

TP-00237

TP-00237

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-00237
Classification No. III Edition No. 1

LOCALITY

State New Jersey - Pennsylvania
General Locality Delaware River
Locality Beverly - Croydon

19 75 TO 19 76

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Rockville) OFFICER-IN-CHARGE Commander James Collins		SURVEY TP. <u>00237</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH-CM-7707</u> LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Instructions - Aerotriangulation (CM-7508) 2/4/76 Instructions - Office (CM-7707) 3/18/77		Instructions - Field (CM-7508) 3/4/75 Instructions - Field (CM-7508) Supplement I - 7/11/75	
II. DATUMS			
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: ☐ MEAN HIGH-WATER ☒ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify) National Geodetic Vertical Datum of 1929	
3. MAP PROJECTION Traverse Mercator Projection		4. GRID(S) STATE <u>New Jersey</u> ZONE <u></u> STATE <u></u> ZONE <u></u>	
5. SCALE <u>1:10,000</u>			
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>5-20-77</u>
CHECKED BY <u>N.A.</u>			
3. STEREOSCOPIC INSTRUMENT COMPILATION <u>Wild B-8</u>		PLANIMETRY BY <u>G. Vanderhaven</u>	<u>5-23-77</u>
INSTRUMENT: <u>Wild B-8</u>		CHECKED BY <u>L. Harrod</u>	<u>5-23-77</u>
SCALE: <u>1:10,000</u>		CONTOURS BY <u>N.A.</u>	
CHECKED BY <u>N.A.</u>			
4. MANUSCRIPT DELINEATION		PLANIMETRY BY <u>G. Vanderhaven</u>	<u>6-1-77</u>
METHOD: <u>Smooth Drafting</u>		CHECKED BY <u>L. Harrod</u>	<u>7-26-77</u>
SCALE: <u>1:10,000</u>		CONTOURS BY <u>N.A.</u>	
HYDRO SUPPORT DATA BY <u>N.A.</u>			
CHECKED BY <u>N.A.</u>			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		BY <u>G. Fromm</u>	<u>8/77</u>
6. APPLICATION OF FIELD EDIT DATA		BY <u>Field Edit canceled</u>	<u>4/78</u>
CHECKED BY			
7. COMPILATION SECTION REVIEW		BY <u>G. Fromm</u>	<u>5/78</u>
8. FINAL REVIEW		BY <u>J.B. Phillips</u>	<u>7/78</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY	
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY <u>R.T. Carter</u>	<u>11/78</u>

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES

TP-00237

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-10(B) Camera
Focal length = 152.74 mmTYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

- ☒ PREDICTED TIDES
☐ REFERENCE STATION RECORDS
☐ TIDE CONTROLLED PHOTOGRAPHY

- (C) COLOR
(P) PANCHROMATIC
(I) INFRARED

ZONE

Eastern

☒ STANDARD

MERIDIAN

75th

☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
75B(C) 4947-4948	8-28-75	1302-1308	1:20,000	+57 ft. MLW
75B(C) 4903-4907	8-28-75	1223-1231	1:20,000	+71 f.t MLW

REMARKS

All 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. See paragraph 35 of the Compilation Report bound with this Descriptive Report.

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. Refer to paragraph 35 of the Compilation Report bound with this Descriptive Report.

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	TP-00235	No contemporary	TP-00238
REMARKS survey		survey	

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00237

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	1975-1976
2. HORIZONTAL CONTROL	RECOVERED BY R.S. Tibbetts	3/75
	ESTABLISHED BY L.H. Davis	3/75
	PRE-MARKED OR IDENTIFIED BY L.H. Davis	3/75
3. VERTICAL CONTROL	RECOVERED BY N.A.	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R.S. Tibbetts	1/76
	LOCATED (Field Methods) BY R.S. Tibbetts	1/76
	IDENTIFIED BY R.S. Tibbetts	1/76
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY BY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N.A.
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
All field operations were performed under CM-7508.			

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Refer to 76-40 listing bound with this Descriptive Report.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

N.A.

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

All field records are on file under Project CM-7508.

