ORIGINAL

TP-00318

TP-00318

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Job No. PH-7012 *Map No.* TP-00318

Classification No. *Edition No.* 1

FIELD EDITED MAP

LOCALITY

State Virginia - District of Columbia

General Locality Potomac River

Locality Hains Point

1972 TO 1975

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-761-152

12285 101 A - D.K. 9/77

12289 560 P/A Bill W. 2-79

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- 00318
MAP EDITION NO. (1)
MAP CLASS Final (F.E.)
JOB PH- 7012

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division, Norfolk, VA

OFFICER-IN-CHARGE: Jeffrey G. Carlen, Cdr.

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
Aerotriangulation Jan. 9, 1973 Compilation Feb. 14, 1973	July 18, 1972

II. DATUMS

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

2. VERTICAL: [X] MEAN HIGH-WATER [X] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Polyconic

4. GRID(S)

STATE	ZONE
Virginia	North
Maryland	

5. SCALE: 1:10,000

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	D.M. Brant	Feb. 1973
METHOD: Stereoplanigraph	ANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY		
METHOD: Coradomat	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	L.O. Neterer, Jr.	Apr. 1973
	CHECKED BY	R. White/A. Shands	Apr. 1973
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R.R. White	Apr. 1973
	CHECKED BY	A.L. Shands	May, 1973
METHOD: Smooth Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	R.R. White	Apr. 1973
SCALE: 1:10,000	CHECKED BY	A.L. Shands	May, 1973
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	A.L. Shands	May, 1973
6. APPLICATION OF FIELD EDIT DATA	BY	G.R. Vanderhaven	Feb. 1975
	CHECKED BY	A.L. Shands	Mar. 1975
7. COMPILATION SECTION REVIEW	BY	A.L. Shands	Mar. 1975
8. FINAL REVIEW	BY	A.L. Shands	Dec. 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	A.L. Shands	Mar. 1977
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	J.B. Phillips	Apr. 1977
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R.T. Cofer	May 1977

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-00318

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "E"

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

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

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

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72E(CI)1601	18 APR 72	10:29	1:30,000	2.9 ft. above MLW
72E(CI)1615 & 1616	18 APR 72	10:49	1:30,000	3.1 ft. above MLW
72E(CI)1625 - 1628	18 APR 72	11:07	1:30,000	3.1 ft. above MLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the photographs listed above.

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

No mean low water line was compiled. No low water photography was available.

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 Survey	TP-00333	TP-00319	TP-00217

REMARKS

NOAA FORM 76-36B
(3-72)

* U. S. GOVERNMENT PRINTING OFFICE: 1974-768-078

NOAA FORM 76-36C
(3-72)

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

TP-00318

HISTORY OF FIELD OPERATIONS

I. [X] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R.D. Olson	Oct. 1972
2. HORIZONTAL CONTROL	RECOVERED BY	R.D. Olson	Oct. 1972
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	R.D. Olson	Oct. 1972
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	None	
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED: NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
72E(C1) 1616	ST. ELIZABETH'S INSANE ASYLUM, RED STACK, 1934		
72E(C1) 1616	INSANE, 1912		
72E(C1) 1627	GATE 2, 1970		

3. PHOTO NUMBERS *(Clarification of details)*

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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)*

3 Form 152 Control Station Identification

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36C
(3-72)

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

TP-00318

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		James W. Davis	Aug. 1973
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
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	James W. Davis	Aug. 1973
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	James W. Davis	Aug. 1973
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	James W. Davis	Aug. 1973
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None

2. VERTICAL CONTROL IDENTIFIED
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

72E(CI)1615, 72E(CI)1616

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
72E(CI) 7216	STACK STACK STRUCTURE BUILDING		

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)*

1 Field Edit Ozalid
1 Field Edit Report
3 Form 76-40

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36C
(3-72)

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

TP-00318

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		G.W. Jamerson	Nov. 1974
2. HORIZONTAL CONTROL	RECOVERED BY	G.W. Jamerson	Nov. 1974
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
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	G.W. Jamerson	Nov. 1974
	LOCATED *(Field Methods)* BY	G.W. Jamerson	Feb. 1975
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	G.W. Jamerson	Nov. 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

72E(CI)1601, 72E(CI)1627, 72E(CI)1628

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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)*

1 Field Edit Report
1 Field Edit Ozalid
1 Field Copy (film) TP-00318
4 Form 76-40

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

TP-00318

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

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline compiled from Lat. 38° 52' South and Anacostia River	Mar.,1973	Partially compiled		
Compilation complete pending field edit	Apr.,1973	Class III Manuscript	6/8/73	6/6/73
Field Edit Applied Compilation Complete	Feb.,1975	Class I Manuscript	4/18/75	
Final Review	Dec.,1976			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		7/16/75	Landmarks to be deleted
1		7/16/75	Landmarks to be charted
1		7/16/75	Nonfloating Aids to be charted

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. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [ ] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; [X] FORM NOS 76-40 ~~X97~~ SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. [X] DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: May 1977

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

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

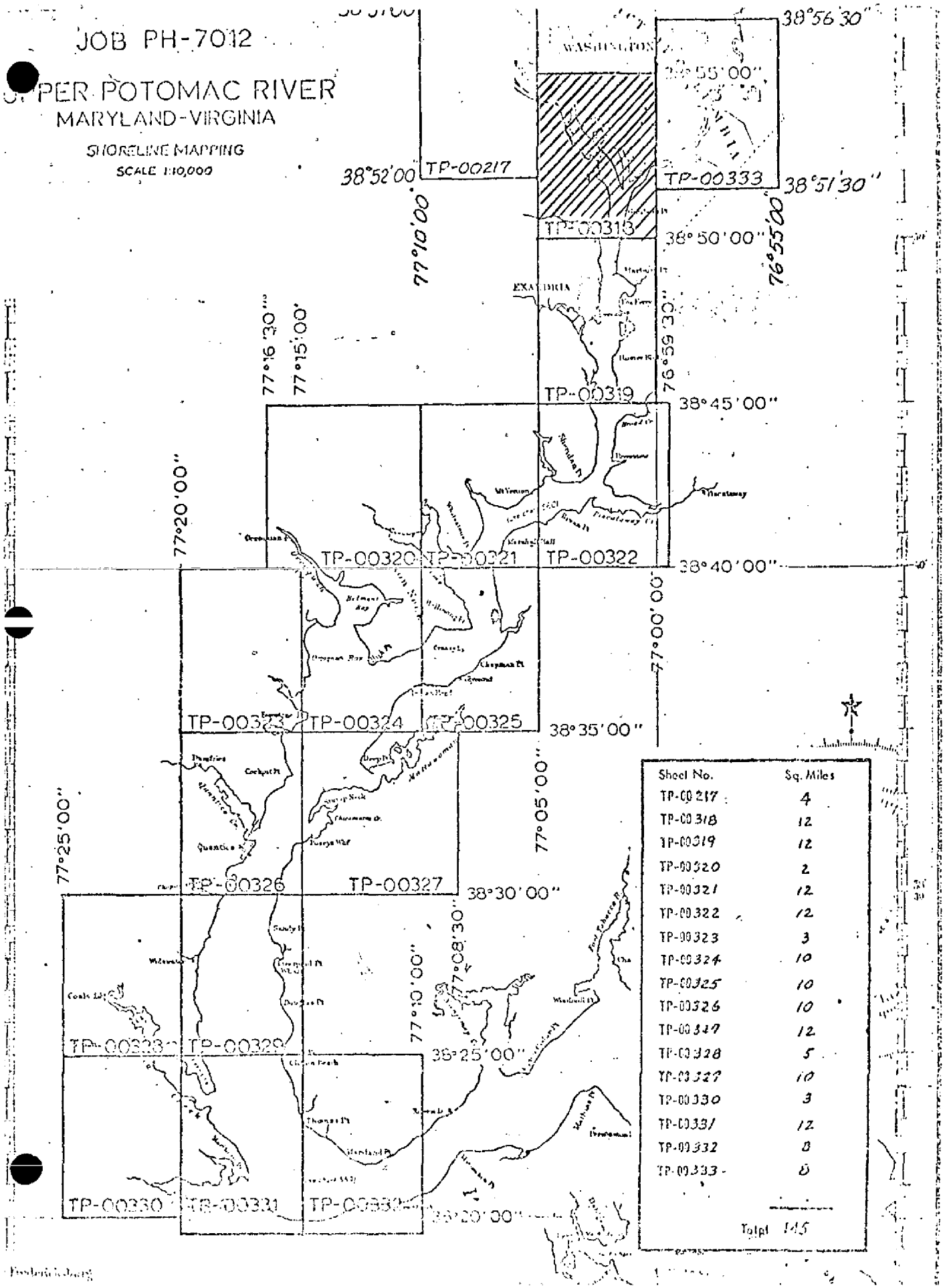
NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING
SCALE 1:10,000



