

TP 00251

TP-00251

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-00251
Classification No. III	Edition No. ... 1
LOCALITY	
State ... Delaware	
General Locality ... Delaware River	
Locality ... Reedy Island to C&D Canal	
19 75 TO 19	
REGISTRY IN ARCHIVES	
DATE	

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

12311 (294

SUMMARY CM-7707
MAPS TP-00246 THRU TP-00256

This summary covers the remaining eleven maps in this project as indicated above. Field edit for these maps was canceled November 16, 1978. They are final reviewed and registered as Class III.

This area was originally scheduled for landmark and aid location under CM-7508. The job was completed in March 1977. All the information obtained for that project 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 natural color photography taken in 1975.

It was decided to use the New Jersey State Plane Grid as the major grid in this portion of the project except for TP-00249, TP-00251, TP-00253, and TP-00255 which ^{also} has the Delaware State Plane Grid as the secondary grid.

Final Review was done in the Rockville, Maryland Office in July and August 1979. Neither the bridging nor compilation photography was available at the time of final review.

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

SURVEY TP. 00251

MAP EDITION NO. (1)

MAP CLASS III

JOB PR. CM-7707

PHOTOGRAMMETRIC OFFICE

Photogrammetry Division
Rockville, Maryland

OFFICER-IN-CHARGE

Cdr. James Collins

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☐ ORIGINAL
- ☐ RESURVEY
- ☐ REVISED

JOB PH. _____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Instructions - AEROTRIANGULATION (CM-7508)
2/4/76

Instructions - OFFICE - CM-7707 3/18/77

2. FIELD

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

Transverse Mercator Projection

4. GRID(S)

STATE New Jersey

ZONE

5. SCALE

1:10,000

STATE Delaware

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	R. Kelly	10/15/76
LANDMARKS AND AIDS BY	D. Norman	10/15/76
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	V. Connolly	7/18/78
PLOTTED BY	NA	
CHECKED BY	NA	
3. STEREOSCOPIC INSTRUMENT COMPILATION	B. Baldwin	10/13/78
PLANIMETRY BY	L.H. Harrod	10/13/78
CHECKED BY	NA	
INSTRUMENT: Wild B-8	NA	
SCALE: 1:10,000	NA	
4. MANUSCRIPT DELINEATION	B. Baldwin	10/19/78
PLANIMETRY BY	L.H. Harrod	10/22/78
CHECKED BY	NA	
METHOD: Smooth Drafting	NA	
CONTOURS BY	NA	
CHECKED BY	NA	
SCALE: 1:10,000	NA	
HYDRO SUPPORT DATA BY	NA	
CHECKED BY	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	NA	
6. APPLICATION OF FIELD EDIT DATA	Field Edit Canceled	11/16/78
CHECKED BY		
7. COMPILATION SECTION REVIEW	G. Fromm	3/20/79
8. FINAL REVIEW	F.R. Watts	8/9/79
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	G. Fromm	4/9/79
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	F. R. Watts	8/9/79
11. MAP REGISTERED - COASTAL SURVEY SECTION	E.A. DAUGHERTY	NOV 1979

NOAA FORM 76-36A

SUPERSEDES FORM C&GS 181 SERIES

COMPILATION SOURCES

TP-00251

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8(E) Camera
Focal length = 152.71 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
75E(C) 8734-8736	4/9/75	1218-1223	1:20,000	+3.65 Ft. MLW
75E(C) 8779-8784	4/9/75	1300-1306	1:20,000	+2.71 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:

No mean low water line was depicted on this map.

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
TP-00249 & TP-00250	TP-00252	TP-00253	No Contemporary Survey

REMARKS

HISTORY OF FIELD OPERATIONS

TP-00251

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	March 1975
	ESTABLISHED BY NA	
	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	7/75 - 11/75
	LOCATED (Field Methods) BY R.S. Tibbetts	7/75-11/75
	IDENTIFIED BY R.S. Tibbetts	7/75-11/75
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ 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
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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

RECORD OF SURVEY USE

TP-00251

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	10/22/78	Class III Map		
Compilation section review completed	3/20/79	Field Edit Canceled Class III Map		
Final Reviewed prior to registration	8/9/79	Class III Map Field Edit Canceled	10/3/79	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