RECORD OF SURVEY USE

TP-00237

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation completed pending field edit	8/12/77	Class III Map		4-18-78
Compilation office review	May 1978	Field Edit postponed <i>cancel</i>		
Final review prior to registration	July 1978	Class III 1st Edition	8-14-78	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3			Landmarks
3			Aids
1			To be deleted

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

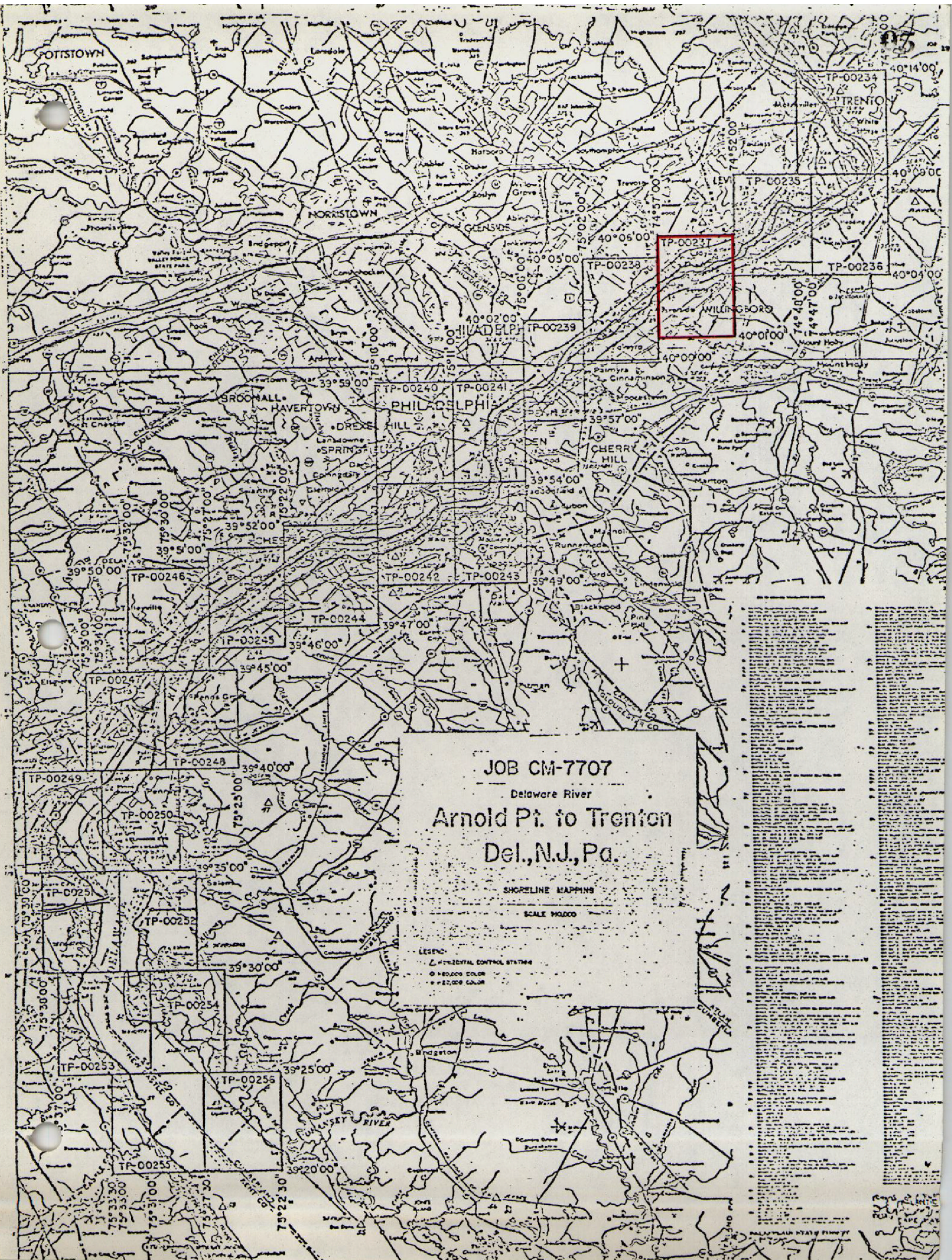
III. FEDERAL RECORDS CENTER DATA

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 - _____	☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



Summary CM-7707
Maps TP-00234 thru TP-00239

This summary covers the initial portion of this job. Field edit for these maps was canceled April 24, 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 part of 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 July 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.