Sheet No.	Sq. Miles
TP-00217	4
TP-00318	12
TP-00319	12
TP-00320	2
TP-00321	12
TP-00322	12
TP-00323	3
TP-00324	10
TP-00325	10
TP-00326	10
TP-00327	12
TP-00328	5
TP-00329	10
TP-00330	3
TP-00331	12
TP-00332	8
TP-00333	8
Total	145

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00318 thru TP-00322, TP-00217 and TP-00333

Project PH-7012 covers the upper Potomac River from Maryland Point north to Latitude 38° 57' 00" at Little Falls Dam. All tributaries emptying into the Potomac along this route were mapped to their headwaters.

There are seventeen 1:10,000 scale maps in this project, the purpose of which is to provide contemporary shoreline in support of hydrographic operations conducted in the area from 1972 to 1974. To better coordinate the shoreline compilation with the scheduling of hydrographic operations, compilation was divided into two parts. The southern half, consisting of ten manuscripts, TP-00323 through TP-00332, was compiled in the Rockville office in 1972. Field edit was applied and Final Review was performed on these manuscripts by employees of the Rockville office. Reference should be made to "Job Completion Report PH-7012 (Southern Part)" by J. B. Phillips for information concerning these manuscripts.

Compilation of Manuscripts TP-00217, TP-00318 through TP-00322 and TP-00333, comprising the northern portion of the project, was accomplished at the Atlantic Marine Center in March and April of 1973. The Wild B-8 stereoplotter was used. Tandem flights of color infrared and black and white infrared photography flown in April 1972 at 1:30,000 scale were provided. The color infrared photography was used for both compilation and hydro support purposes. They were the only set of photographs sent to the field. The black and white infrared photography was not used during any phase of compilation or field edit.

The stage of tide at the time of photography was one foot above the mean high water plane as determined from the hourly heights supplied by the Tides Branch (see attached). This circumstance may have resulted in a slight displacement of the shoreline in marsh and swamp areas. It is not felt, however, that this would materially affect the overall shoreline delineation. Cloudy water conditions coupled with the high tide level resulted in those features (rocks, wrecks, shoals, etc.) in the river at or below MHW not being visible on the photographs. As a result, many of the features picked up by the hydrographer could not be verified photogrammetrically.

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. This was done in August through September, 1972.

Field edit was accomplished in July 1973, November 1974, and February 1975. It was applied at AMC at various times between November, 1973 and April, 1975.

Final review of TP-00217, TP-00318 through TP-00322, and TP-00333 was done at AMC in January and February, 1977.

The original stabilene base manuscripts, each 1:10,000 scale, were forwarded to the Rockville office for reproduction of registration copies.

NATIONAL OCEAN SURVEY (NOAA)
TIDES, HOURLY HEIGHTS (FEET)

WASHINGTON D C APR 1972 TM 75.00W

DAY OF MONTH

HOUR	12	13	14	15	16	17	18	19	20	21	22
0	4.20	5.16	5.61	6.15	6.87	8.05	7.88	8.11	7.13	4.85	7.18
1	3.98	4.87	5.22	5.62	6.28	7.44	7.39	7.80	7.27	5.80	7.95
2	4.19	4.85	4.96	5.24	5.74	6.88	6.83	7.28	7.06	6.37	8.17
3	5.22	5.55	5.01	5.01	5.33	6.39	6.30	6.73	6.62	6.64	8.00
4	6.41	6.85	6.06	5.30	5.06	6.04	5.89	6.23	6.06	6.60	7.66
5	7.15	7.94	7.43	6.57	5.16	5.75	5.57	5.85	5.59	6.22	7.24
6	7.45	8.33	8.26	7.79	6.25	5.64	5.41	5.56	5.18	5.66	6.79
7	7.41	8.44	8.62	8.44	7.52	6.35	5.72	5.44	4.90	5.11	6.37
8	7.01	8.18	8.59	8.71	8.25	7.36	6.87	5.67	4.76	4.72	6.01
9	6.41	7.53	8.18	8.61	8.57	7.98	7.94	6.50	4.83	4.54	5.72
10	5.76	6.86	7.51	8.15	8.49	8.22	8.48	7.42	5.45	4.76	5.52
11	5.19	6.22	6.78	7.50	8.07	7.95	8.66	7.97	6.38	5.65	5.68
12	4.73	5.76	6.13	6.86	7.46	7.47	8.51	8.16	7.01	6.74	6.50
13	4.45	5.47	5.64	6.30	6.82	6.89	8.06	7.99	7.22	7.38	7.53
14	4.47	5.19	5.25	5.82	6.27	6.35	7.49	7.55	7.24	7.65	8.23
15	5.25	5.18	4.94	5.51	5.90	5.88	6.92	7.01	6.85	7.67	8.56
16	6.53	5.94	4.84	5.21	5.60	5.51	6.46	6.46	6.19	7.43	8.57
17	7.43	7.10	5.61	5.17	5.40	5.25	6.11	6.02	5.64	7.05	8.22
18	7.91	7.85	6.89	5.97	5.74	5.12	5.86	5.67	5.13	6.59	7.66
19	8.01	8.15	7.78	7.20	6.97	5.41	5.70	5.41	4.70	6.17	7.09
20	7.68	8.08	8.12	7.98	8.11	6.43	5.89	5.18	4.28	5.83	6.62
21	7.01	7.58	8.01	8.26	8.55	7.42	6.69	5.18	3.97	5.58	6.25
22	6.29	6.86	7.53	8.09	8.84	7.96	7.63	5.67	3.79	5.62	5.96
23	5.65	6.20	6.83	7.57	8.61	8.07	8.10	6.55	3.95	6.21	5.71

DATUM IS .....

Subtract 4.26' to refer to MLW

8.66
4.26
4.40 above MLW

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. No report was submitted.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-7012
Upper Potomac River, Maryland - Virginia (Part 2)
February, 1973

21. Area Covered
This report covers an area of the Potomac and Anacostia Rivers south from latitude 38°57'00" to 38°40'00" where it joins Part 1 of this project. The job consists of seven (7) 1:10,000 scale sheets (TP-00318 thru TP-00322, TP-00217, and TP-00333).

