

TP 01127

TP-01127

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
THIS MAP EDITION WILL NOT BE FIELD EDITED	
Map No. TP-01127	Edition No. 1
Job No. CM-8104	
Map Classification CLASS III FINAL	
Type of Survey SHORELINE	
LOCALITY	
State NEW YORK	
General Locality NIAGARA RIVER	
Locality GRAND ISLAND	
1980 TO 19	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. 01127	
DESCRIPTIVE REPORT - DATA RECORD				☒ ORIGINAL		MAP EDITION NO. (1)	
				☐ RESURVEY		MAP CLASS III FINAL	
				☐ REVISED		JOB PH -CM-8104	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE Max Ethridge				TYPE OF SURVEY		JOB PH- _____	
				☒ ORIGINAL		MAP CLASS _____	
				☐ RESURVEY		SURVEY DATES:	
				☐ REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation August 12, 1981 Compilation January 15, 1982 Letter (Registration) May 13, 1982				Photo I.D. Control August 25, 1981			
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) International Great Lakes Datum (1955)			
3. MAP PROJECTION Transverse Mercator				4. GRID(S)			
				STATE New York		ZONE West	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				B. Thornton		Sept. 1981	
METHOD: Analytic LANDMARKS AND AIDS BY				B. Thornton		Sept. 1981	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				B. Thornton		Sept. 1981	
METHOD: Analytic CHECKED BY				D. Norman		Sept. 1981	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				W. Connally		March 1982	
COMPILATION CHECKED BY				R. Kravitz/F. Mauldin		March 1982	
INSTRUMENT: Wild B-8				NA			
SCALE: 1:20,000				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				R. Kravitz		April 1982	
CHECKED BY				F. Mauldin		May 1982	
METHOD: Smooth drafted				NA			
SCALE: 1:20,000				NA			
HYDRO SUPPORT DATA BY				R. Kravitz		April 1982	
CHECKED BY				F. Mauldin		May 1982	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				F. Mauldin		May 1982	
6. APPLICATION OF FIELD EDIT DATA BY				None			
CHECKED BY				None			
7. COMPILATION SECTION REVIEW Class III BY				F. Mauldin		May 1982	
8. FINAL REVIEW Class III BY				L. O. Neterer, Jr.		May 1982	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				L. O. Neterer, Jr.		July 1982	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				R. B. Kelly		Mar. 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. S. Thompson		May 1984	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-001127
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R. C.-8 (E)		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern	☒ STANDARD
				MERIDIAN 75th	☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
80 E(C) 6389-6393	Sept. 27, 1980	08:50	1:30,000	*NA	
80 E(C) 6407-6412	Sept. 27, 1980	09:15	1:30,000		
80 E(C) 6421-6426	Sept. 27, 1980	09:32	1:30,000		
80 E(C) 6437-6442	Sept. 27, 1980	09:44	1:30,000		
80 E(C) 6444-6449	Sept. 27, 1980	09:52	1:30,000		
focal length = 152.71 mm					

* REMARKS The Shoreline Datum is the sloping river surface at the time of photography. Based on the International Great Lakes Datum (1955) the river level at the Niagara Intake gage New York was +561.63 feet. Plane of reference for elevations is 561.63 feet

2. SOURCE OF MEAN HIGH-WATER LINE:

Mean High-Water Line is not applicable. The shoreline was delineated from the above listed photography where the water interfaces with the land.

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

Not applicable

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	No Survey	*TP-00455	TP-001126

REMARKS

*This map is from project CM-7610, at 1:15,000 scale.