08

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

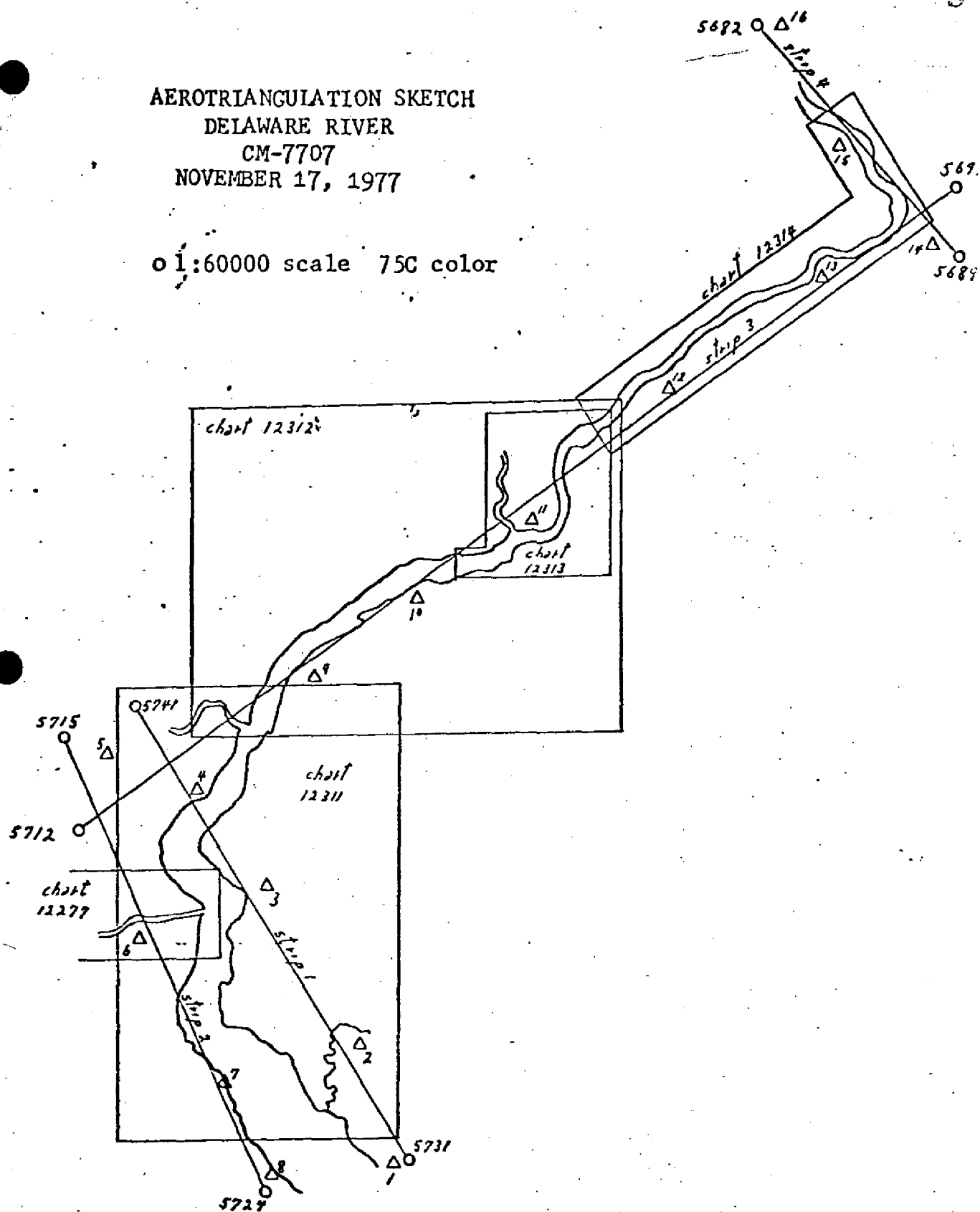
Approved and forwarded:

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)

