TP 00250

TP 00250

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-00250

Classification No. III *Edition No.* 1

LOCALITY

State Delaware - New Jersey

General Locality Delaware River

Locality March Pt. to Cedar Pt.

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
- [X] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP- 00250
MAP EDITION NO. (1)
MAP CLASS III
JOB PH- CM-7707

PHOTOGRAMMETRIC OFFICE
Photogrammetry Division
Rockville, Maryland

OFFICER-IN-CHARGE
Cdr. James Collins

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
Instructions-AEROTRIANGULATION (CM-7508) 2/4/76	Instructions-FIELD (CM-7508) 3/4/75
Instructions-OFFICE-CM-7707 3/18/77	Instructions-FIELD (CM-7508) Supplement I 7/11/75

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [ ] MEAN HIGH-WATER [ ] MEAN LOW-WATER [X] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify) National Geodetic Vertical Datum of 1929

3. MAP PROJECTION: Transverse Mercataor Projection

4. GRID(S): STATE New Jersey; ZONE

5. SCALE 1:10,000 — STATE; ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	R. Kelly	10/15/76
	LANDMARKS AND AIDS BY	D. Norman	10/15/76
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	V. Connelly	7/18,78
	CHECKED BY	NA	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:10,000	PLANIMETRY BY	B. Baldwin	9/27/78
	CHECKED BY	L. Harrod	9/27/78
	CONTOURS BY	NA	
	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION METHOD: Smooth Drafting SCALE: 1:10,000	PLANIMETRY BY	B. Baldwin	10/9/78
	CHECKED BY	L. Harrod	10/10/78
	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	NA	
	CHECKED BY	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	NA	
6. APPLICATION OF FIELD EDIT DATA	BY	Field Edit Canceled	11/16/78
	CHECKED BY	NA	
7. COMPILATION SECTION REVIEW	BY	G. Fromm	3/12/79
8. FINAL REVIEW	BY	F.R. Watts	8/8/79
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	G. Fromm	4/9/79
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	F. R. Watts	8/8/79
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. L. DAUGHERTY	NOV 1979

NOAA FORM 76-36B
(3-72)

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

COMPILATION SOURCES

TP-00250

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(B) & RC-8(E) 152.7 mm focal lengths

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
ZONE: Eastern
MERIDIAN: 75th
- [X] STANDARD
- [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
75E(C) 8745-8748	4/9/75	1237-1243	1:20,000	+4.06 Ft. MLW
75B(C) 4748-4751	8/28/75	905-914	1:20,000	+.78 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 is 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-00247 & TP-00248	NO Contemporary Survey	TP-00251 & TP-00252	TP-00249

REMARKS

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS TP-00250

I. [X] 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 [X] 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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] 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

NOAA FORM 76-36C
(3-72)

☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

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

RECORD OF SURVEY USE TP-00250

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	11/16/78	Class III map		
Final reviewed prior to registration	8/8/79	Field Edit canceled Class III map	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: _____