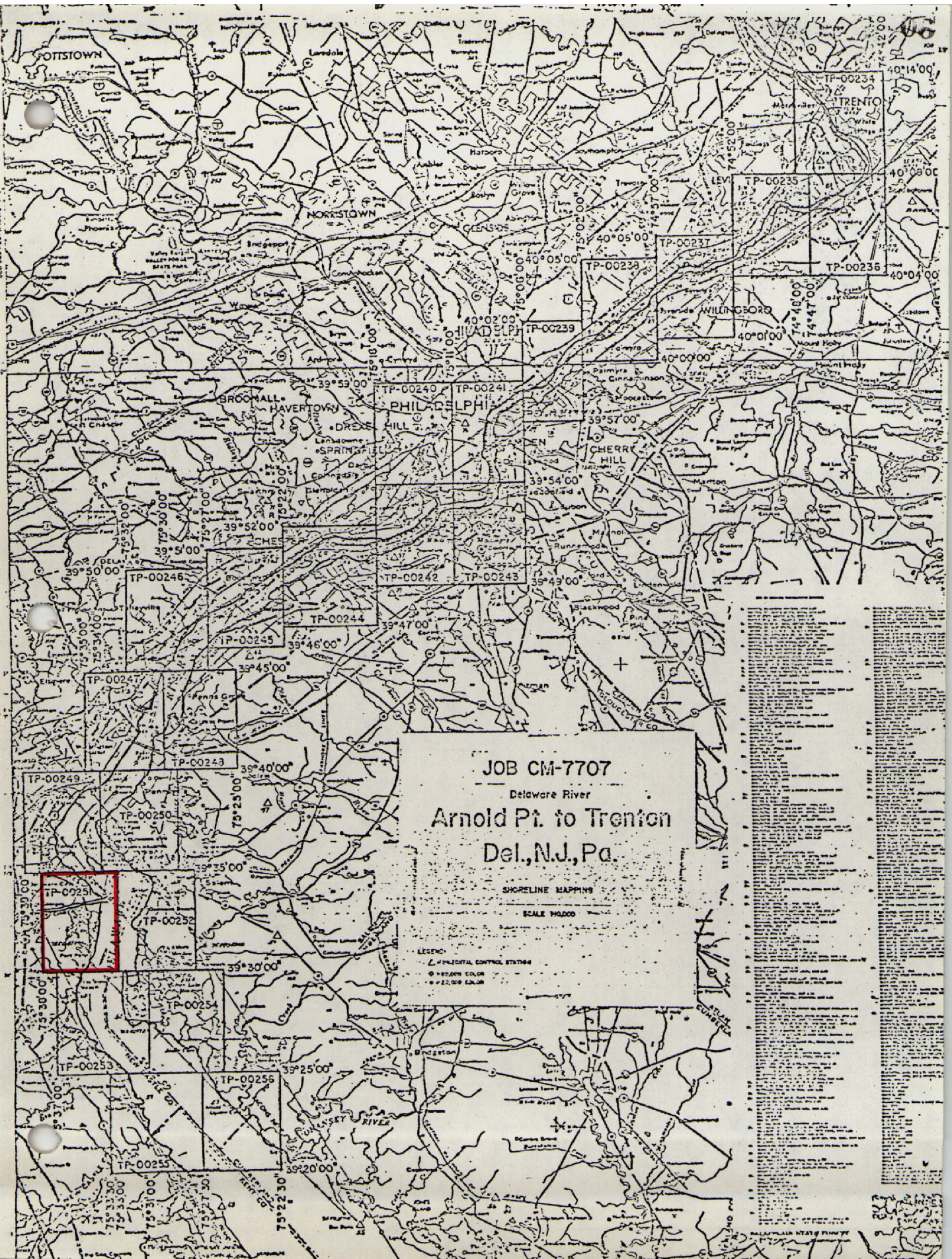
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

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 ☐ 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 - _____	TYPE OF SURVEY ☐ 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 - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



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.