TP-001127

HISTORY OF FIELD OPERATIONS

- 1.
- ☒
- FIELD INSPECTION OPERATION (Premarking)
- ☐
- FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. E. Dunford	Sept. 1981
2. HORIZONTAL CONTROL	RECOVERED BY C. Middleton	Sept. 1981
	ESTABLISHED BY C. Middleton	Sept. 1981
	PRE-MARKED OR IDENTIFIED BY C. Middleton	Sept. 1981
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
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 ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Photo-identified

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
80 E(C)6390	Edgewater 2, 1981		
80 E(C)6441	Tauriello, 1972		

3. PHOTO NUMBERS (Clarification of details)

80 E(C) 6390, 80 E(C) 6441

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-Niagara River Field Photo I.D. Control folder

1-Grand Island-Buffalo- Descriptions Terminal Print-OUTS TSN149-20002 (office copy) folder

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-001127
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	May 1982	Class III Manuscript Superseded		
Final Review, Class III	May 1982	Final Class III map No field edit performed	Sept 20, 83	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
7	# 861	Sept 20, 83	landmarks
6	"	" "	aids to navigation

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 582-2 SUBMITTED BY FIELD PARTIES. 76-40
 3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

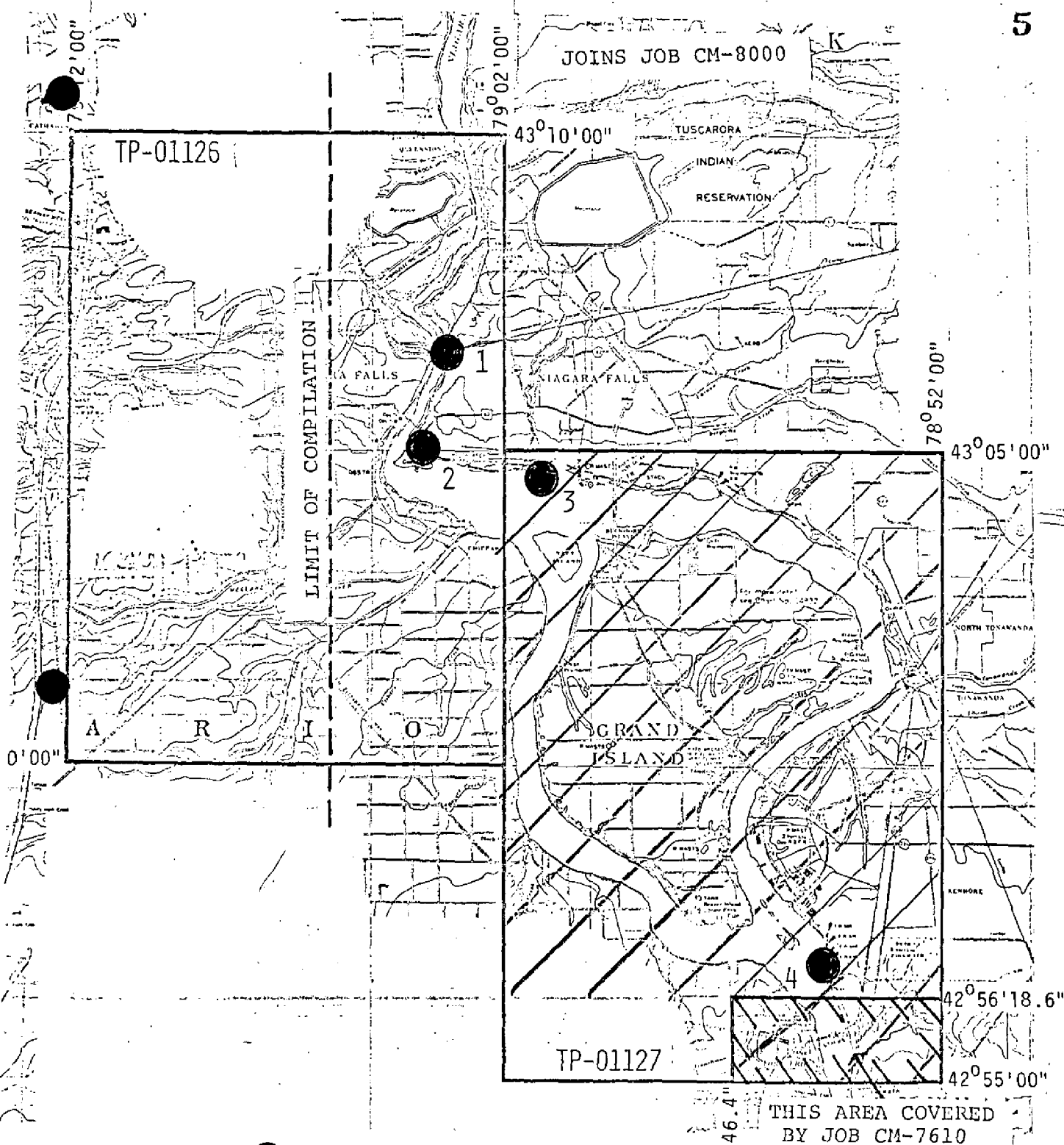
*Bridging photographs will be submitted upon completion of hydrographic processing of all photogrammetric detail.