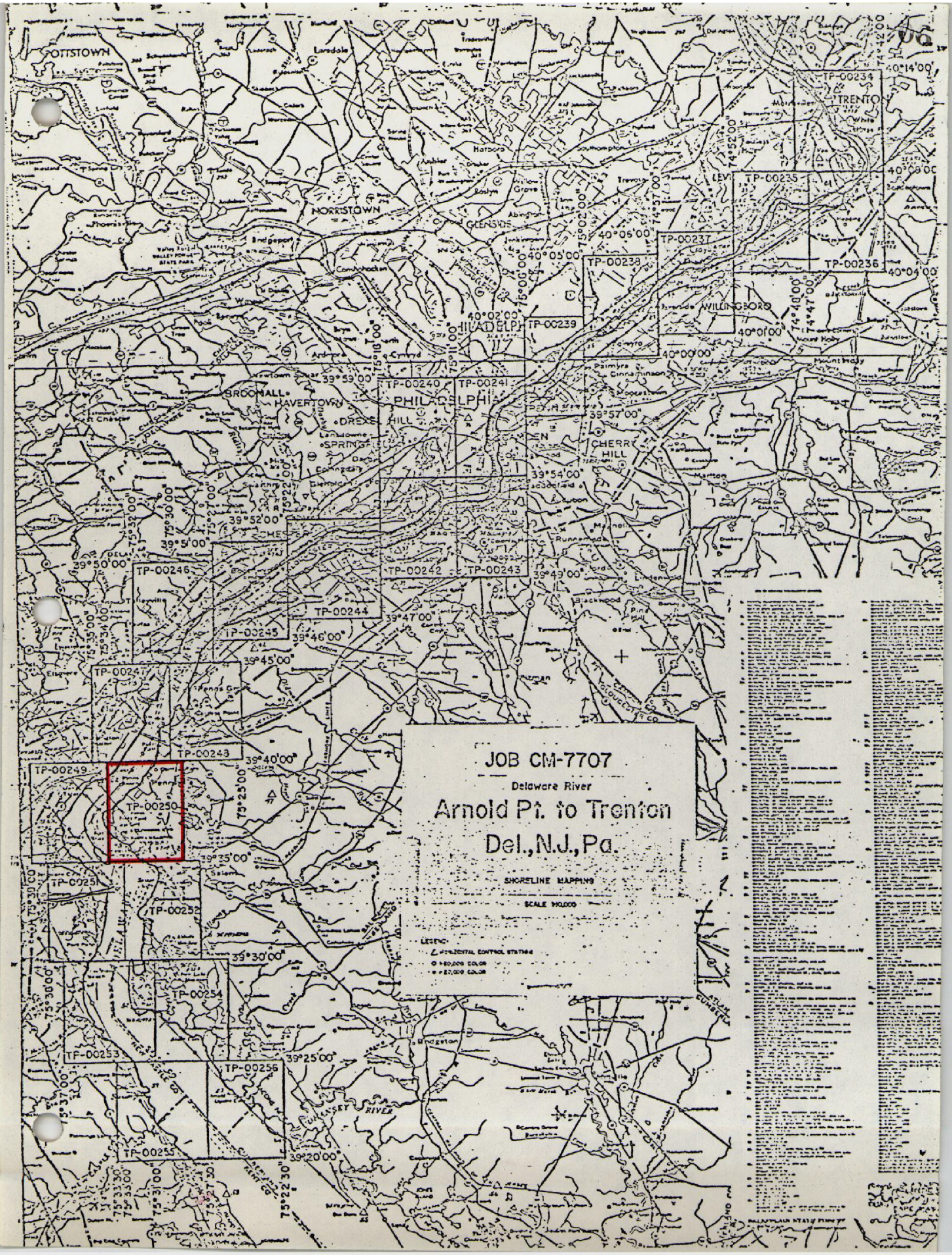
III. FEDERAL RECORDS CENTER DATA

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)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY DATE OF PHOTOGRAPHY: DATE OF FIELD EDIT: ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
THIRD EDITION	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY DATE OF PHOTOGRAPHY: DATE OF FIELD EDIT: ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
FOURTH EDITION	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY DATE OF PHOTOGRAPHY: DATE OF FIELD EDIT: ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL

☆U.S. Government Printing Office: 1975 — 665-661/1108, Region No. 6


JOB CM-7707
Delaware River
Arnold Pt. to Trenton
Del., N.J., Pa.
SHORELINE MAPPING
SCALE 1:10,000
LEGEND
HORIZONTAL CONTROL STATIONS
1:10,000 COLOR
1:20,000 COLOR
POTTSTOWN
NORRISTOWN
GLENSIDE
TRENTON
WILLINGBORO
PHILADELPHIA
BROOMALL
HAVERTOWN
DREXEL HILL
SPRING
CHERRY HILL
TURKEYSET RIVER
TP-00234
TP-00235
TP-00236
TP-00237
TP-00238
TP-00239
TP-00240
TP-00241
TP-00242
TP-00243
TP-00244
TP-00245
TP-00246
TP-00247
TP-00248
TP-00249
TP-00250
TP-00251
TP-00252
TP-00253
TP-00254
TP-00255
TP-00256
40°14'00"
40°09'00"
40°06'00"
40°05'00"
40°04'00"
40°02'00"
40°01'00"
40°00'00"
39°59'00"
39°57'00"
39°54'00"
39°52'00"
39°50'00"
39°49'00"
39°47'00"
39°46'00"
39°45'00"
39°40'00"
39°35'00"
39°30'00"
39°25'00"
39°20'00"
75°25'00"
75°22'30"