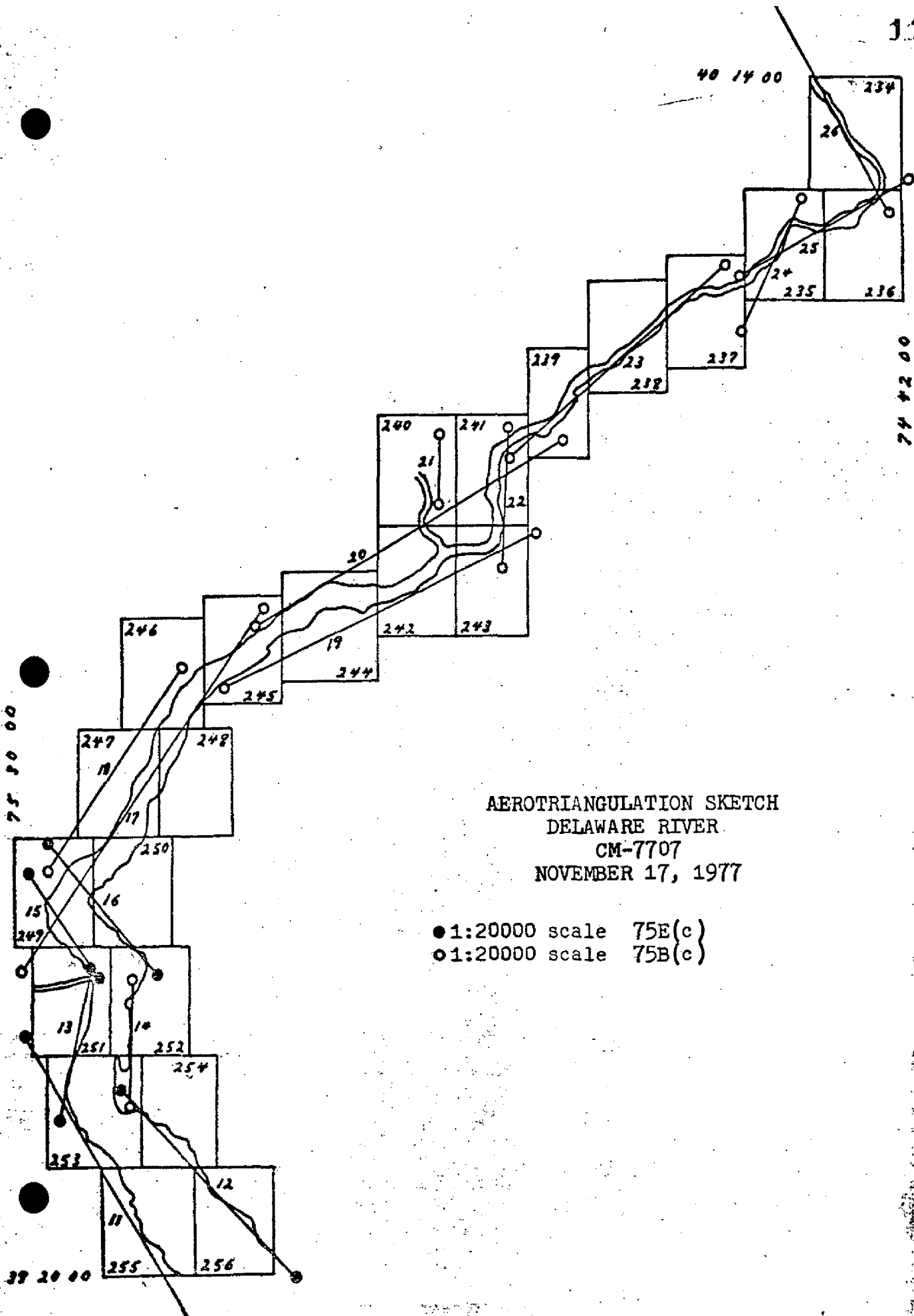
strip 3

14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND 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 COAT HILL, 1876	(0.0, 0.0)
15 YARDLEY MUNICIPAL STANDPIPE, 1933	(0.0, 0.0)
14 FAIRVIEW, 1933	(0.0, 0.0)

40 14 00



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	75E(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	75E(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)	4879-48826
STRIP 23	75B(C)	4894-4907
STRIP 24A	75E(C)	4942-4944
STRIP 24B	75B(C)	4946-4948
STRIP 25	75B(C)	4911-4920
STRIP 26	75B(C)	4925-4937

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:

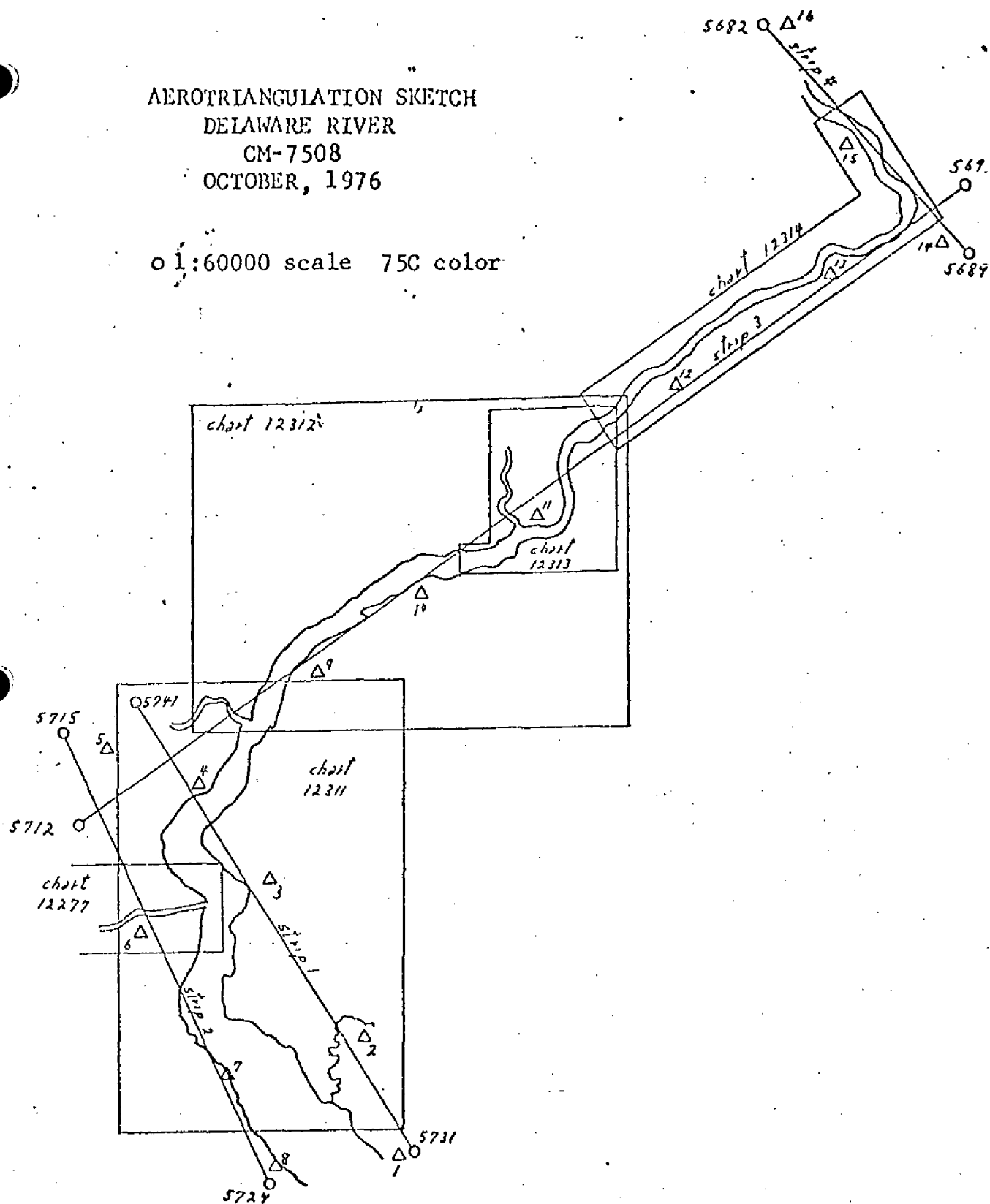
Robert B. Kelly
R. B. Kelly

Approved and Forwarded:

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

AEROTRIANGULATION SKETCH
 DELAWARE RIVER
 CM-7508
 OCTOBER, 1976

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

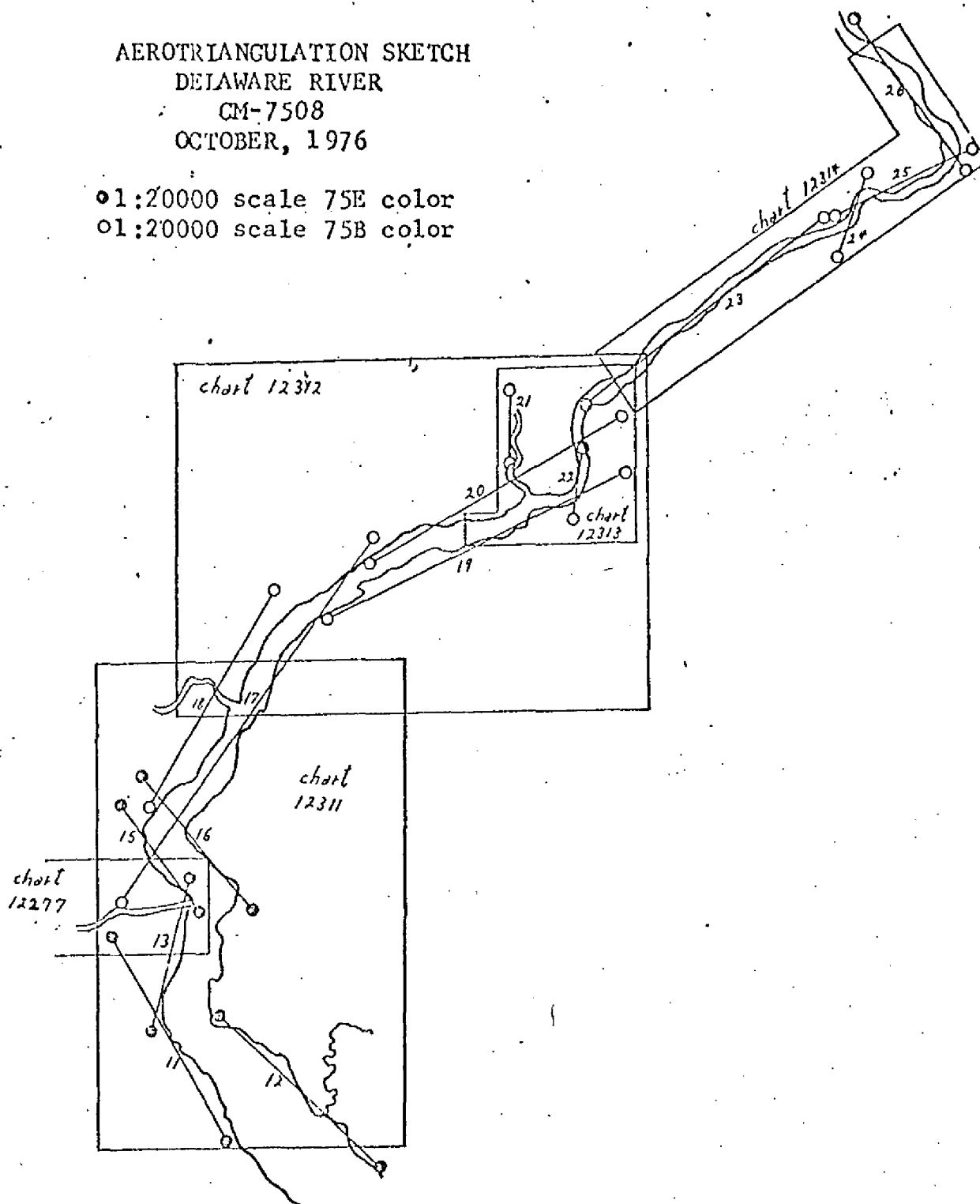
14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND RM1, 1933	(0.2, 0.8)
12 PALMYRA RIVERTON-PALMYRA WATER CO. STANDPIPE, 1933	(1.7, 1.8)
11 PHILA NAVY YARD POWER PLANT WATER TANK, 1933	(1.5, 1.4)
10 GIBBSTOWN MUNICIPAL WATER TANK, 1933	(1.3, 0.9)
9 DEPOT, 1933	(2.2, 0.3)
5 CHRIS 2, 1962	(0.6, 0.2)