Photogrammetric Plot Report
Delaware River
Arnold Point to Trenton, Delaware, New Jersey
Job CM-78057508
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 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:

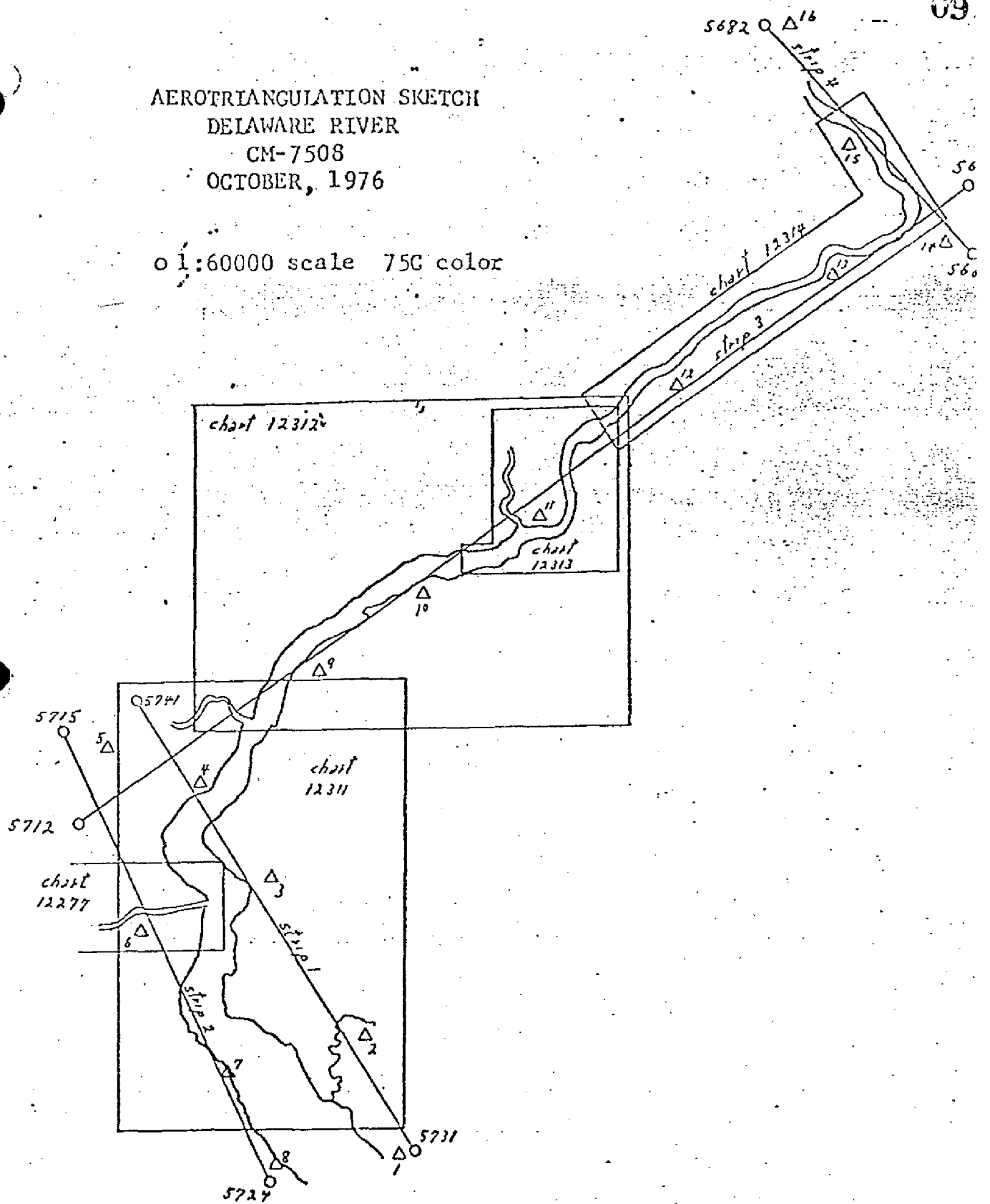
Robert B. Kelly
R. B. Kelly

Approved and Forwarded:

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

AEROTRIANGULATION SKETCH
DELAWARE RIVER
CM-7508
OCTOBER, 1976

01:60000 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

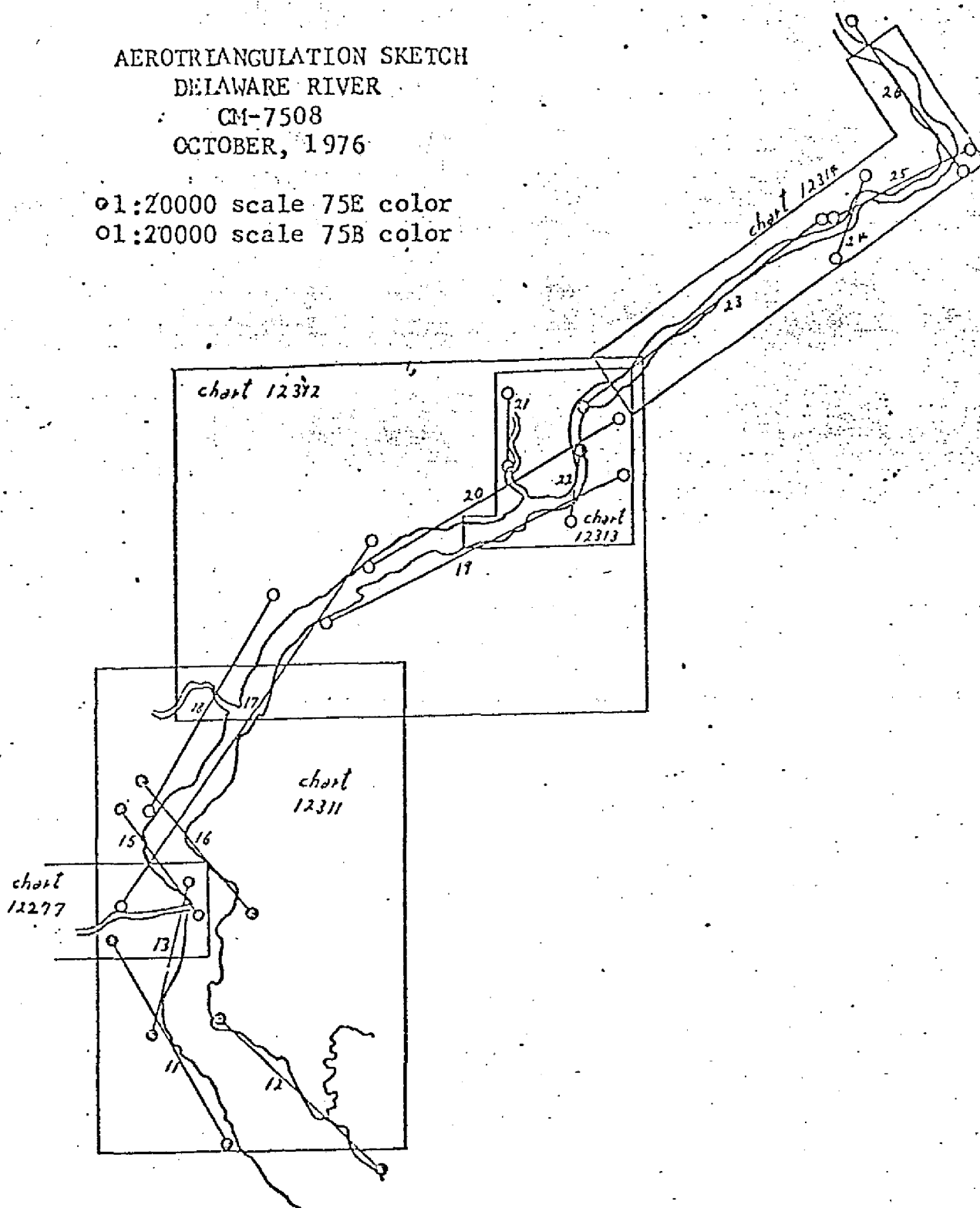
14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND RM, 1933	(0.2, 0.8)
12 PALMYRA RIVERTON-PALMYRA WATER CO. STANDPIPE, 1933	(1.7, 1.8)
11 PHILA NAVY YARD POWER PLANT WATER TANK, 1933	(1.5, 1.4)
10 GIBBSTOWN MUNICIPAL WATER TANK, 1933	(1.3, 0.9)
9 DEPOT, 1933	(2.2, 0.3)
5 CHRIS 2, 1962	(0.6, 0.2)

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

01:20000 scale 75E color
 01:20000 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