- 4.
- ☐
- DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED:
- MARCH 1984

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	

JOINS JOB CM-8000

THIS AREA COVERED
BY JOB CM-7610WATER LEVEL GAGE SITES

CM - 8104

NIAGARA RIVER
 ERIE TO BUFFALO
 NEW YORK
 SHORELINE MAPPING
 SCALE 1:20,000

1. Ashland Ave., Niagara Falls, N.Y.
2. American Falls " " "
3. Niagara Intake " " "
4. Ontario Street, Buffalo, N.Y.

REV. 11-3-81

D.B.

Rev 5/17/81

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01127

This 1:20,000 scale shoreline map is one of two maps of project CM-8104 Niagara, Lewiston to Buffalo, New York.

This project encompasses the Niagara River from Buffalo latitude 42°55'00" north to Lewiston latitude 43°10'00".

Correspondence from the Chief, Photogrammetric Branch dated May 13, 1982, called for the two maps to be registered as Class III maps.

Field work prior to compilation which was accomplished in September 1981 involved the identification of horizontal control by photo identification methods to meet aerotriangulation requirements.

Photographic coverage was provided in September 1980 for aerotriangulation using color film with the "E" camera at 1:30,000 scale. The same photography was used for compilation.

Analytic aerotriangulation was performed at the Washington Science Center in September 1981.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1980 color photography in April 1982.

Final review was performed at the Atlantic Marine Center May 1982. This map is to be registered as a Final Class III map.

This descriptive report comprises all information pertinent to the construction of this map.

The original base manuscript and all relevant data were forwarded to the Washington Science Center for final registration.

PROJECT REPORT

7

CM-8104, NIAGARA RIVER
LEWISTON TO BUFFALO, NY

The Project was completed according to the instructions by OA/C3 - Roger F. Lanier, dated 8/25/81.

Three Horizontal Control Stations were photoidentified in the areas indicated on the control requirement diagram. Two substitute stations for Station No. 1, WURLITZER 1972, were positioned by 3rd order traverse. Three substitute stations were positioned by 3rd order traverse for Station No. 2, EDGEWATER 2 1981. This station was established by 3rd order traverse and will be submitted to the NGS Control Network. Two substitute stations were positioned by 3rd order traverse for Station No. 3, TAURIELLO 1972.

Field work (including driving time to and from Norfolk) was accomplished during the period Sept. 18 through Sept. 27, 1981.

All records and data sent to OA/CAM513.

James E. Dunford
James E. Dunford

Photogrammetric Plot Report

Niagara River, New York

CM-8104

September 1981

21. Area Covered

The area covered by this project is Niagara River from Lewiston to Buffalo, New York. The project area is covered by two 1:20,000 scale sheets; TP-001126 and TP-001127.

22. Method

Six strips of 1:30,000 scale photography were bridged by analytic aerotriangulation methods. Horizontal control consisted primarily of office identified intersected stations. Several field identified stations were located to strengthen bridging adjustments. Ratio points were determined for compilation.

The Transverse Mercator, New York West coordinate system was used to adjust the bridging strips.

The manuscripts will be plotted using the same coordinate system.

23. Adequacy of Control

All control checked well within map accuracy standards and is more than sufficient for its intended use.

24. Supplemental Data

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

25. Photography

The coverage, overlap, and quality of the 1980 EC photographs were adequate for the job.

