.2, 0.3)
5 CHRIS 2, 1962	(0.6, 0.2)

strip 4

16 GOAT HILL, 1876	(0.0, 0.0)
15 YARDLEY MUNICIPAL STANDPIPE, 1933	(0.0, 0.0)
14 FAIRVIEW, 1933	(0.0, 0.0)



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INDEX TO 1:20,000 PHOTOGRAPHS
DELAWARE RIVER
CM-7707

STRIP 11	75E(C)	8674-8691
STRIP 12A	75E(C)	8713-8721
STRIP 12B	75E(C)	8722-8725
STRIP 13	75E(C)	8777-8784
STRIP 14	75B(C)	4730-4736
STRIP 15	75E(C)	8735-8741
STRIP 16A	75E(C)	8746-8751
STRIP 16B	75E(C)	8753-8755
STRIP 17A	75B(C)	4742-4745
STRIP 17B	75B(C)	4746-4763
STRIP 18	75B(C)	4772-4784
STRIP 19A	75B(C)	4792-4795
STRIP 19B	75B(C)	4797-4809
STRIP 20A	75B(C)	4812-4814
STRIP 20B	75B(C)	4818-4830
STRIP 21	75B(C)	4843-4846
STRIP 22	75B(C)	4879-4882 ⁶
STRIP 23	75B(C)	4894-4907
STRIP 24A	75B(C)	4942-4944
STRIP 24B	75B(C)	4946-4948
STRIP 25	75B(C)	4911-4920
STRIP 26	75B(C)	4925-4937

TP-00244
Compilation Report

Field and Aerotriangulation work used to complete this map was performed under Job CM-7508 (Del. River). Field operations consisted of aerial photography, premarking of control, and the location or photoidentifying of landmarks and aids. During bridging operations positions were determined for the field identified objects and those located by photogrammetric field methods. A duplicate copy of the Photogrammetric Plot Report for Job CM-7508 is bound with this Descriptive Report. Field records and reports are on file in the National Archives under CM-7508.

31. Delineation

This map was compiled on the Wild B-8 stereoplotter using 1:20,000 scale natural color photography taken in 1975.

32. Control

Refer to the Photogrammetric Plot Reports bound with this Descriptive Report.

The identification, density, and placement of horizontal and vertical control was adequate.

33. Supplemental Data - None

34. Contours and Drainage

All drainage is from office interpretation of the color photography.

35. Shoreline and Alongshore Details

The mean-high and mean-low water lines were compiled by office interpretation of the color photography.

Alongshore and foreshore features were delineated by office interpretation of the same photography.

There was no preliminary field inspection of the shoreline.

36. Offshore Detail

No unusual problems were encountered in compiling details offshore.

37. Landmarks and Aids

Positions of landmarks and nonfloating aids were determined under Job CM-7508. Refer to the Photogrammetric Plot Report (CM-7508) submitted with this Descriptive Report.

Landmarks were Field inspected to determine their values.

Refer to the 76-40 listings prepared for the date and method of location of each object.

38. Control for Future Surveys

No form 524 was submitted.

39. Junctions

Refer to from 76-36B, Item 5, of the Descriptive Report.

40. Horizontal and Vertical Accuracy

No comment.

41. thru 45. - Inapplicable

46. Comparison with Existing Maps

A comparison was made with the following USGS quadrangle(s):

Bridgeport, NJ - Pa., 1:24,000, 1967 Edition

No significant differences were noted.

47. Comparison with Nautical Charts

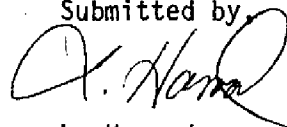
A comparison was made with the following charts:

12312 (formerly C&GS 295), 1:40,000 scale, 33rd Edition dated 7/9/77.

Items to be Applied to Nautical Charts Immediately - None

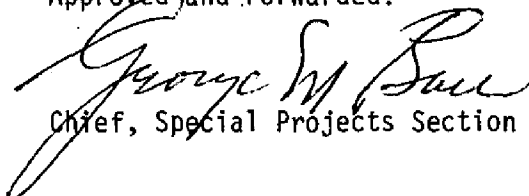
Items to be Carried Forward - None

Submitted by



L. Harrod

Approved and Forwarded:



Chief, Special Projects Section

Final Review Report
CM-7707
Shoreline Survey TP-00244

61. General Statement

This map is registered as Class III since field edit was canceled July 1978

All landmarks and aids were located in the field for job CM-7508 which covers this same area. The compilation for that project was canceled December 1975 and all landmarks and aid information has been applied to this project.

The forms 76-40 are not furnished to charts with this job. Duplicate forms were furnished April 1977 with job CM-7508.