22. Method
Six (6) strips of photographs (strip 1 and strips 3 thru 6) were bridged using the C-8 Stereoplaingraph and adjusted on the IBM 1620. Strip 2 was bridged on the S.T.K. and adjusted by analytical aerotriangulation methods. All strips were adjusted to field-identified horizontal control stations with the exception of strips 3 and 5, where office-identified control stations were used to supplement the field-identified control. Ties were made between all strips. The sketch shows the location of the strips of photography and the horizontal control stations used in bridging. Common image points were located during bridging between the color infrared photography and the black-and-white infrared photography in order to determine a ratio for the enlargements used in compilation.

Data for the seven (7) 1:10,000 scale compilation sheets were plotted by the Coradomat 21 Plotter on the Maryland and Virginia (north zone) coordinate system.

23. Adequacy of Control
All horizontal control used in the adjustment was field identified except for the following stations:

WOODBRIDGE Relay Mast 1957
BELLEVUE D.C. Fire Dept. Training Center Tank 1970
ALEXANDRIA Washington Masonic Nat. Memorial 1934

These office-identified stations were used only because they provided a better balance of control for the adjustment.

In general, the identification of horizontal control stations (sub points) was poor. Also, the mathematical solutions for the sub points were very poor because of small angles involved in computing azimuths. Horizontal control was adequate.

24. Supplemental Data
USGS quadrangles were used to provide vertical control for the strip adjustments.

25. Photography

The following RC-8 color infrared photography (E camera) was used for bridging and the black-and-white infrared (K camera) was flown in tandem with the E camera:

1:30,000 scale photography

strip 1	72 E(c) 72 K	1624R 7254R	thru	1631R 7262R
strip 2	72 E(c) 72 K	1615R 7245R	thru	1621R 7252R
strip 3	72 E(c) 72 K	1594R 7225R	thru	1601R 7232R
strip 4	72 E(c) 72 K	1644R 7275	thru	1649R 7279R
strip 5	72 E(c) 72 K	1654 7285	thru	1666R 7297R
strip 6	72 E(c) 72 K	1649R 7280R	thru	1655R 7236R

Photography was adequate as to coverage, overlap, and identification.

Submitted by

Donald M. Brant

Approved by:

John D. Perrow, Jr.
Chief, Aerotriangulation Section

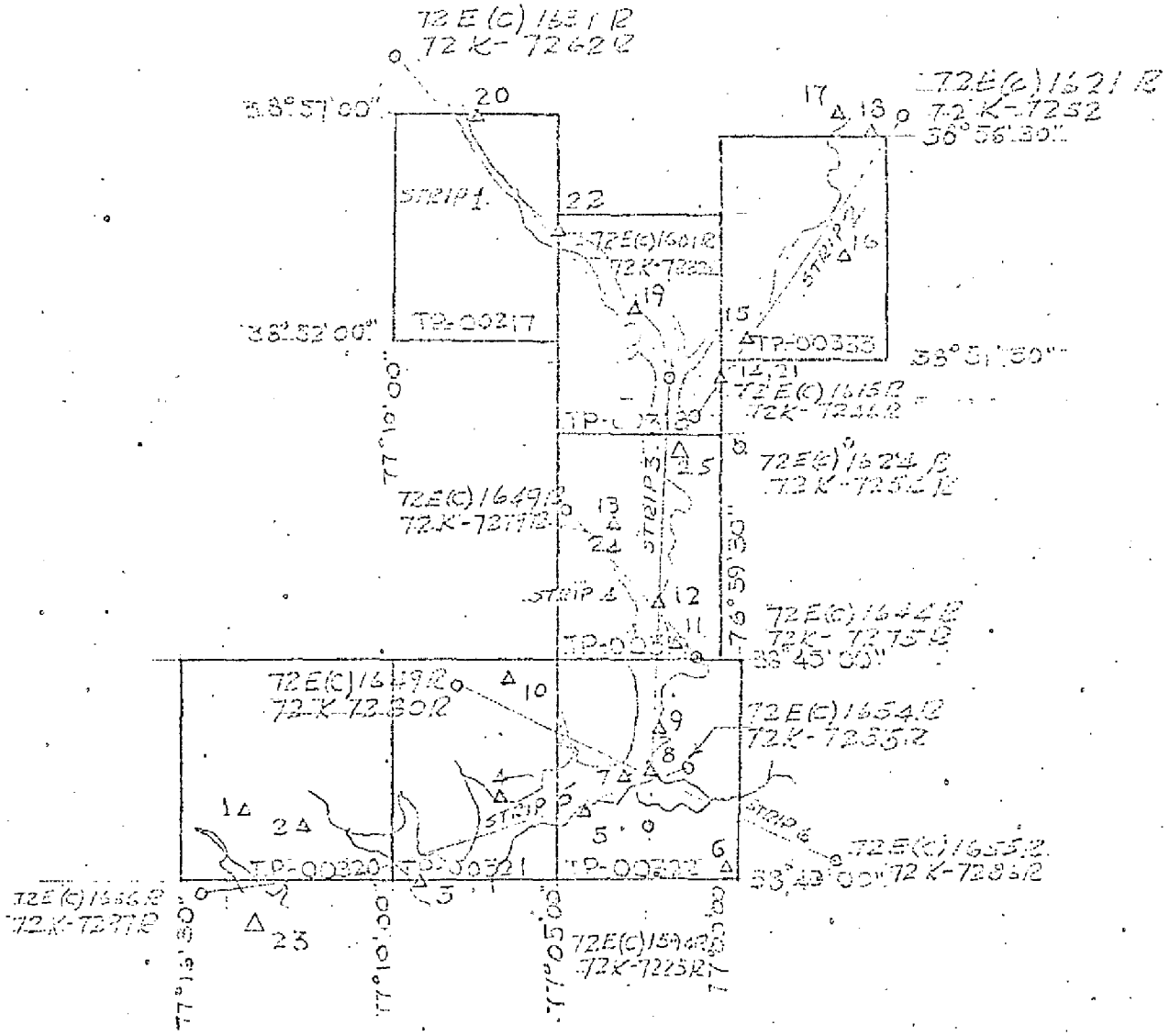
JOB PH-7012 PART 2

UPPER POTOMAC RIVER

MARYLAND - VIRGINIA

SHORELINE MAPPING

SCALE 1:10000



LEGEND

△ HORIZONTAL CONTROL (USED IN BRIDGING)

○ 1:20,000 SCALE COLOR INFRARED (RED GROUND)

○ 1:20,000 SCALE BLACK & WHITE INFRARED

KEY TO CONTROL ON PAGE 2

JOB PH-7012

KEY TO HORIZONTAL CONTROL USED FOR BRIDGING

1. OCCOQUAN PENAL INST. STANDPIPE 1959
2. OX 1959
3. WIG 1934
4. FERRY POINT 1959
5. BRYAN 2 1928
6. BEALLE RM5 1957
7. UPPER POTOMAC RIVER LIGHT 77 1959
8. FORT 1928
9. RIVERVIEW WHARF LIGHT 82 1959
10. GUM SPRINGS RAD. STA. WPIK MAST 1969
11. QUEEN 2 1959
12. UPPER POTOMAC RIVER LIGHT 88 1959
13. TEMPLE 1934
14. ST. ELIZABETH'S INSANE ASYLUM RED STACK 1934
15. SE 154 A 1960
16. NE 146 C
17. HYATTSVILLE RAD. STA. K'GA 361 MAST 1970
18. ROGER HEIGHTS STAND PIPE 1952
19. GATE 2 1970
20. MAP AMS 1952
21. INSANE 1912
22. ST. PATRICKS EPISCOPAL CHURCH BELL TOWER
23. WOODBRIDGE RELAY MAST 1957
24. ALEXANDRIA WASHINGTON MASONIC NAT. MEMORIAL 1932
25. BELLEVUE D.C. Fire Dept. Training Center TANK 1970