Submitted by,

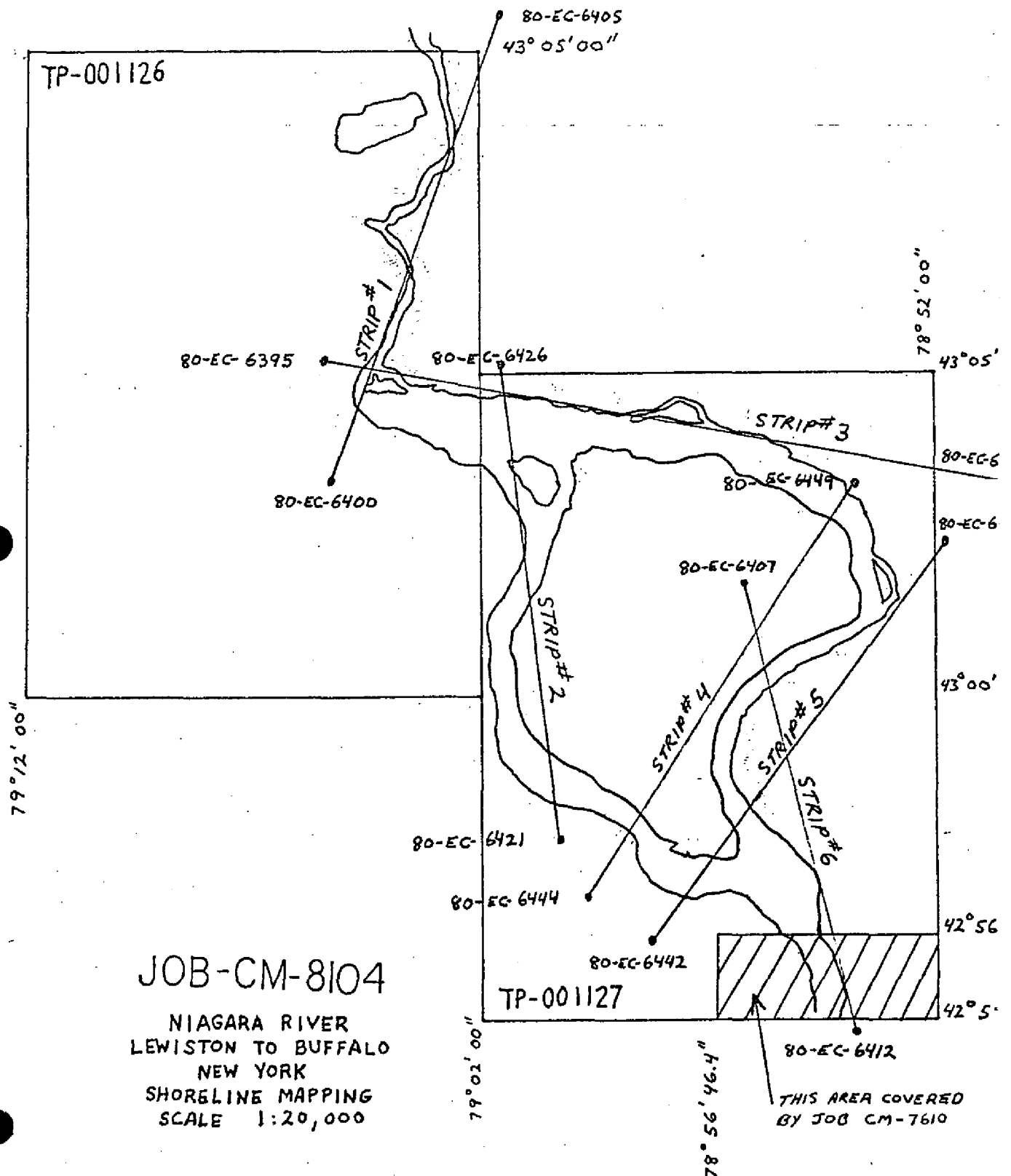


Brian F. Thornton

Approved and Forwarded:



Don Norman
Chief, Aerotriangulation Section



JOB-CM-8104

NIAGARA RIVER
LEWISTON TO BUFFALO
NEW YORK
SHORELINE MAPPING
SCALE 1:20,000

Adequacy of Control

Niagara River

Fit to Control-X & Y in feet

<u>Strip-1</u>	<u>X-error</u>	<u>Y-error</u>
▲ 82	0.115	0.477
207	- 3.727	- 0.545
70	- 1.800	- 0.610
▲ 53	- 1.979	0.736
50	- 0.603	0.215
▲ 51	2.025	- 0.919
32	- 1.099	- 2.835
▲ 206	- 0.163	- 0.297

<u>Strip-2</u>		
▲ 422801	0.000	0.000
422802	0.662	0.732
▲ 205	0.000	- 0.004
423801	2.704	- 2.330
423802	2.879	- 2.047
189	0.500	0.400
253	- 5.873	1.313
246A	- 1.080	0.536
▲ 254	0.000	0.002
255	0.819	- 0.662
246	0.011	- 0.007
82	- 1.009	0.673
401801	3.323	- 1.616
401802	3.350	- 0.152
401808	1.776	- 0.276
425801	0.226	1.078
425802	0.539	1.634
425803	- 0.997	- 0.390
425804	- 0.584	- 0.571

<u>Strin-3</u>	<u>X-error</u>	<u>Y-error</u>
▲ 436101	- 0.428	0.341
436102	- 1.441	1.487
390101	3.014	0.433
390102	0.298	1.682
▲ 390103	0.903	- 1.163
393146	- 1.221	1.802
393152	- 0.023	- 4.558
▲ 393154	- 1.203	1.340
393155	- 0.942	0.213
393156	- 3.955	0.717
393157	- 0.319	1.335
393186	- 1.979	- 0.036
▲ 400182	0.726	- 0.517
401170	- 0.455	0.934
402150	- 0.934	1.497
402151	- 0.840	1.498

<u>Strip-4</u>	<u>X-error</u>	<u>Y-error</u>
▲ 441133	0.764	0.532
441134	- 0.289	0.553
445801	0.524	0.043
▲ 445802	0.586	0.214
409803	0.677	2.006
409804	- 1.276	1.192
409805	2.197	3.471
409806	2.204	2.676
446801	0.700	0.727
446802	- 1.243	- 0.162
408158	- 1.072	- 2.848
409801	- 0.798	1.453
409802	0.050	- 0.117
▲ 447801	0.265	- 0.400
447802	- 1.206	0.440
407135	- 0.304	0.254
408801	- 0.458	- 0.024
408802	- 1.811	0.557
408803	- 0.462	0.587
408804	- 2.255	0.448
▲ 438103	0.084	0.083
438143	0.537	- 1.887
448801	0.627	- 0.218
448802	0.310	- 0.908

<u>Strip-5</u>	<u>X-error</u>	<u>Y-error</u>
▲ 436101	0.677	- 0.220
436102	- 0.156	- 0.206
▲ 438103	- 2.061	- 0.077
438105	- 1.449	- 6.515
438143	0.410	- 0.774
438117	- 0.124	- 2.064
438118	2.104	- 3.666
409126	- 0.450	- 3.405
409127	- 1.349	- 0.860
▲ 410130	1.516	- 1.242
410132	0.624	0.781
441133	1.826	- 1.836
▲ 441110	- 0.132	1.539
441111	0.355	2.299

	<u>Strip-6</u>	<u>X-error</u>	<u>Y-error</u>
▲	235	0.099	- 0.026
	258	- 1.342	- 2.694
	126	- 1.274	- 1.334
▲	127	- 0.513	- 0.603
	130	0.918	- 1.974
	131A	- 0.347	2.110
	136	3.635	0.709
	137	- 0.114	0.799
	141A	3.252	1.300
	142	1.655	4.671
	142A	0.926	0.315
▲	141	1.841	1.269
	145	- 0.757	- 1.261
	157	- 1.716	- 1.346
▲	149	- 2.147	0.136
▲	152	0.720	- 0.777

Niagara River
Lewiston To Buffalo, N.Y.
CM-8104

Ratio values for 1:30,000 scale "EC" photography.