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

13

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

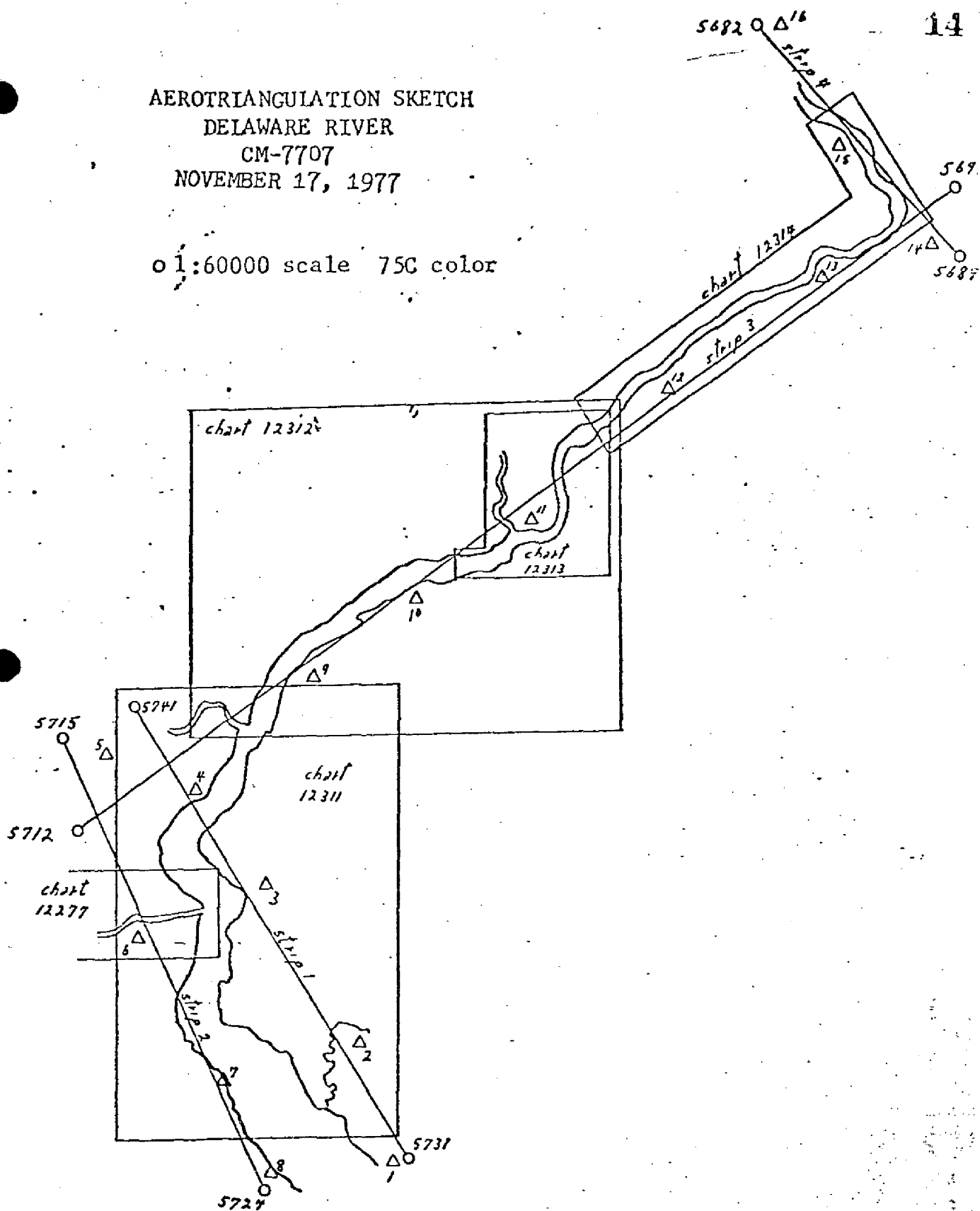
AEROTRIANGULATION SKETCH

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)