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 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 determind 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 tropographic 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

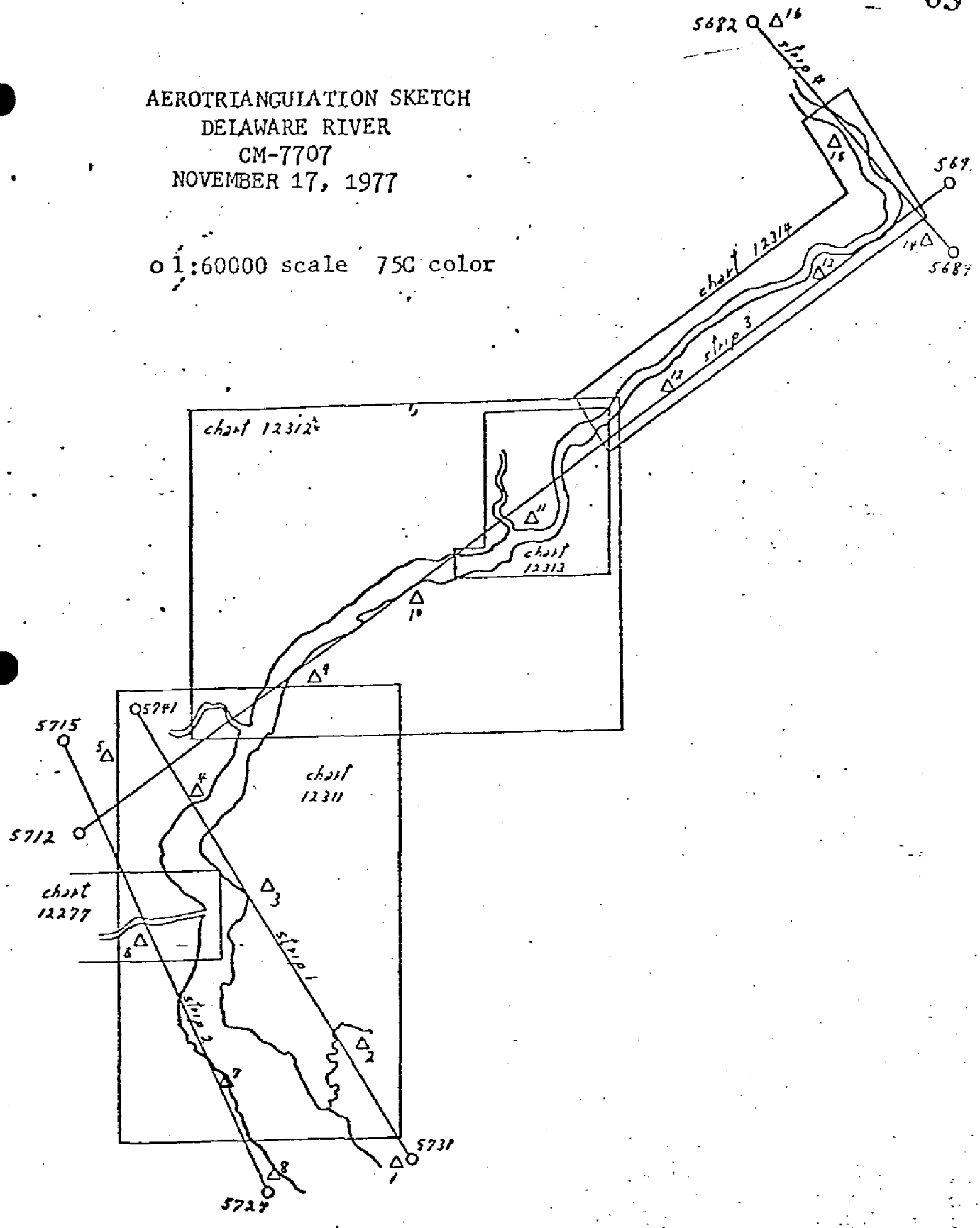
Approved and forwarded:

John D. Perrow Jr.