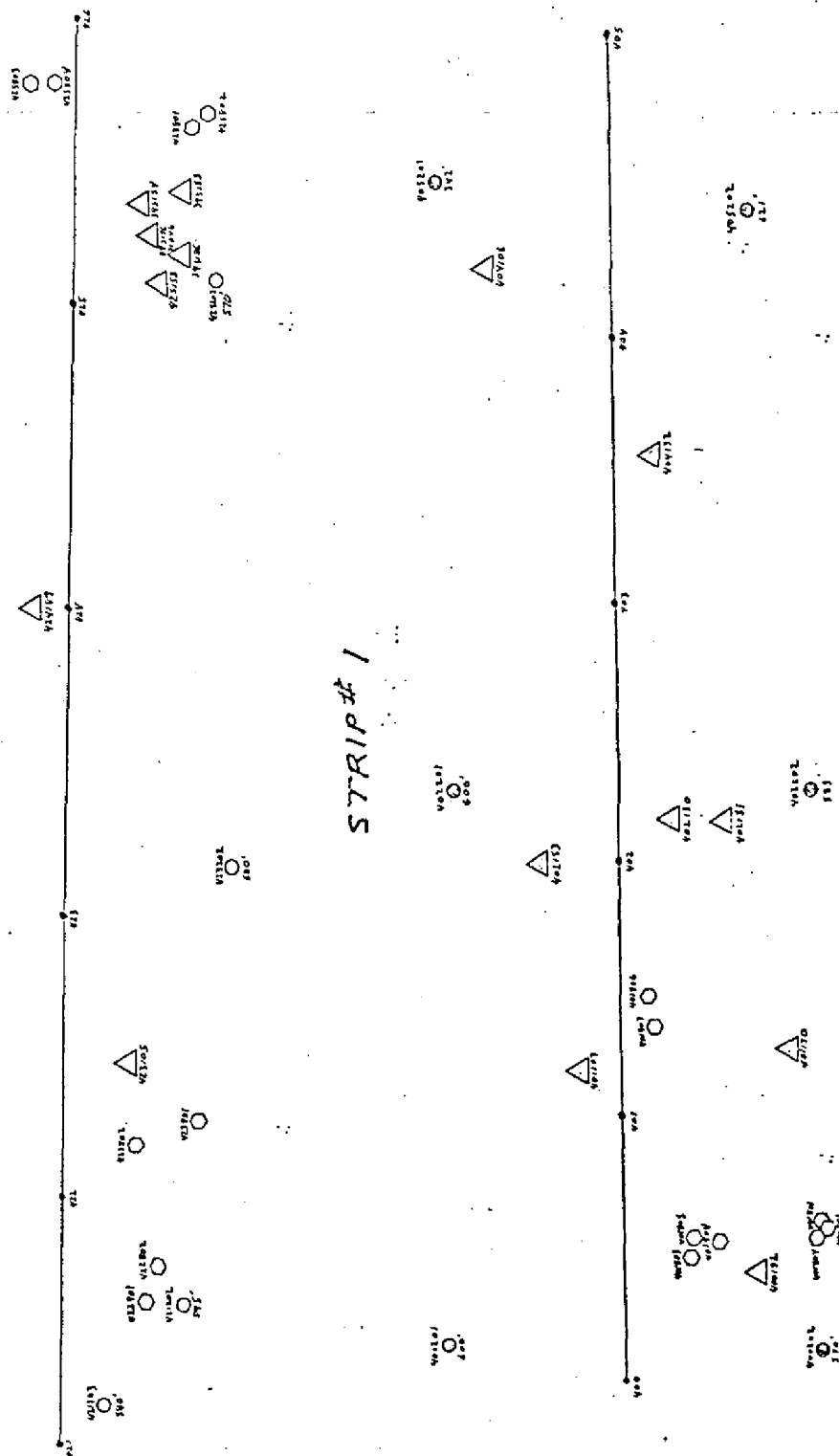
80(EC) 6387-6395	X 1.439
6400-6405	X 1.458
6407-6412	X 1.441
6421-6427	X 1.444
6437-6442	X 1.443
6444-6449	X 1.442