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-00318	PH-7012	N.A. 1927	Coastal Mapping Division AMC-Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
INSANE, 1912	GP D.C. Pg. 5A G-2665		x=	φ38 51 16.942	522.4 (1327.8)
			y=	λ77 00 01.221	29.4 (1417.4)
ST. ELIZABETH'S INSANE ASYLUM, RED STACK, 1934	GP D.C. Pg. 8		x=	φ38 51 06.739	207.8 (1642.4)
			y=	λ77 00 01.982	47.8 (1399.0)
ST. ELIZABETH'S INSANE ASYLUM, WHITE STACK, 1934	GP D.C. Pg. 8		x=	φ38 51 07.484	230.8 (1619.4)
			y=	λ77 00 00.619	14.9 (1431.9)
WAR COLLEGE FLAG-STAFF, 1913	GP D.C. Pg. 50		x=	φ38 51 47.344	1459.9 (390.3)
			y=	λ77 01 02.330	56.2 (1390.4)
BUZZARD PT., POTOMAC ELEC. POWER CO. STACK (Center of 3)(D.C.) 1946	GP D.C. VA Pg. 757 G-7079		x=	φ38 51 54.951	1694.5 (155.7)
			y=	λ77 00 43.279	1043.4 (403.1)
NATIONAL AIRPORT, CON-TROL TOWER, AERO BEACON 1945	GP D.C. Pg. 127 GTZ-G6480		x=	φ38 50 58.130	1792.5 (59.7)
			y=	λ77 02 28.648	690.8 (756.1)
NATIONAL AIRPORT, NORTH RADIO AERIAL POLE, 1945	GP D.C. Pg. 127 GTZ-G6480		x=	φ38 50 58.676	1809.3 (40.9)
			y=	λ77 02 29.193	704.0 (742.9)
D.C.-VA BOUNDARY WIT-NESS MARK NO. 7, 1946 (VA)	GP VA Pg. 754 G-7079		x=	φ38 52 48.659	1500.4 (349.8)
			y=	λ77 03 26.556	640.1 (806.2)
D.C.-VA BOUNDARY WIT-NESS MARK NO. 8, 1946 (VA)	GP VA Pg. 754 G-7079		x=	φ38 52 31.346	966.6 (883.6)
			y=	λ77 02 46.100	1111.3 (335.0)
D.C.-VA BOUNDARY WIT-NESS MARK NO. 9, 1946 (VA)	GP D.C. Pg. 130 G-7079		x=	φ38 51 52.319	1613.3 (236.9)
			y=	λ77 02 25.583	616.6 (829.9)

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
L.O. Neterer, Jr.	2/16/73	A.C. Rauck, Jr./C.E. Blood	2/16/73 2/22/73
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

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-00318	PH-7012	N.A. 1927	Coastal Mapping Division AMC-Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Virginia ZONE North	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
D.C.-VA BOUNDARY WITNESS MARK NO. 10, 1946 (VA)	GP D.C. Pg. 130 G-7079		x=	φ 38 51 38.076	1174.1 (676.1)
			y=	λ 77 02 14.732	355.1 (1091.5)
D.C.-VA BOUNDARY WITNESS MARK NO. 11, 1946 (VA)	GP D.C. Pg. 130 G-7079		x=	φ 38 50 31.635	975.5 (874.7)
			y=	λ 77 02 05.515	133.0 (1314.0)
D.C.-VA BOUNDARY WITNESS MARK 11A, 1946 (VA)	GP D.C. Pg. 130 G-7079		x=	φ 38 50 28.882	890.6 (959.6)
			y=	λ 77 02 50.631	1221.1 (225.9)
N.W. 110, 1960	Quad 380771 STA 1160		x=	φ 38 54 20.9428	645.8 (1204.4)
			y=	λ 77 04 47.5413	1145.5 (300.2)
PRESIDENTS, 1935	Brige Form 164 Pg. 10 of 11		x= 444,273.9	φ	4,273.9 (726.1)
			y= 2,413,082.6	λ	3,082.6 (1,917.4)
MARRIOTT MOTEL, 1960	Quad 380771 STA 1252		x=	φ 38 52 18.3056	564.5 (1285.7)
			y=	λ 77 02 33.4860	807.2 (639.2)
GATE 2, 1970	Bridge Form 164 Pg. 3 of 11		x=	φ 38 52 47.992	1479.9 (370.3)
			y=	λ 77 02 25.982	626.3 (820.0)
HALF, 1934	Bridge Form 164 Pg. 10 of 11		x= 440,304.9	φ	304.9 (4,695.1)
			y= 2,420,707.3	λ	707.3 (4,292.7)
CAPITOL, STATUE OF LIBERTY HEAD, 1869	Bridge Form 164 Pg. 7 of 11		x= 448,829.5	φ	3,829.5 (1,170.5)
			y= 2,424,281.3	λ	4,281.3 (718.7)
ST. DOMINIC CHURCH SPIRE, 1913	Bridge Form 164 Pg. 10 of 11		x= 446,314.3	φ	1,314.3 (3,685.7)
			y= 2,421,161.4	λ	1,161.4 (3,838.6)

COMPUTED BY A.C. Rauck, Jr.	DATE 2/20/73	COMPUTATION CHECKED BY C.E.Blood	DATE 2/21/73
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

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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-00318	PH-7012	N.A. 1927	Coastal Mapping Division AMC-Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
WASHINGTON MONUMENT (D.C.), 1934	GP D.C. Pg. 54 G-2665		x=	φ 38 53 21.681	668.6 (1181.6
			y=	λ 77 02 07.955	191.7 (1254.2
ARLINGTON CEMETERY LEE MANSION FLAGPOLE, 1946	GP D.C.-VA Pg. 131 G-7079		x=	φ 38 52 51.807	1597.5 (252.7
			y=	λ 77 04 21.243	512.0 (934.2
GEORGETOWN UNIVERSITY LOWER OF TWO SPIRES, 1935	Bridge Form 164 Pg. 1 of 11		x=	φ 38 54 24.339	750.5 (1099.7
			y=	λ 77 04 23.159	558.0 (887.7
ARLINGTON, ARMY NAVY COUNTRY CLUB W.T., 1957	Bridge Form 164 Pg. 11 of 11		x=	φ 38 51 29.107	897.5 (952.7
			y=	λ 77 04 45.040	1086.0 (360.7
MEMORIAL, 1946	GP D.C.-VA Pg. 754 G-7079		x=	φ 38 53 08.373	258.2 (1592.0
			y=	λ 77 03 33.755	813.6 (632.6
POTOMAC PARK NORTHWEST BASE (DC), 1913	GP D.C.-VA Pg. 5A G-2665		x=	φ 38 52 40.507	1249.1 (601.1
			y=	λ 77 02 03.207	77.3 (1369.0
BUZZARD PT., PLANT POTOMAC ELEC. POWER CO. COMPANY STACK, 1934	GP D.C. Pg. 8		x=	φ 38 51 53.871	1661.2 (189.0
			y=	λ 77 00 43.280	1043.5 (403.1
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY Richard R. White	DATE 4/18/73	COMPUTATION CHECKED BY C.E. Blood	DATE 2/22/73
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

9c

COMPILATION REPORT

TP-00318

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color infrared photography.