62. - 64. Inapplicable

65. Comparison with Nautical Charts

The map was compared with the following:

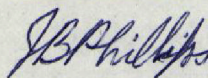
Chart 12312 scale 1:40,000, 33rd Ed., pub. July 1977

One landmark is shown on the chart that was plotted from information obtained from job CM-7508. The position was furnished the Coast Guard for re-positioning buoys. It was not inspected from seaward to determine value as a landmark, and it is not shown on this map or listed on the 76-40 form.

66. Adequacy of Results and Future Surveys

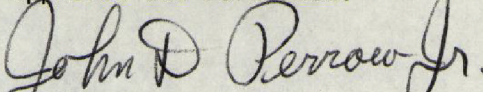
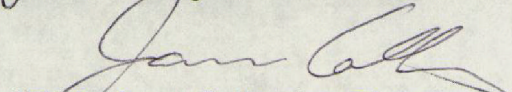
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,



J. B. Phillips

Approved and Forwarded:


Chief, Photogrammetric Branch
Chief, Coastal Mapping Division

May 22, 1978

GEOGRAPHIC NAMES

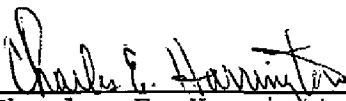
FINAL NAME SHEET

CM-7707 (Delaware River, Del., N.J., Pa.)

TP-00244

Aunt Debs Ditch	Darby Creek
Bramell Point	Delaware River
Bridgeport	<i>Essington</i>
Chester	Little Tinicum Island
Chester Creek	Monds Island
Chester Island	Raccoon Creek
Clonmell Creek	Raccoon Island
Conrail (RR)	Repaupo Creek
Crab Point	Ridley Creek
Crum Creek	Sand Ditch
	Thompson Point
	White Sluice Race

Approved by:



Charles E. Harrington, C3x8
Chief Geographer

76-40 LISTING				PHOTOGRAMMETRIC BRANCH COASTAL MAPPING DIVISION				NATIONAL OCEAN SURVEY DEPARTMENT OF COMMERCE				NOAA USA				TERMINAL VERSION 7/20/76			
* SVY TP-00244 * * JOB CM-7707 * * PRJ DEL. RIVER * * DTM NA 1927 *				* NONFLOATING AIDS FOR CHARTS TO BE REVISED				* RPT UNIT CMD ROCKVILLE, MD. * * STATE PA. N.J. * * LOCALITY DELAWARE RIVER * * DATE 08/03/77 *				* PAGE 1 OF 3 * * ORIGINATING ACTIVITY * * COMPILATION *							
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *																			
* CHARTING * * NAME * PUT TRIANGULATION NAMES IN () *				* DESCRIPTION * * RECORD REASON FOR DELETION * * PUT TRIANGULATION NAMES IN () *				* POSITION * * LATITUDE DM * * LONGITUDE DP *				* CODES * * C-C * * SEQ * * OFFICE * * FIELD * * CHARTS * * AFFECTED *							
* MAIN CHANNEL *																			
* FRONT * * LIGHT *				* CHESTER RANGE *				* 39 51 13.12 404.6 NOT * * 75 19 55.99 1331.0 DGT2D *				* P-5 * * 12/10/75 * * 75BC4825 *							
* REAR * * LIGHT *				* CHESTER RANGE *				* 00 00 00.00 0.0 NOT * * 00 00 00.00 0.0 DGT2D *				* /NO/T * * POSITION * * 12312 *							
* LIGHT *				* CHESTER INTAKE LIGHT *				* 39 50 31.63 975.5 NOT * * 75 21 24.41 580.4 DGT2D *				* P-5 * * 12/09/75 * * 75BC4827 *							
* HORN *				* RIDLEY CREEK FOG SIGNAL PRIVATE AID *				* 39 50 55.18 1701.8 NOT * * 75 20 37.15 883.2 DGT2D *				* P-5-2 * * 12/10/75 * * 75BC4827 *							
* FRONT * * LIGHT *				* EDDYSTONE GENERATING STA RGE *				* 39 51 23.24 716.8 NOT * * 75 19 23.92 568.6 DGT2D *				* P-5 * * 12/10/75 * * 75BC4826 *							
* REAR * * LIGHT *				* EDDYSTONE GENERATING STA RGE *				* 39 51 28.32 873.4 NOT * * 75 19 18.60 442.1 DGT2D *				* P-5 * * 12/10/75 * * 75BC4825 *							
* LIGHT *				* THOMPSON PT INTAKE LT *				* 39 50 41.40 1276.8 NOT * * 75 18 21.53 511.9 DGT2D *				* P-5 * * 11/28/75 * * 75BC4798 *							
* FRONT * * LIGHT *				* BILLINGSPOINT RANGE *				* 39 50 29.45 908.3 NOT * * 75 17 16.15 384.0 DGT2D *				* P-5 * * 11/28/75 * * 75BC4798 *							
* REAR * * LIGHT *				* BILLINGSPOINT RANGE *				* 39 50 24.67 760.9 NOT * * 75 17 33.51 796.7 DGT2D *				* P-5 * * 11/28/75 * * 75BC4798 *							
* TYPE OF ACTION * * NAMES OF RESPONSIBLE PERSONNEL * * ORIGINATOR *																			
* POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES *																			
* R. TIBBETTS R. WELLS D. NORMAN G. FROMM NOT DIGITIZED L. HARROD FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER DATA PROCESSER *																			