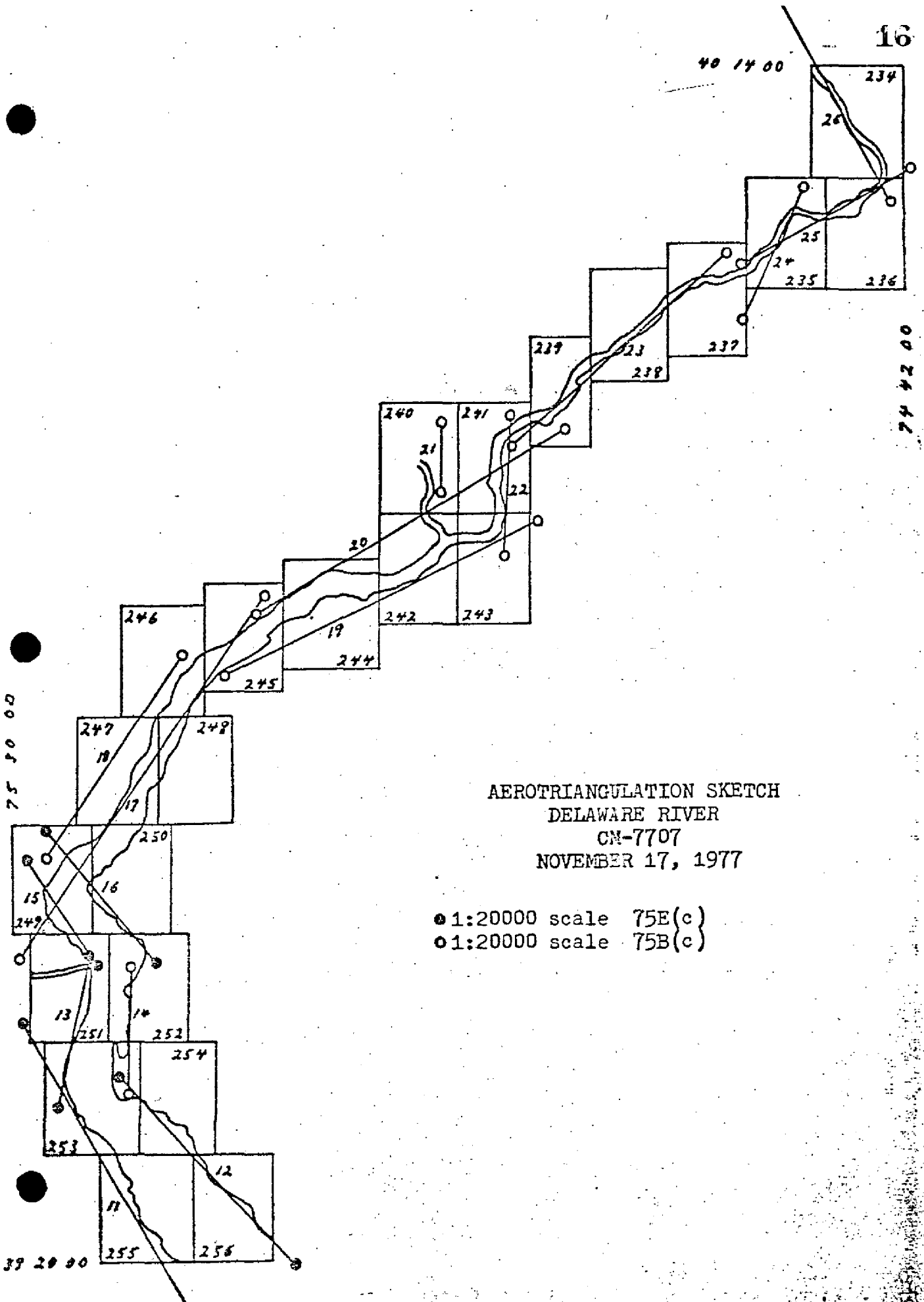
strip 4

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

40 14 00

75 30 00

74 42 00



AEROTRIANGULATION SKETCH
 DELAWARE RIVER
 CM-7707
 NOVEMBER 17, 1977

● 1:20000 scale 75E(c)
 ○ 1:20000 scale 75B(c)

39 20 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 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

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETIC DATUM		COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	REMARKS
					CH-7707	North America 1927		ϕ LATITUDE λ LONGITUDE	ϕ LATITUDE λ LONGITUDE		
TP-00251	Reedy Island Baker Front Range LT 1933	Del. Vol. I G.P. - Pg. 31		780150	X=	Y=		ϕ 39-30-33.12	λ 75-34-00.10	Coastal Mapping Division Rockville, Md.	
	Baker Rear Range Light 1933	Del. Vol. I G.P. - Pg. 35		782150	X=	Y=		ϕ 39-32-26.69	λ 75-34-12.77		
	Delaware City Silver Standpipe 1933	Del. Vol. I G.P. - Pg. 34		737141	X=	Y=		ϕ 39-34-27.57	λ 75-35-39.80		
	Delaware City Fort Dupont Blk water Tank 1933	Del. Vol. I G.P. - Pg. 35		736140	X=	Y=		ϕ 39-34-02.70	λ 75-35-08.26		
	Port Penn Presbyterian Church Spire 1933	Del. Vol. I G.P. - Pg. 37		780140	X=	Y=		ϕ 39-31-00.25	λ 75-34-41.95		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
					X=	Y=		ϕ	λ		
COMPUTED BY								COMPUTATION CHECKED BY		DATE	
LISTED BY								LISTING CHECKED BY		DATE	
HAND PLOTTING BY								HAND PLOTTING CHECKED BY		DATE	

Compilation Report

TP-00251

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 - None34. Contours and Drainage

All drainage is from office interpretation of the color photography.
NO CONTOURS ARE SHOWN.