32. CONTROL

See Photogrammetric Plot Report, dated: February, 1973.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of Form 76-40 were forwarded to the field editor for confirmation, deletion and additions.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-36b, Item 5, of this Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey quadrangles: ALEXANDER, DC-MD - VA, and WASHINGTON WEST, DC-MD - VA, each 1:24,000 scale, dated 1965, revised 1971.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey charts: 101 SC, Edition 15, dated December 30, 1972 and 560, Edition 32, dated February 26, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:
Richard R. White
Richard R. White
Cartographic Technician
April, 1973

Approved:
Albert C. Rauck Jr.
A.C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00318

Anacostia River
Bolling Air Force Base
Boundary Channel
Buzzard Point
C & O Canal
Columbia Island
District of Columbia
Easby Point
East Potomac Park
Fort McNair
Georgetown Channel
Giesboro Point
Gravelly Point
Greenleaf Point
Hains Point
Hunter Point
Little River
Potomac River
Roaches Run
Rosslyn
Three Sisters Islands
Theodore Roosevelt Island
Tidal Basin
Virginia
Washington Channel
Washington National Airport
Waterfowl Sanctuary
Water Gate
West Potomac Park

Approved by:
Chas. E. Harrington
Staff Geographer-C51x2
Chas. E. Harrington

NOAA FORM 75-74
(7-75)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

TP -00318

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
A.L.S.	A.L.S.	A.L.S.	A.L.S.

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (*Topographic stations*)	7. PHOTO HYDRO STATIONS
A.L.S.	XX	XX

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	XX	A.L.S.	A.L.S.

ALONGSHORE AREAS (*Nautical Chart Data*)

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
A.L.S.	XX	XX	A.L.S.

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
A.L.S.	A.L.S.	XX	A.L.S.

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
A.L.S.	N.A.	N.A.

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
N.A.	N.A.	N.A.	XX

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
A.L.S.	A.L.S.	A.L.S.	A.L.S.

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
N.A.	N.A.

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
A.L.S.	A.L.S.	A.L.S.

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
A.L.S.	A.L.S.	XX	A.L.S.

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Arnold L. Shands Arnold L. Shands	Albert C. Rauck Jr. A. C. Rauck, Jr.

41. REMARKS (*See attached sheet*)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

COMPILER			SUPERVISOR
	Willie Gilbert	Oct. 1973	Albert C. Rauck Jr. A. C. Rauck, Jr.
	G. R. Vanderhaven	Feb. 1975	
Reviewer:	A. L. Shands	Mar. 1975	

43. REMARKS

NOAA FORM 75-74 (7-75)

FIELD EDIT REPORT

TP-00318

Upper Potomac River, Md.-Va.

PH 7012

July 1973

51. METHODS

All field edit work was done in accordance with project instructions: OPR-409-742-73, Anacostia River, District of Columbia, dated Jan. 10,1973; Anacostia River Change No. 2, dated Jan. 30, 1973; and Potomac and Anacostia Rivers Change No. 2 dated Feb. 15, 1973.

An inspection was made of all mean high water line and alongshore features. Any additions or corrections are indexed on the Field Edit Ozalid in violet and deletions are noted in green.

52. ADEQUACY OF COMPILATION

Compilation was adequate in shoreline delineation and alongshore features except as noted on the Field Edit Ozalid.

54. RECOMMENDATIONS

The remaining area covered by this sheet was not field edited even though the completed sheet was sent from compilation. Lack of sufficient time to field edit the area and the fact that hydrography was not performed in the other portion of the sheet were the reasons for field editing only the areas covered by this incompleted sheet. It is recommended that this field edit data be applied in conjunction with the rest of the data covering sheet TP-00318 which should be obtained next season.

56. GEOGRAPHIC NAMES

No formal geographic names investigation was performed by this party but it is evident that the "ANACOSTIA RIVER" be spelled as such and not "ANACOSTA RIVER".

57. LANDMARKS AND AIDS TO NAVIGATION

One aid to navigation is recommended for charting. It is the aero beacon located on the National Airport Control Tower. The 4 range markers previously charted should be deleted, as they no longer exist.

Seven (7) landmarks are recommended for this compiled por-

tion of sheet TP-00318. Five of these are smokestacks and are as listed on form 76-40. Of the remaining two, one is a VORTAC Station and one is a red and white building, both located at the National Airport on the west side of the Potomac River.

58. MISCELLANEOUS

All times mentioned on the field edit ozalid refer to Greenwich Mean Time.

Respectfully Submitted,

James W. Davis

James W. Davis
LTJG. NOAA
Chief, Photo Party 61

FIELD EDIT REPORT

TP-00318

Upper Potomac River
Maryland- Virginia

51. METHODS

All work was done in accordance with Provisional Photogrammetry Instructions-Field Edit Surveys, current photo instructions, and project instructions.

An inspection of all shoreline and alongshore features was made, and all deletions, additions, and corrections are either shown or referred to on the field edit paper ozalid. All field edit notes are in purple ink for additions and corrections are in green ink for deletions.

Because of the limited visibility into the water and lack of wire drag equipment, any negative findings noted in the field edit data should not be considered conclusive, unless otherwise stated. The latest hydrographic survey of the area should be consulted for more complete information.

Most of the field edit inspection was accomplished by boat. Features were located by either sextant fixes or photo identification.

52. ADEQUACY OF COMPILATION

Compilation was adequate in shoreline delineation and alongshore features except as noted on the field edit ozalid.

54. RECOMMENDATIONS

None

56. GEOGRAPHIC NAMES

No discrepencies were found while editing this sheet.

57. LANDMARKS AND AIDS TO NAVIGATION

Three landmarks are recommended deleted while four landmarks are recommended charted.

Respectfully submitted,

George W. Jamerson

George W. Jamerson, Lt. NOAA
Chief, Photo Party 61

orig. to charts
7/11/75

NOAA FORM 76-40
(8-74)
Replaces C&GS Form 567.

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

NONFLOATING AIDS [redacted] FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

[X] TO BE CHARTED [ ] TO BE REVISED [ ] TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	Coastal Mapping Div. AMC-Norfolk, Va.	Washington, D.C. Virginia	Potomac River	Feb. 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	Ph-7012	TP-00318	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
AERO	(National Airport, Control Tower, Aero Beacon, 1945) ok	38-50	58.130 1792.5	77-02	28.648 690.8	72E(C)1615(I) ~~Apr. 8, 1972~~	Triang. Rec. Aug. 6, 1973	101SC 560
MARKER	Front Object Nautical Mile Marker ok	38-52	22.96 708	77-01	57.04 1375		F-4-8-L Feb. 3, 1975	" "
MARKER	Rear Object Nautical Mile Marker ok	38-52	23.12 713	77-01	56.54 1363		* F-4-7-L Feb. 3, 1975	" "
MARKER	Front Object Nautical Mile Marker ok	38-51	30.45 939	77-01	25.13 606		F-4-8-L Feb. 3, 1975	" "
MARKER	Rear Object Nautical Mile Marker ok	38-51	30.61 944	77-01	24.59 593		* F-4-7-L Feb. 3, 1975	" "
							* Probably F-4-8-L Horiz. angles cannot be turned with plane-table. A.L. Shands	(See 76-40 + computations by field editor)
							Final Reviewer 12-9-76	

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OIA-64

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

~~NONFXXXXXXXXXXX~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [ ] COMPILATION ACTIVITY
- [x] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [ ] TO BE REVISED
- [x] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC, Norfolk, VA	District of Columbia	Potomac River	Dec. 1976

The following objects HAVE [ ] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	PH-7012	TP-00318	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
SPIRE	(Georgetown University Lower of 2 Spires, 1935) Taller Spire more prominent. This station included on Form 76-40 forwarded to Charts on 7/11/75 by mistake. A.L. Shands Final Reviewer	38 54.4		77 04.4				

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RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	A. L. Shands	☒ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.

EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.

EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.

EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.

EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

orig. to charts
7/11/75

NOAA FORM 76-40
(8-74)
Replaces C&GS Form 567.

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

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

TO BE CHARTED / TO BE REVISED / TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
[X] TO BE DELETED	Coastal Mapping Div. AMC-Norfolk, Va.	Washington, D.C. Virginia	Potomac River	Feb. 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	Ph-7012	TP-00318	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
*STACK	ht.=124(139) ft.	38-52	115.8	77-00	1284.0		Not needed Nov.1974	101SC 560
CUPOLA		38-52.8		77-01.4			Not needed Nov.1974	101SC 560
TOWER		38-54.3		77-04.2			Not needed Nov.1974	101SC 560
	*Object need not have been included on this form. It has never been charted. A.L. Shands - Final Reviewer - 12/14/76							

14c

ACR-CA

orig. to charts
7/11/75

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

[X] TO BE CHARTED [ ] TO BE REVISED [ ] TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	Coastal Mapping Div. AMC-Norfolk, Va.	Washington, D.C. Virginia	Potomac River	Feb. 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	Ph-7012	TP-00318	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
STRUCTURE	(Vortac DCA,1965) ht.=13(23) ft.	add 38-51	33.607 1036.3	77-02	12.243 295.2		Triang. Rec. Aug.6,1973	101SC 560
STACK	Fort McNair (brick) Stack,ht.=140(153) ft.	ok 38-52	18.00 555.0	77-01	05.39 130.0	72E(C)1628(I) Apr.18,1972	V-Vis. Aug.8,1973 72E(C)1616(I)	101SC 560
STACKS 3	(Buzzard Point,Potomac Electric Power Co.,Stack,(center of three)DC,1946) ~~ht.=180(193) ft.~~	revise 38-51	54.951 1694.5	77-00	43.279 1043.4	72E(C)1626(I) ~~Apr.18,1972~~	Triang. Rec. Aug.6,1973	101SC 560
STACK	(St. Elizabeths Insane Asylum Red Stack,1934) ht.=208(338) ft.	ok 38-51	06.74 207.8	77-00	01.98 47.8	72E(C)1616(I) ~~Apr.18,1972~~	Triang. Rec. Aug.6,1973	101SC 560
STACK	(St. Elizabeths Insane Asylum ~~White~~ Stack,1934) ht.=213(243) ft.	ok 38-51	07.48 230.8	77-00	00.62 14.9	72E(C)1616(I) ~~Apr.18,1972~~	Triang. Rec. Aug.6,1973	101SC 560
STACK	Georgetown Power Plant Stack,ht.=163(210) ft.	ok 38-54	09.97 307.3	77-03	43.30 1043.3	72E(C)1628(I) Apr. 18,1972 A.L.S. Final Review 12-9-76	V-Vis. Nov.1,1974	101SC 560
BLDG	ht.=13(23) ft.	add 38-50	54.44 1678.6	77-02	5.29 128.5		V-Vis. Aug.8,1973 72E(C)1616(I)	101SC 560
SPIRE	(Georgetown University,Lower of 2 Spires,1935) ht.=177(322) ft.	omit see next page 38-54	24.339 750.5	77-04	23.159 558.0	72E(C)1628(I) ~~Apr. 18,1972~~ A.L.S. Final Review 12-9-76	Triang. Rec. Nov.1,1974	101SC 560
MONUMENT	(Washington Monument,1934) ht.=555(585) ft.	ok 38-53	21.681 668.6	77-02	07.955 191.7	72E(C)1627(I) ~~Apr. 18,1972~~ A.L.S. Final Review 12-9-76	Triang. Rec. Nov.1,1974	101SC 560
SPIRE	(St. Dominic Church Spire,1913) ht.=188(218)	ok 38-52	58.549 1805.4	77-01	13.672 329.5	72E(C)1626(I) ~~Apr. 18,1972~~ A.L.S. Final Review 12-9-76	Triang. Rec. Nov.1,1974	101SC 560

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ACR - G.V.

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [ ] COMPILATION ACTIVITY
- [x] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [x] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC, Norfolk, VA	District of Columbia	Potomac River	Dec. 1976

The following objects HAVE [ ] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	PH-7012	TP-00318	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TALLER SPIRE	Taller of two Spires revise	38 54	25.75 794	77 04	22.95 553	72E(CI)1628 4/18/72	V-Vis 11/1/74	12285
	*This Spire was not included on the original Form 76-40 submitted to Charts on 7/11/75. The lower of the two was. This reviewer has had a conversation with LT. G.W. Jamerson, the field editor who reveals that the taller Spire does exist and it was his intention to have it charted and not the lower one.							
	A.L. Shands, Final Reviewer 12/15/76							

14e

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.

EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.

EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.

EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.

EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

REVIEW REPORT TP-00318

SHORELINE

December 21, 1976

61. GENERAL STATEMENT:

This manuscript was compiled in two stages. In order to coordinate ship schedules with bridging, the southern portion from approximate Latitude 38° 52.5' southward was compiled in March, 1973. Copies of this partially compiled manuscript was forwarded to both the field editor and hydrographer. Field edit was preformed and returned. Compilation was completed in April, 1973 and again copies were forwarded to the field editor and hydrographer. The area edited in 1973 by LTjg. James W. Davis was re-edited in 1974-75 by LTjg. G.W. Jamerson, The resulting conflicts and their solutions follows:

1. Stack at Lat. 38° 52.1, Long. 77° 00.9 recommended for charting in 1973 as a landmark was recommended for deletion in 1974. This Stack was included on Form 76-40 for deletions forwarded to Marine Charts on July 11, 1975. However, there is no evidence that this Stack had ever been charted. It is shown on the manuscript as a map feature only.

2. Field photographs 72 E(CI)1615 and 1616 containing 1973 field edit information was re-submitted to the field in 1974. They were not returned to the compilation office and were not available during final review..

3. The course markers at East Potomac Park were reported non-existent in 1973 but were located in 1975. They are positioned on the manuscript.

See Summary which is pages 6a and 6b of this Descriptive Report.

A comparison print showing the differences noted in paragraphs 62, 63, 64 and 65 is submitted with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with copies of Planimetric Maps T-8601, T-8602, T-8603 and T-8604 each 1:4,800 scale, dated 1948 and Topographic Map T-5756, 1:10,000 scale dated 1940. Significant differences are shown in blue pencil on the comparison print.

For nautical chart construction purposes TP-00318 supersedes the above mentioned maps in the areas compared. T-8601, T-8602, T-8603, T-8604 and T-5756 are the latest registered surveys of the area.