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)

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) 4879-4882

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

TP-00237
Compilation Report

Field and Aerotriangulation work used to complete this map was performed under Job CM-7508 (Delaware River). Field operations consisted of aerial photography, premarking of control, and the location or photo-identifying 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. Furnished bridged photography did not give complete stereo coverage between longitude 74°53'30" and 74°54'00" on the southern shoreline of the Delaware River. Graphic compilation was used to delineate this portion of the map.

32. Control

Refer to the Photogrammetric Plot Report 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. Graphic compilation from a black-and-white ratioed print of the color photo 75B(c)4906 was used to depict the mean-high and mean-low water lines in the area mentioned in paragraph 31 of this report.

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 Project 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 form 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):

Beverly, Pa.-N.J., 1:24,000 scale, 1966 edition, photorevised 1973
Bristol, N.J.-Pa., 1:24,000 scale, 1955 edition, photorevised 1970

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

12314, formerly C&GS 296, 1:20,000 scale, 21st edition dated 5/31/75.

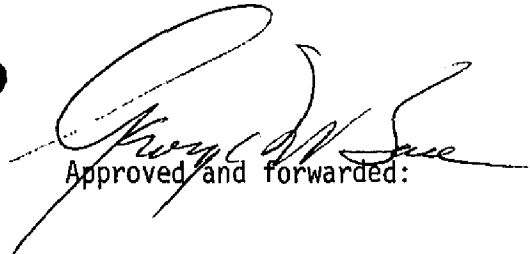
Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,



G. Vanderhaven



Approved and forwarded:

Final Review Report
CM-7707
Shoreline Survey TP-00237

61. General Statement

This map is registered as Class III since field edit was canceled April 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 landmark 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

This map was compared with the following:

Chart 12314, pub. 7/30/77, 22nd Edition, 1:20,000 scale

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 is not shown on this map or listed on the 76-40 form.

66. Adequacy of Results and Future Surveys

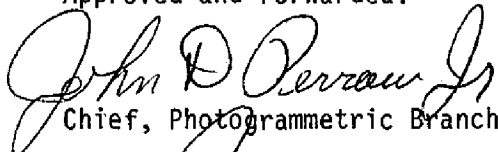
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,

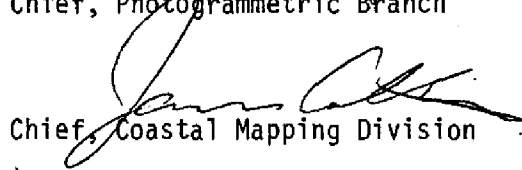


J. B. Phillips

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

September 13, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7508 (Delaware River)

TP-00237

Beverly

Burlington

College Point

Conrail (RR)