LISTING
COASTAL MAPPING DIVISION

SVY	TP-00244	*		RPT UNIT	CMD ROCKVILLE, MD.	*	PAGE	2 OF	3
JOB	CM-7707	*		STATE	PA. N.J	*			
PRJ	DEL. RIVER*		LANDMARKS FOR CHARTS TO BE CHARTED	LOCALITY	DELAWARE RIVER		*ORIGINATING ACTIVITY		
DTM	NA 1927	*		DATE	08/03/77	*	* COMPILATION		

THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

* CHARTING*	DESCRIPTION	* POSITION	* CODES*	METHOD AND DATE	* CHARTS
NAME	RECORD REASON FOR DELETION	* LATITUDE	C-C *	OF LOCATION	* CHARTS
NAME	PUT TRIANGULATION NAMES IN ()	* LONGITUDE	SEQ *	OFFICE * FIELD	* AFFECTED

[illegible]

TYPE OF ACTION	* * *	NAMES OF RESPONSIBLE PERSONNEL	* * *	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	* * *	PHOTO FIELD PARTY 62	* * *	PHOTO FIELD PARTY
POSITIONS DETERMINED	* * *	R. IIBBETTS	* * *	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	* * *	D. NORMAN	* * *	OFFICE COMPILER
FIELD AND OFFICE	* * *	NOT DIGITIZED	* * *	DIGITIZER
ACTIVITIES	* * *	L. HARROD	* * *	DATA PROCESSER

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

TERMINAL
VERSION
9/20/76

* SVY TP-00244 * LANDMARKS FOR CHARTS * RPT UNIT CMD ROCKVILLE, MD. * PAGE 3 OF 3 *
* JOB CM-7707 * TO BE REVISED * STATE PA. N.J *
* PRJ DEL. RIVER * * LOCALITY DELAWARE RIVER * ORIGINATING ACTIVITY *
* DTM NA 1927 * * DATE 08/03/77 * COMPILE *
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* DESCRIPTION * POSITION * METHOD AND DATE *
* CHARTING* RECORD REASON FOR DELETION * LATITUDE DM C-C * OF LOCATION * CHARTS *
* NAME * PUT TRIANGULATION NAMES IN () * LONGITUDE DP SEQ * OFFICE * FIELD * AFFECTED *

* TANK * (BRIDGEPORT MUNICIPAL WATER * 39 47 54.90 1693.2 NOT * *TRIANG REC* 12312 *
* TANK 1933) * 75 21 07.71 183.4 DGTZD* * 11/28/75 *
* TANK * (GIBBSTOWN MUNICIPAL WATER * 39 49 38.22 1178.8 NOT * *TRIANG REC* 12312 *
* TANK 1933) * 75 16 31.51 749.3 DGTZD* * 11/28/75 *
* STACK * (ESSINGTON WESTINGHOUSE * 39 51 53.79 1659.0 NOT * *TRIANG REC* 12312 *
* ELECTRIC CO STACK 1933) * 75 17 11.32 269.1 DGTZD* * 12/10/75 *
* TANK * (ESSINGTON WESTINGHOUSE * 39 51 47.28 1458.2 NOT * *TRIANG REC* 12312 *
* ELECTRIC CO WATER TANK 1961) * 75 17 34.54 821.0 DGTZD* * 12/10/75 *
* TANK * SCOTT PAPER CO TALLEST TANK * 39 50 40.89 1261.1 NOT * P-5 * 12312 *
* * * 75 21 19.39 461.0 DGTZD* * 1/29/76 *
* * * * * 75BC4827 * * *
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* TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * ORIGINATOR *
* OBJECTS INSPECTED FROM SEAWARD * PHOTO FIELD PARTY 62 * PHOTO FIELD PARTY
* POSITIONS DETERMINED * R. TIBBETTS R. WELLS * FIELD REPRESENTATIVE
* AND/OR VERIFIED BY * D. NORMAN G. FROMM * OFFICE COMPILER
* FIELD AND OFFICE * NOT DIGITIZED * DIGITIZER
* ACTIVITIES * L. HARROD * DATA PROCESSER

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review

[illegible]