No comparison was made in the area of the Anacostia River westward to the west shore of East Potomac Park. No prior registered surveys of this area exist.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Alexandria, VA-DC-MD and Washington West, DC-MD-VA both 1:24,000 scale, dated 1965, photorevised 1971. Significant differences are shown in brown pencil on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparisons were made with Boat Sheets, H-9477 (AHP-5-5-74), H-9478 (AHP-5-6-74) and H-9488 (AHP-5-7-74) and a copy of final Smooth Sheet H-9380 (742-10-3-73). No significant differences were noted in the shoreline. The position of signal #120 (located at Bolling A.F.B. Marina) used on Boat Sheet H-9477 and described as a green light on a triangular structure is shown on the comparison print in purple pencil. The implication being that this is a fixed navigational aid. There is not evidence on the Charts nor in the 1976 Light List that such an aid exist. Its image does not appear on the photographs.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 12289, 1:20,000 and 1:40,000 scale, 36th edition dated March 6, 1976. Significant differences are shown on the comparison print in red pencil.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

The existance of the two logs just south of the mouth of Roaches Run mentioned on the field edit ozalid require further field verification. The hydrographer made no mention of these on the boat sheets. Their existance is considered temporary by this reviewer.

Submitted by:

A.L. Shands

A.L. Shands
Cartographer

Approved for forwarding:

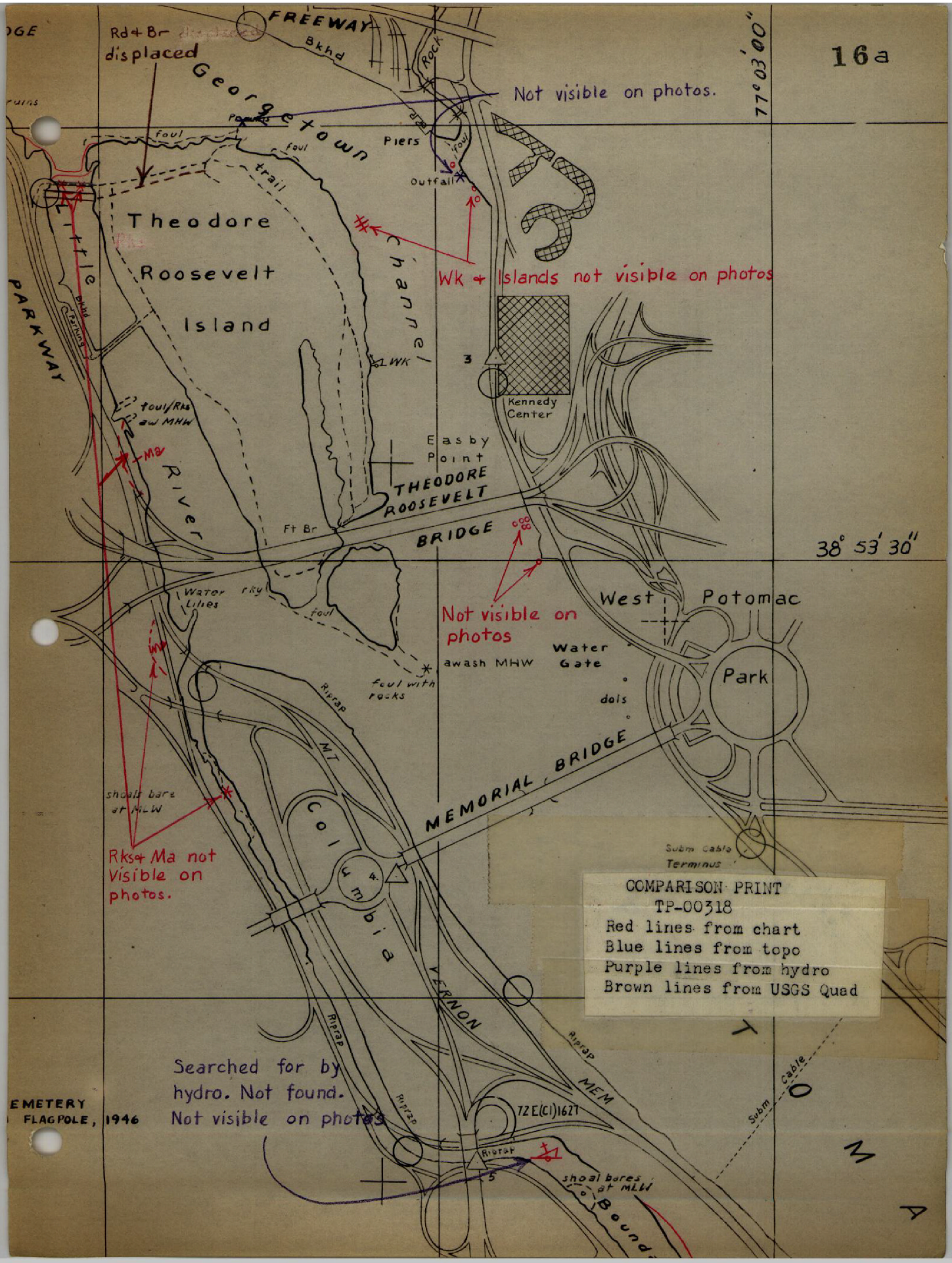
Joseph W. Vonasek

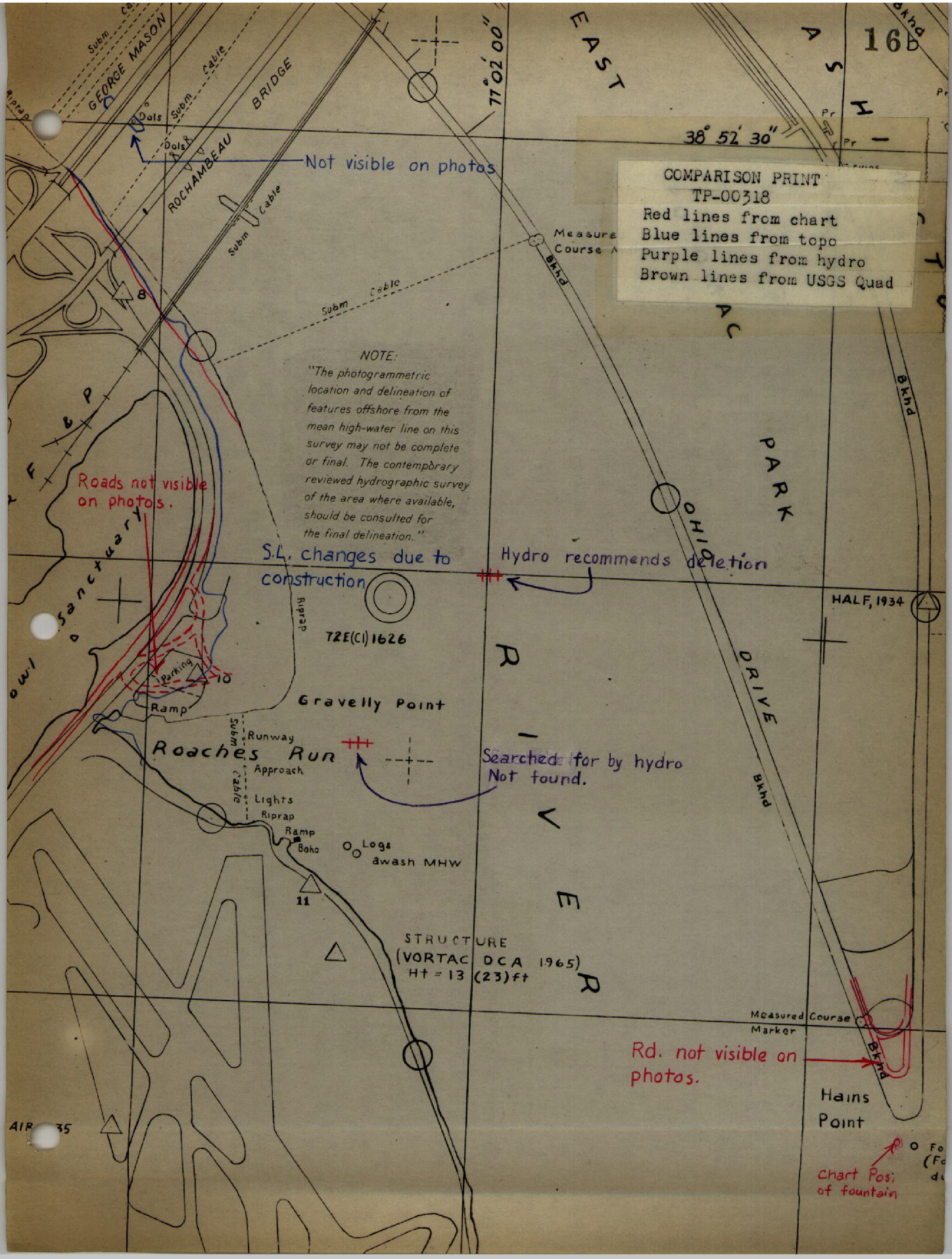
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