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

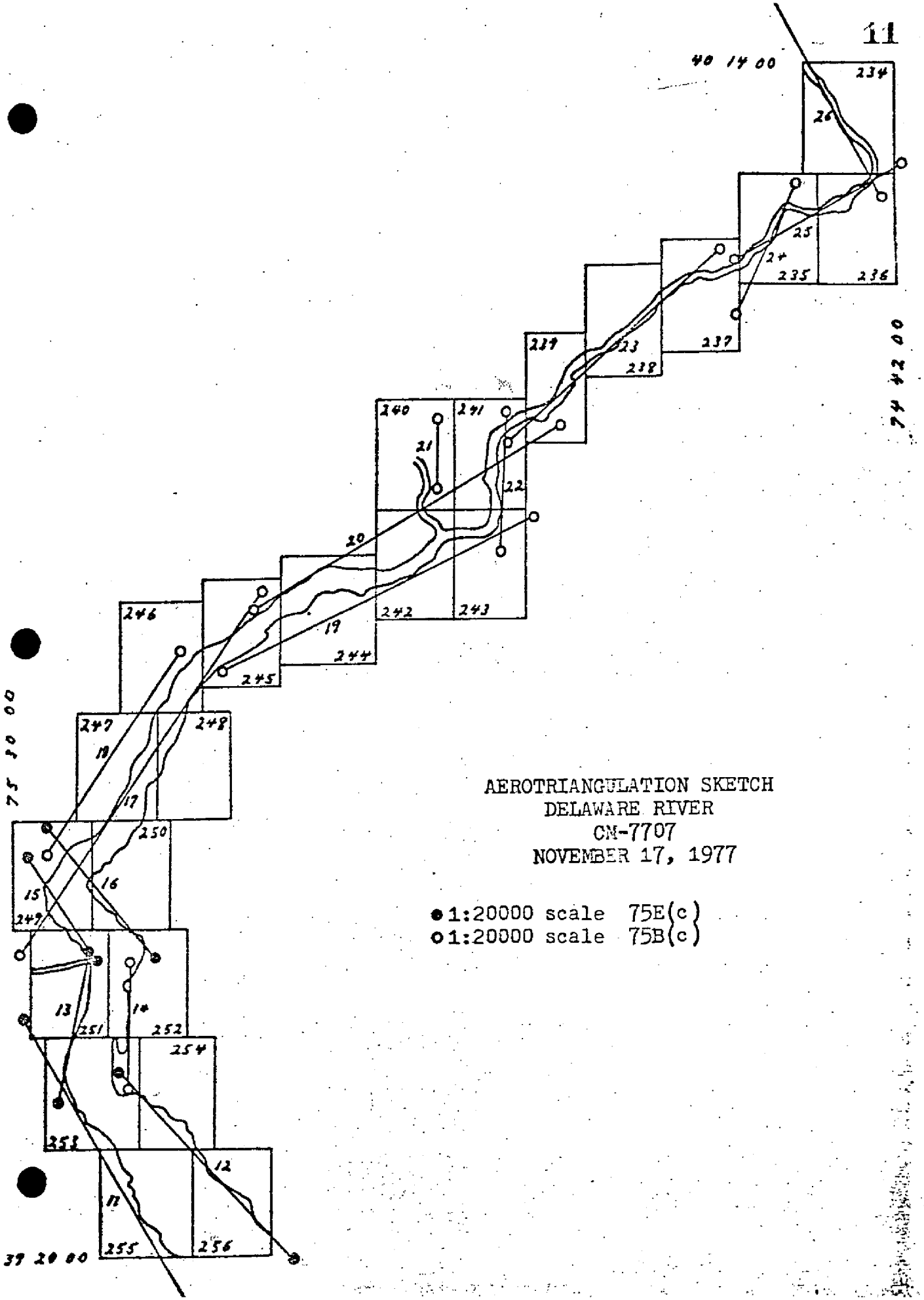
AEROTRIANGULATION SKETCH
DELAWARE RIVER
CM-7707
NOVEMBER 17, 1977

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 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
CN-7707
NOVEMBER 17, 1977

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

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

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 ~~compilation~~ 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:

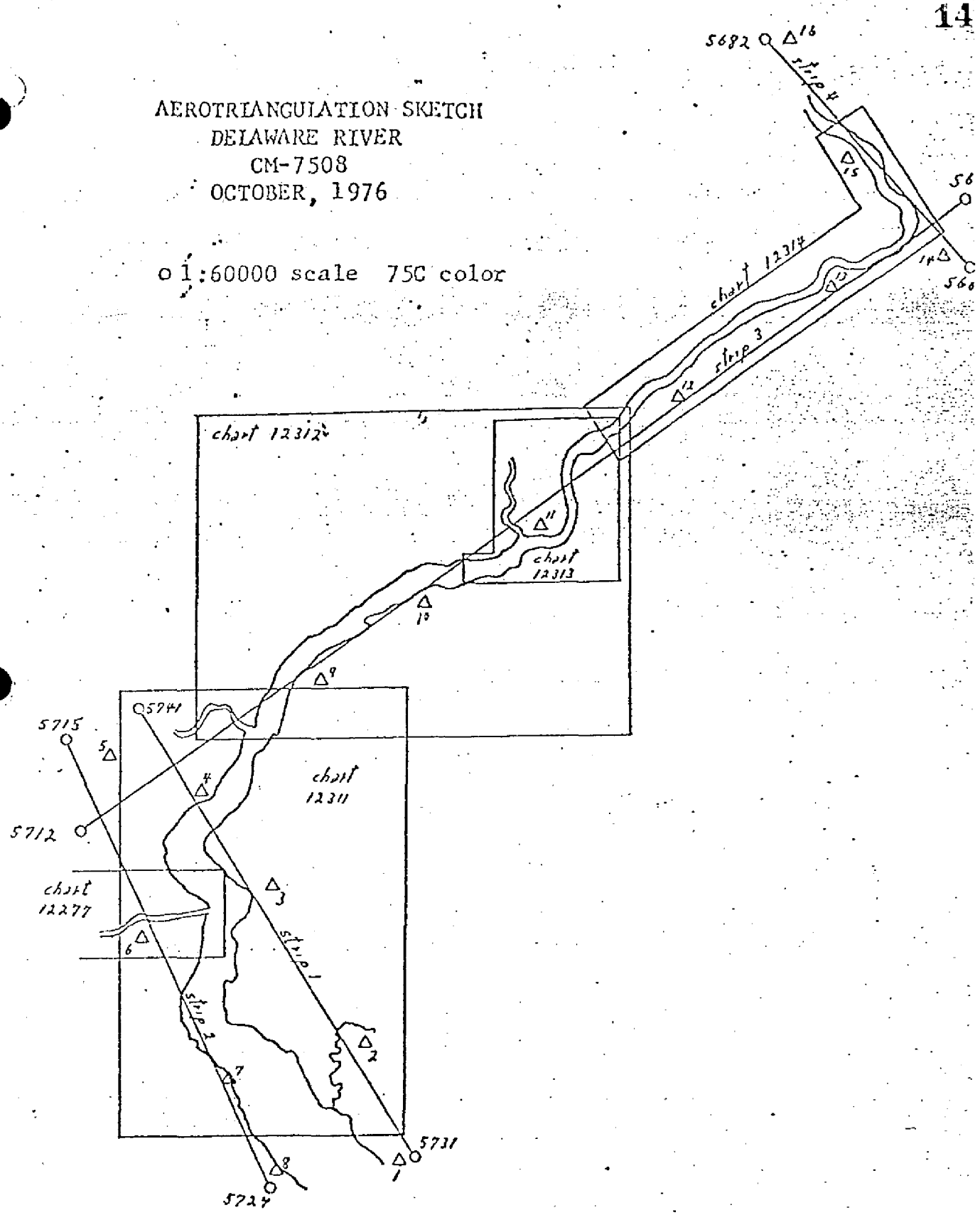
Robert B. Kelly
R. B. Kelly

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

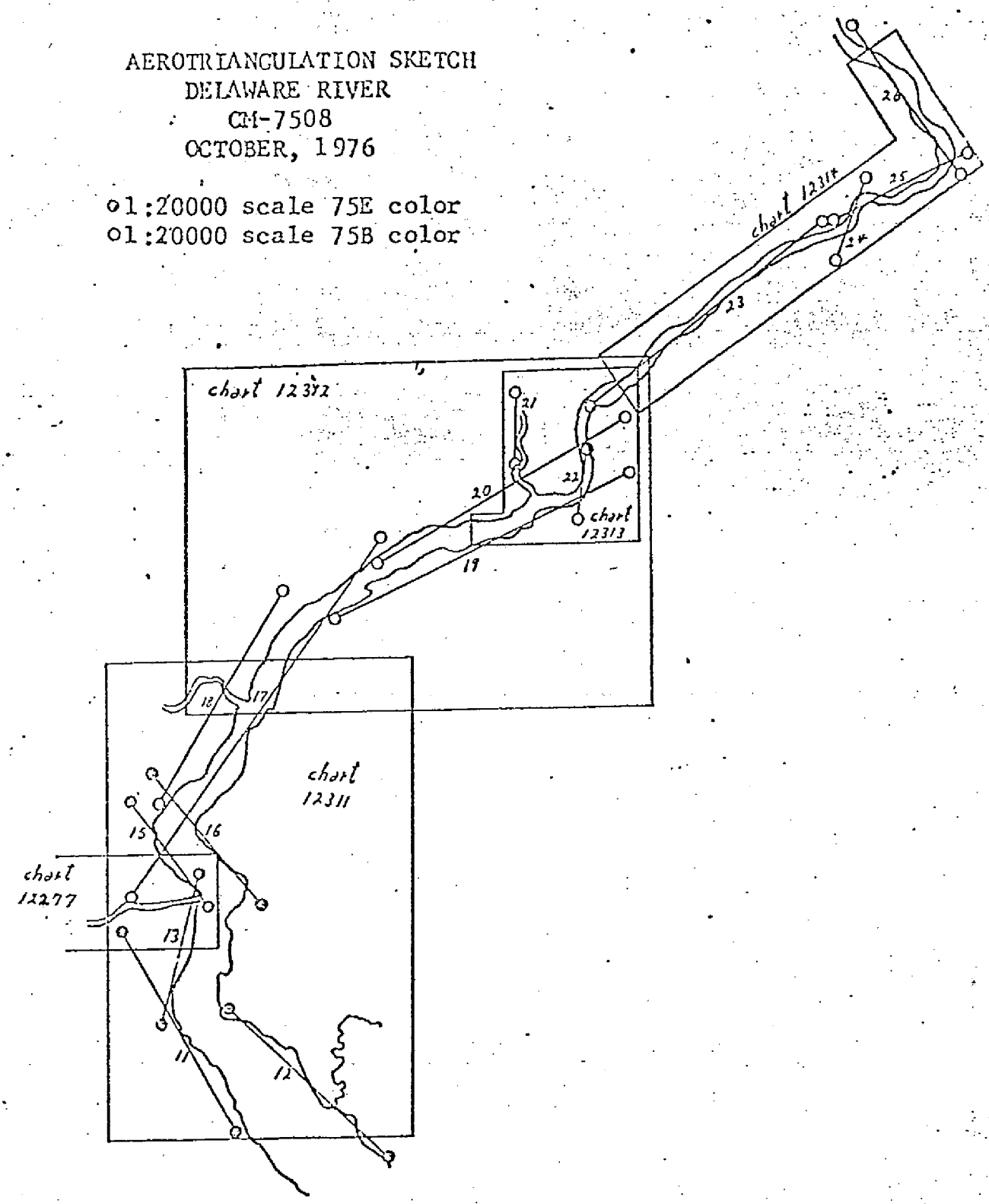


fit to control
(feet)

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 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

o 1:20000 scale 75E color
o 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

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00250	CM-7707	North American 1927	Coastal Mapping Div. Rockville, Md.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET (STATE / ZONE)	GEOGRAPHIC POSITION (φ LATITUDE / λ LONGITUDE)	REMARKS
New Castle Emmanuel Protestant Episcopal Church Spire 1933	Del. Vol I G.P. - Pg. 60	750140	x= y=	φ 39-39-38.37 λ 75-33-46.98	
New Castle Masonic Temple Beltry 1933	Del. Vol I G.P. - Pg. 60	750141	x= y=	φ 39-39-36.30 λ 75-33-54.35	
Fort Mott National Cemetry Monument 1933	Del Vol I G.P. - Pg. 125	751141	x= y=	φ 39-36-41.74 λ 75-33-23.20	
Finns Point Rear Range LT 1933	Del Vol I G.P. - Pg. 126	751140	x= y=	φ 39-37-01.06 λ 75-32-03.31	
			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	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY G. Fromm	DATE 7/25/78	LISTING CHECKED BY Robert W. Rodberg Jr	DATE 7/25/78
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

Compilation Report

TP-00250

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.
THERE ARE NO CONTOURS SHOWN.