SCHEMATIC OF CONTROL by STRIPS

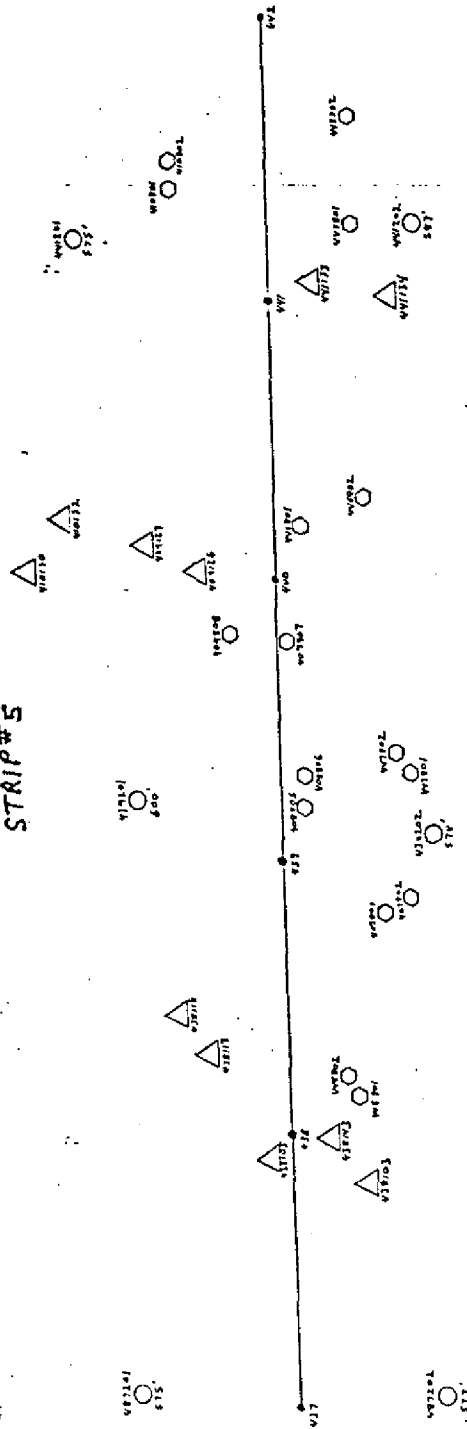
16

STRIP #2

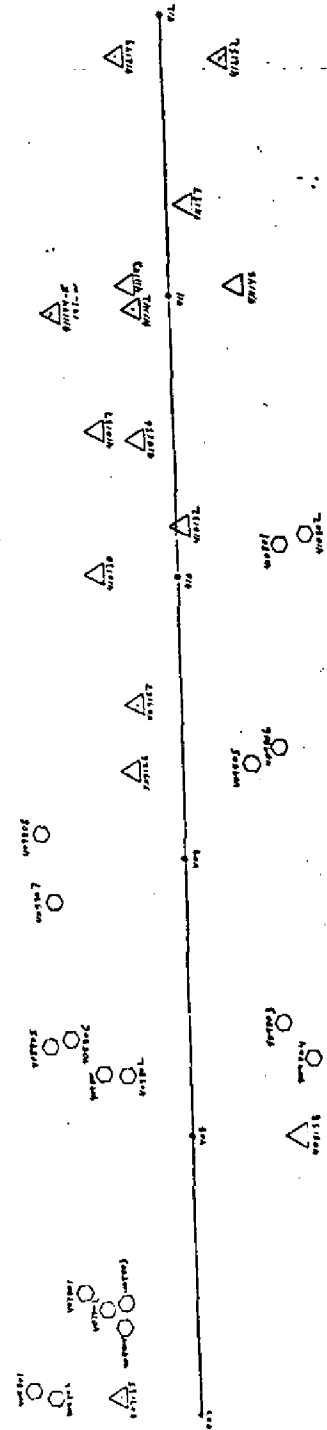
STRIP #1



STRIP#5



57810#6



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	CM-8104	GEODETIC DATUM	NA 1927	ORIGINATING ACTIVITY
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET	STATE New York	Coastal Mapping Division, AMC Norfolk, VA
			ZONE West		φ LATITUDE λ LONGITUDE
BUFFALO, DUPONT WATER TANK, NEW YORK, 1941	P. C's p. 41	127	X= 410,880.07 Y= 1,080,622.25	φ λ	
STRAWBERRY ISLAND UPPER CUT REAR RANGE LT., BUFFALO, 1941	" p. 41	131	X= 412,383.50 Y= 1,077,020.71	φ λ	
STRAWBERRY ISLAND UPPER CUT FRONT RANGE LT., BUFFALO, 1941	" p. 41	131A	X= 412,360.51 Y= 1,076,232.87	φ λ	
TONAWANDA SPAULDING FIBRE STACK, 1972	Quad 480783 Sta. 1153	217	X= 418,855.74 Y= 1,095,093.98	φ λ	
TONAWANDA CITY TANK, 1972	" Sta. 1150	218	X= 418,677.02 Y= 1,093,715.26	φ λ	
BUFFALO, ALL SAINTS CHURCH SPIRE, NEW YORK, 1941	P. C's p. 41	130	X= 414,462.30 Y= 1,077,790.42	φ λ	
BUFFALO, HUNGARIAN CHURCH SPIRE, NEW YORK, 1941	" p. 41	136	X= 414,311.59 Y= 1,074,219.76	φ λ	
BUFFALO, AMERICAN RADIATOR WATER TANK, NEW YORK, 1941	" p. 41	137	X= 415,449.35 Y= 1,074,140.95	φ λ	
BUFFALO, CHURCH OF THE ASSUMPTION, E. SPIRE, NEW YORK, 1941	" p. 41	141	X= 418,380.47 Y= 1,070,854.93	φ λ	
BUFFALO, CHURCH OF THE ASSUMPTION, W. SPIRE, NEW YORK, 1941	" p. 41	141-A	X= 418,325.03 Y= 1,070,828.10	φ λ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY	W. Connolly	DATE 2/4/82	LISTING CHECKED BY	P. L. Evans	DATE 2/4/82