Croydon

Croydon Acres

Delaware River

Echo Beach

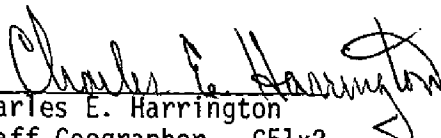
Edgewater Park

Logan Point

Maple Beach (locality)

Neshaminy Creek

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	R. FIRBETTS R. WELLS	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	D. NORMAN G. FROMM	OFFICE COMPILER
FIELD AND OFFICE	NOT DIGITIZED	DIGITIZER
ACTIVITIES	G. FROMM	DATA PROCESSER

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
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	G. FROMM	DATA PROCESSER

* TYPE OF ACTION	* NAMES OF RESPONSIBLE PERSONNEL	* ORIGINATOR
* POSITIONS DETERMINED	* R. HIBBETS R. WELLS	* FIELD REPRESENTATIVE
* AND/OR VERIFIED BY	* D. NORMAN G. FROMM	* OFFICE COMPILER
* FIELD AND OFFICE	* NOT DIGITIZED	* DIGITIZER
* ACTIVITIES	* G. FROMM	* DATA PROCESSER

76-40
LISTINGPHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISIONNATIONAL OCEAN SURVEY
DEPARTMENT OF COMMERCE USATERMINAL
VERSION
20/76

* SVY TP-00237 * RPT UNIT CMD ROCKVILLE, MD. * PAGE 3 OF 7 *
* JOB CM-7707 * STATE N.J. PA. *
* PRJ DEL. RIVER * LOCALITY DELAWARE RIVER * ORIGINATING ACTIVITY *
* DTM NA 1927 * DATE 05/04/77 * COMPILATION *
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

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

* REAR * BEVERLY LOWER RANGE * 40 04 14.67 452.5 NOT * P-5 * 12314 *
* LIGHT * 74 56 11.15 264.2 DGTZD * 1/12/76 *
* * * * 75BC4904 *
* FRONT * BEVERLY UPPER RANGE * 40 04 12.69 391.4 NOT * P-5 * 12314 *
* LIGHT * 74 54 09.94 235.5 DGTZD * 1/13/76 *
* * * * 75BC4905 *
* REAR * BEVERLY UPPER RANGE * 40 04 12.58 388.0 NOT * P-5 * 12314 *
* LIGHT * 74 54 03.87 91.7 DGTZD * 1/13/76 *
* * * * 75BC4905 *
* FRONT * EDGEWATER UPPER RANGE * 40 04 53.76 1658.1 NOT * P-5 * 12314 *
* LIGHT * 74 52 27.79 658.4 DGTZD * 1/14/76 *
* * * * 75BC4911 *
* REAR * EDGEWATER UPPER RANGE * 40 04 57.81 1783.0 NOT * P-5 * 12314 *
* LIGHT * 74 52 13.76 326.0 DGTZD * 1/14/76 *
* * * * 75BC4911 *
* FRONT * EDGEWATER LOWER RANGE * 40 04 07.72 238.1 NOT * P-5 * 12314 *
* LIGHT * 74 55 08.81 208.8 DGTZD * 1/12/76 *
* * * * 75BC4905 *
* REAR * EDGEWATER LOWER RANGE * 40 04 05.38 165.9 NOT * P-5 * 12314 *
* LIGHT * 74 55 17.34 410.9 DGTZD * 1/12/76 *
* * * * 75BC4905 *
* FRONT * DEVLIN LOWER RANGE * 40 04 32.97 1016.9 NOT * P-5 * 12314 *
* LIGHT * 74 54 04.26 100.9 DGTZD * 1/14/76 *
* * * * 75BC4907 *
* REAR * DEVLIN LOWER RANGE * 40 04 31.36 967.2 NOT * P-5 * 12314 *
* LIGHT * 74 54 14.34 339.8 DGTZD * 1/14/76 *
* * * * 75BC4907 *
* * * * * *
* * * * * *

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TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	R. FIBBETTS R. WELLS	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	D. NORMAN G. FROMM	OFFICE COMPILER
FIELD AND OFFICE	NOT DIGITIZED	DIGITIZER
ACTIVITIES	G. FROMM	DATA PROCESSER

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
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	G. FROMM	DATA PROCESSER

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COASTAL MAPPING DIVISION

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20/76

SVY

TP-00237

*

JOB

CM-7707

*

PRJ

DEL. RIVER

*

DTM

NA 1927

*

LANDMARKS FOR CHARTS

TO BE CHARTED

RPT UNIT

CMD ROCKVILLE, MD.

*

STATE

N.J.

PA.