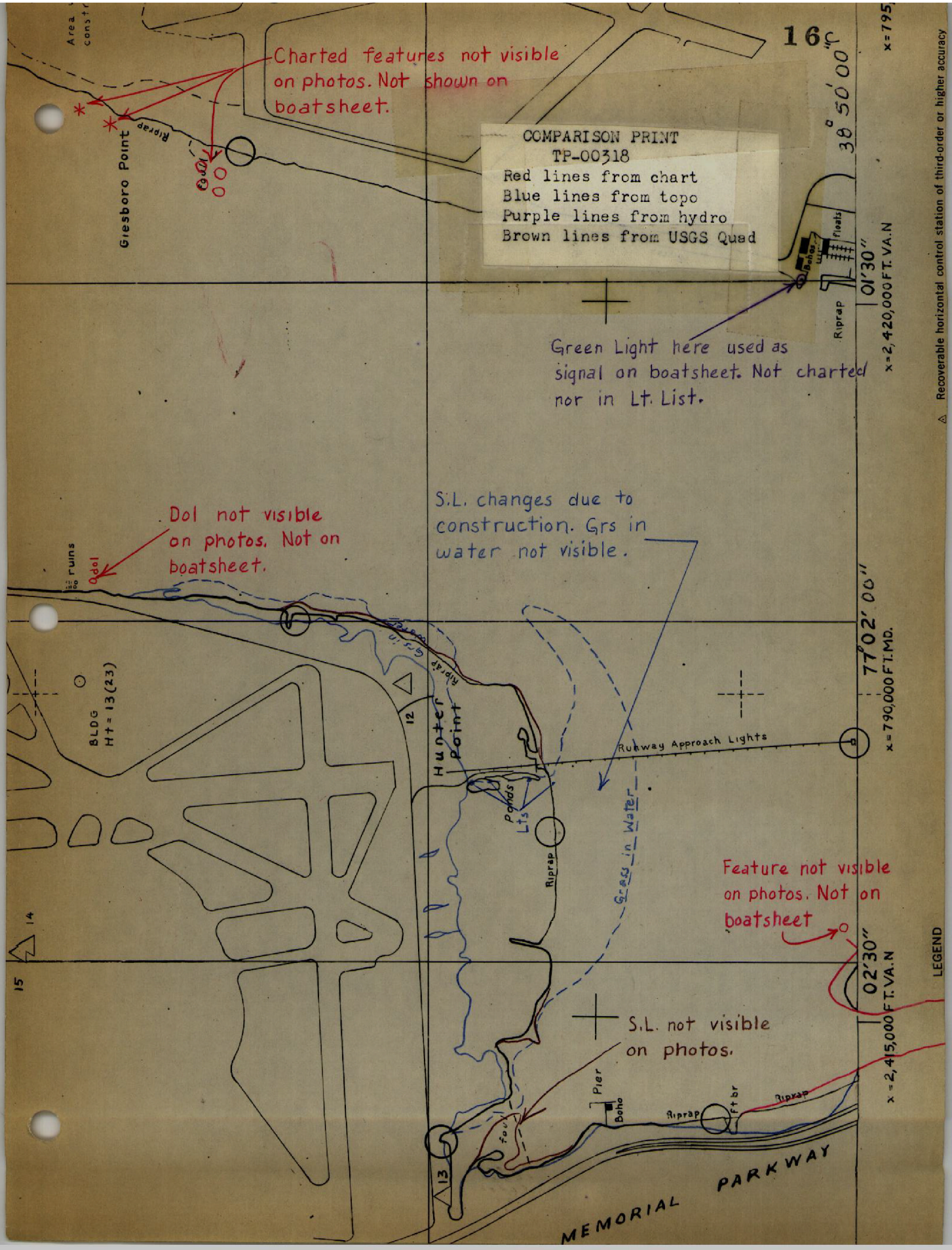
Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.


16a
Rd+Br displaced
FREEWAY
Bkhd
Rock
Not visible on photos.
77°03'00"
Georgetown
Piers
foul
trail
Outfall
Theodore
Roosevelt
Island
Channel
Wk + Islands not visible on photos
Little
River
PARKWAY
Kennedy
Center
Easby
Point
THEODORE
ROOSEVELT
BRIDGE
Ft Br
38° 53' 30"
Water
Lilies
rky
Not visible on
photos
West
Potomac
Park
Water
Gate
awash MHW
foul with
rocks
dols
Riprap
MT
MEMORIAL BRIDGE
shoal bare
at MLW
Rks+Ma not
visible on
photos.
Columbia
VERNON
Subm Cable
Terminus
COMPARISON PRINT
TP-00318
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad
Searched for by
hydro. Not found.
Not visible on photos
MEM
72E(C1)1627
shoal bares
at MLW
Subm Cable
EMETERY
FLAGPOLE, 1946



COMPARISON PRINT
TP-00318
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad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COMPARISON PRINT
TP-00318
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad
Charted features not visible on photos. Not shown on boatsheet.
Giesboro Point
Riprap
Green Light here used as signal on boatsheet. Not charted nor in Lt. List.
Floats
Boho
Riprap
38°50'00"
01'30"
x=2,420,000 FT. VA. N
x=795
Dol not visible on photos. Not on boatsheet.
ruins
Dol
S.L. changes due to construction. Grs in water not visible.
Grs in water
Riprap
BLDG
Ht = 13(23)
12
Hunter Point
Runway Approach Lights
Ponds
Lts
Riprap
Grass in Water
77°02'00"
x=790,000 FT. MD.
Feature not visible on photos. Not on boatsheet
14
15
02'30"
x=2,415,000 FT. VA. N
S.L. not visible on photos.
Pier
Boho
Riprap
Ft br
Riprap
fou
13
MEMORIAL PARKWAY
LEGEND
Recoverable horizontal control station of third-order or higher accuracy

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP 00318

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.

CHART	DATE	CARTOGRAPHER	A REMARKS
12285	9-77	Dick Killen	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 20
			A
12289	2-1-79	Bill Wanless	Full ~~Part Before~~ After Verification Review Inspection Signed Via
(560)			Drawing No. 43
			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.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.