35. Shoreline and Alongshore Details

The mean high water line was compiled by office interpretation of the color photography. No mean low water was depicted 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 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 quadrangles:

Wilmington South, Del.-N.J., 1:24,000 scale, 1967 Edition
Delaware City, Del.-N.J., 1:24,000 scale, 1948 Edition photo revised 1970
No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following chart:

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

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

Brian M. Baldwin

B. Baldwin

Approved and Forwarded:

George M. Ball
Chief, Special Projects Section

Final Review Report
CM-7707

Shoreline Survey TP-00250

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 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. thru 64. Inapplicable

65. Comparison with Nautical Charts

This map was compared with the following:

Chart 12311, Pub. July 1977, 26th Edition - 1:40,000 scale

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:

John D. Perreau Jr.

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

November 1, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00250

Brandriff Beach
Cedar Point
Central Park (Ppl)
Delaware River
Finns Point
Fort Mott
Goose Pond
Kelly Point
Killcohook National Wildlife Refuge
Marsh Point
Miles Creek
Mill Creek
New Castle
Pea Patch Island
Penns Beach (Ppl)
Pennsville
Riverview Beach
Travis Cove

Approved by:

Charles E. Harrington, C3x8
Chief Geographer

76-40 LISTIN

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB VERSION 770818

SVY TP-00250	LANDMARKS FOR CHARTS TO BE REVISED	RPT UNIT CMD ROCKVILLE, MD.	PAGE 2 OF 2
JOB CM-7707		STATE NEW JERSEY	
PRJ DEL. RIVER		LOCALITY DELAWARE RIVER	ORIGINATING ACTIVITY
DTM NA 1927		DATE 07/24/78	COMPILATION

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

CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CMD ALTEK DGTZD	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
TANK	BRANDIFF BEACH GREEN WATER TANK	39 39 58.03 75 30 45.07	1789.7 1074.3	NOT DGTZD		P-5 11/12/75 75BC4744	12311
TANK	TUFTS ROAD TREATMENT PLANT GREEN TANK HT=150 FT	39 37 50.22 75 31 48.37	1548.8 1153.5	NOT DGTZD		F-3-6-L 11/12/75	12311
SPIRE	(NEW CASTLE EMMANUEL PROTESTANT EPISCOPAL CH SP 1933)	39 39 38.37 75 33 46.98	1183.4 1119.9	NOT DGTZD		TRIANG REC 11/14/75	12311
BELFRY	(NEW CASTLE MASONIC TEMPLE BELFRY 1933)	39 39 36.30 75 33 54.35	1119.5 1295.6	NOT DGTZD		TRIANG REC 11/14/75	12311
MONUMENT	(FORT MOTT NATIONAL CEMETRY MONUMENT 1933)	39 36 41.74 75 33 23.20	1287.3 553.4	NOT DGTZD		TRIANG REC 7/17/75	12311
TOWER	(FINNS POINT REAR RANGE LIGHT 1933) DISCONTINUED BLK	39 37 01.06 75 32 03.31	32.7 79.0	NOT DGTZD		TRIANG REC 7/17/75	12311

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	PHOTO FIELD PARTY 62	PHOTO FIELD PARTY
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

76-40
LISTIN

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB
VERSION
770818

SVY TP-00250		RPT UNIT CMD ROCKVILLE, MD.	PAGE 1 OF 2	
JOB CM-7707	NONFLOATING AIDS FOR CHARTS	STATE NEW JERSEY		
PRJ DEL. RIVER	TO BE REVISED	LOCALITY DELAWARE RIVER	ORIGINATING ACTIVITY	
DTM NA 1927		DATE 07/24/78	COMPILATION	

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM OP	CMD ALTEK DGTZD	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
	MAIN CHANNEL						
LIGHT	FORT DELAWARE LT 3rd CG ↑Moved LNM 25/78	39 35 25.28 75 33 55.09	779.6 1314.6	NOT DGTZD		P-5 7/22/75 75EC8737	12277 12311

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

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	75C(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)	4879-4882 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

CM-7508

Delaware River

NAT'L 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

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

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 Revi

CHART	DATE	jol CARTOGRAPHER	REMARKS
12311	10-22-79	DC HARPINE	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 48
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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			Drawing No.
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63