*

LOCALITY

DELAWARE RIVER

*

DATE

05/04/77

*

PAGE

5 OF 7

*

ORIGINATING ACTIVITY

COMPILATION

*

THE FOLLOWING OBJECTS

HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

DESCRIPTION

POSITION

CODES

METHOD AND DATE

RECORD REASON FOR DELETION

LATITUDE

DM

C-C

OF LOCATION

CHARTS

PUT TRIANGULATION NAMES IN ()

LONGITUDE

DP

SEQ

OFFICE

FIELD

AFFECTED

TANK

E TANK

*

40 03 47.05

1451.2

NOT

*

P-5-V

12314

*

74 54 27.70

656.5

OGTZO

*

1/12/76

*

75BC4905

*

PHOTO FIELD PARTY 62

R. TIBBETTS

R. WELLS

D. NORMAN

G. FROMM

NOT DIGITIZED

G. FROMM

PHOTO FIELD PARTY

FIELD REPRESENTATIVE

OFFICE COMPILER

DIGITIZER

DATA PROCESSER

76-40
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COASTAL MAPPING DIVISIONNATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USATERMINAL
VERSION
1/20/76

* SVY	TP-00237	*	LANDMARKS FOR CHARTS TO BE REVISED	* RPT UNIT	CMD ROCKVILLE, MD.	*	STATE	N.J.	PA.	*	PAGE	6	OF	7	*
* JOB	CM-7707	*		* LOCALITY	DELAWARE RIVER	*	DATE	05/04/77		*	ORIGINATING	ACTIVITY			*
* PRJ	DEL. RIVER	*								*	COMPILATION				*
* DTM	NA 1927	*								*					*
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *															
* CHARTING	RECORD REASON FOR DELETION	*	DESCRIPTION	*	POSITION		CODES		METHOD AND DATE	*					*
* NAME	PUT TRIANGULATION NAMES IN ()	*	LATITUDE	DM	C-C		OF LOCATION			*	CHARTS				*
		*	LONGITUDE	DP	SEQ		OFFICE		FIELD	*	AFFECTED				*
* TOWER * (BRIDGEBORO SW TRANSMISSION * 40 01 40.95 1263.0 NOT * * TRIANG REC * 12314															
		*	TOWER 1933)	*	74 56 01.67	39.6	DGTZD	*		*		1/27/76	*		*
* TOWER * (BRIDGEBORO NE TRANSMISSION * 40 01 45.61 1406.7 NOT * * TRIANG REC * 12314															
		*	TOWER 1933)	*	74 55 54.22	1285.6	DGTZD	*		*		1/27/76	*		*
* TANK * DELANCO A TANK * 40 03 43.58 1344.1 NOT * * P-5 * 12314															
		*		*	74 56 15.76	373.5	DGTZD	*		*		1/12/76	*		*
* TANK * AMETEK CO ROUND TANK * 40 04 04.66 143.7 NOT * * P-5 * 12314															
		*		*	74 56 34.40	815.2	DGTZD	*		*		1/12/76	*		*
* TANK * (CORNWALL HEIGHTS S AND K * 40 04 06.27 193.4 NOT * * TRIANG REC * 12314															
		*	CO WATER TANK 1933)	*	74 56 34.57	819.2	DGTZD	*		*		1/12/76	*		*
* STACK * (CORNWALL HEIGHTS S AND K * 40 04 07.23 223.0 NOT * * TRIANG REC * 12314															
		*	CO STACK 1933)	*	74 56 36.01	853.3	DGTZD	*		*		1/27/76	*		*
* TANK * (ANDALUSIA ENTERPRISE MFG TANK * 40 04 09.97 307.5 NOT * * TRIANG REC * 12314															
		*	1935)	*	74 56 23.22	550.2	DGTZD	*		*		1/12/76	*		*
* TANK * (CORNWALL HTS CHEM WATER TANK * 40 04 11.56 356.5 NOT * * TRIANG REC * 12314															
		*	1958)	*	74 56 14.45	342.4	DGTZD	*		*		1/12/76	*		*
* STACK * E STACK * 40 04 36.40 1122.7 NOT * * P-5 * 12314															
		*		*	74 56 34.89	826.7	DGTZD	*		*		1/13/76	*		*
* TANK * (PUBLICKER INDUSTRIES TANK * 40 04 33.95 1047.1 NOT * * TRIANG REC * 12314															
		*	1958)	*	74 56 13.27	314.4	DGTZD	*		*		1/12/76	*		*
* TRIANG. LIST 1935															
* TRIANG. LIST 1933															
* TRIANG. LIST 1958															

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	G. FROMM	DATA PROCESSER

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

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* AND/OR VERIFIED BY *	* D. NORMAN G. FROMM *	* OFFICE COMPILER *
* FIELD AND OFFICE *	* NOT DIGITIZED *	* DIGITIZER *
* ACTIVITIES *	* G. FROMM *	* 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]