35. Shoreline and Alongshore Details

WATER
The mean high ¹line was compiled by office interpretation of the color photography. No mean low water line was compiled for this map.

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 listing prepared for the date and method of location of each object.

38. Control for Future Surveys

No form 524 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 quadrangles:

Delaware City, Del-NJ., 1:24,000 scale, 1948 Edition photo-revised 1970.

St. Georges, Del., 1:24,000 scale, 1953 Edition photo revised 1970.

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

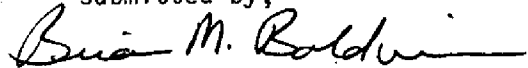
12311 (formerly C&GS 294), 1:40,000 scale, 26th Edition dated 7/30/77

12277 (formerly C&GS 570), 1:20,000 scale, 15th Edition dated 4/23/77

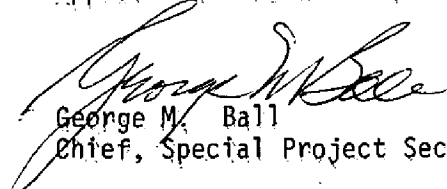
Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,


B. Baldwin

Approved and Forwarded:


George M. Ball
Chief, Special Project Section

Final Review Report
CM-7707
Shoreline Survey, TP-00251

61. General Statement

Field edit was canceled November 1978, consequently this map is registered as Class III. All landmarks and aids were located in the field for Job CM-7508 which covers this same area. The compilation for the 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 Marine Map and Charts with this job.

62. thru 64. Inapplicable

65. Comparison with Nautical Charts

This map was compared with the following:

Chart 12311 (formerly C&GS 294) 1:40,000 scale, 26th Edition, dated 7/30/77. It was noted that the south limits of Pea Patch Island no longer extends below 39°35' as indicated on chart 12311.

Chart 12277 (formerly C&GS 570) 1:20,000 scale, 15th Edition, dated 4/23/77.

66. Adequacy of Results and Future Surveys

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

Submitted by,

F. R. Watts

F. R. Watts

Approved and Forwarded: ^{mw}

John D. Perrow Jr.
Chief, Photogrammetric Branch

James L. Little
Chief, Photogrammetry Division

November 1, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7707 (Delaware River, PA., DEL., N.Y.)

TP-00251

Augustine Beach (Ppl)

Augustine Creek

Canadas Beach (Ppl)

Chesapeake and Delaware Canal

Delaware City

Delaware City Branch Channel

Delaware River

Dutch Neck

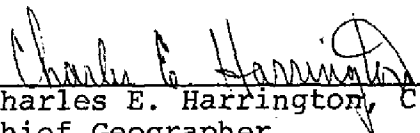
Port Penn

Reedy Island

Reedy Point

St. Georges Creek

Approved by:


Charles E. Harrington, C3x8
Chief Geographer

* SVY	TP-00251	* NONFLOATING AIDS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE	1 OF 4	*
* JOB	CM-7707	* TO BE REVISED	* STATE	DELAWARE	* ORIGINATING	ACTIVITY	*
* PRJ	DEL. RIVER		* LOCALITY	DELAWARE RIVER	* COMPILATION		*
* DTM	NA 1927		* DATE	07/24/78			*
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *							
* CHARTING*	RECORD REASON FOR DELETION	* POSITION	CMD *	METHOD AND DATE	* CHARTS		*
* NAME	PUT TRIANGULATION NAMES IN ()	* LATITUDE	DM	OF LOCATION	* FIELD	* AFFECTED*	*
		* LONGITUDE	DP	OFFICE			*
* DELAWARE RIVER * * * * *							
* WEST SIDE * * * * *							
* FRONT	* (REEDY ISLAND BAKER FRONT	* 39 30 33.12	1021.4	NOT *	* TRIANG REC*	12311	*
* LIGHT	* RANGE LT 1933)	* 75 34 00.10	2.4	DGT2D*	* 7/24/75	*	*
* REAR	* (BAKER REAR RANGE LT 1933)	* 39 32 26.69	823.1	NOT *	* TRIANG REC*	12311	*
* LIGHT		* 75 34 12.77	304.9	DGT2D*	* 8/27/75	* 12277	*
* NORTH	* REEDY ISLAND GAP NORTH DYBN 2	* 39 30 13.75	424.0	NOT *	* P-5	* 12311	*
* DYBN 2		* 75 34 07.48	179.7	DGT2D*	* 7/25/75	*	*
* LIGHT	* REEDY ISLAND LT--NEW LT	* 39 30 02.26	69.7	NOT *	* P-5	* 12311	*
		* 75 34 08.96	214.1	DGT2D*	* 8/11/75	*	*
* SOUTH	* REEDY ISLAND GAP SOUTH DYBN 1	* 39 30 11.94	368.2	NOT *	* 75EC8727		*
* DYBN 1		* 75 34 07.94	189.7	DGT2D*	* P-5	* 12311	*
					* 7/25/75	*	*
					* 75EC8780		*
* CHESAPEAKE AND DELAWARE CANAL * * * * *							
* -LIGHT	* 2	* 39 33 46.18	1424.2	NOT *	* P-5	* 12311	*
		* 75 33 33.76	805.9	DGT2D*	* 8/28/75	* 12277	*
					* 75EC8735		*

* 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			
G. FROMM			
* * * * *			
FIELD REPRESENTATIVE			
OFFICE COMPILER			
DIGITIZER			
DATA PROCESSER			
* * * * *			

* SVY	* TP-00251	* RPT UNIT	* CMD ROCKVILLE, MD.	* PAGE	* 3 OF 4
* JOR	* CM-7707	* STATE	* DELAWARE	* ORIGINATING	* ACTIVITY
* PRJ	* DEL. RIVER	* LOCALITY	* DELAWARE RIVER	* COMPILATION	
* DTM	* NA 1927	* DATE	* 07/24/78		
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *					
* CHARTING*	* RECORD REASON FOR DELETION	* POSITION	* CMD *	* METHOD AND DATE	* CHARTS
* NAME	* PUT TRIANGULATION NAMES IN ()	* LATITUDE	* ALTEK*	* OF LOCATION	* FIELD
		* LONGITUDE	* DGTD*	* OFFICE	* *AFFECTED*

[illegible]

* 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 *

CM-7707

Delaware River

TP-Sheets 00246 thru 00256

NATIONAL ARCHIVES

18 76-41 Forms

Bridging Printouts

List of triangulation stations reported on NOAA Forms 76-96

List of USGS Quad Coverage

" " Chart Coverage

Tide Data

11 Sets (1 set for each map) 76-40 Forms

2 Project Diagrams with flight lines indicated

Compilation Report

Index to 1:60,000 Photos

Delaware River

CM-7707

NATIONAL ARCHIVES

Strip 1	75C(C) 5729-5743
Strip 2	75C(C) 5715-5724
Strip 3	750(C) 5691-5713
Strip 4	75C(C) 5682-5689

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

NATIONAL ARCHIVES

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) 4879-4882⁶

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

CM-7508

Delaware River

NATIONAL ARCHIVES

82 76-40 Forms

1 Control Diagram

6 Charts (Field annotated) 12304, 12311, 12277, 12312, 12313,
and 12314

Computer printouts

16 C&GS 738 Forms

19 C&GS 155 Forms

1 Photogrammetric Plot Report

12 76-36C Forms

15 76-72 Forms

410 76-53 Forms

21 76-41 Forms

104 76-40 (Field Copy)

1 Bridging Printout

227 76-96 Forms

Field Inspection Photos:

75E(C) 8755

75E(C) 8672-8691

75E(C) 8710-8729

75E(C) 8774-8785

75B(C) 4729-4738

75E(C) 8730-8742

75E(C) 8743-8754

75B(C) 4739-4763

75B(C) 4764-4786

75B(C) 4787-4811

75B(C) 4812-4838

75B(C) 4839-4849

75B(C) 4878-4888

75B(C) 4894-4910

75B(C) 4911-4921

75B(C) 4922-4937

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]