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01127	STATION NAME	JOB NO. CM-8104	GEODETTIC DATUM NA 1927		ORIGINATING ACTIVITY Coastal Mapping Div., AMC Norfolk, VA		REMARKS
			SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE New York ZONE West	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	
NIAGARA MOHAWK CORP. LT., 1980		OPR-W-216-HFP- 80 Sta. 202	257	X= 388,663.142 Y= 1,118,642.874	φ λ		
NORTH BRIDGE CRIB LT., 1980		" Sta. 195	256	X= 390,278.187 Y= 1,116,920.985	φ λ		
BEAVER ISLAND STATE PARK TANK, 1972		OPR-W-216-HFP- 80 Sta 154 Quad 420784 Sta. 1085	234	X= 399,435.563 Y= 1,080,705.769	φ λ		
BEAVER ISLAND PARK BUILDING CUPOLA, NEW YORK, 1941		P.C's p. 40	133	X= 401,538.53 Y= 1,078,857.44	φ λ		
TONAWANDA WICKWIRE STEEL PLANT STACK, 1909		" p. 41	123	X= 404,562.25 Y= 1,087,098.00	φ λ		
GRAND ISLAND TV STA. WUTV, MAST, 1980		OPR-W-216-HFP- 80 Sta 159 Quad 430783 Sta. 1960	235	X= 408,112.95 Y= 1,102,347.62	φ λ		
NORTH TONAWANDA INTAKE CRIB LT., 1980		OPR-W-216-HFP- 80 Sta 161	103	X= 417,562.388 Y= 1,102,575.360	φ λ		
LOCKPORT INTAKE CRIB LIGHT, 1980		" Sta. 162	244	X= 416,905.875 Y= 1,105,055.695	φ λ		
BUFFALO, DUNLOP SOUTH WATER TANK, NEW YORK, 1941		P. C's p. 41	126	X= 410,774.32 Y= 1,082,696.61	φ λ		
GRAND ISLAND RADIO STATION WHLO, W. MAST, 1972		Quad 430783 Sta. 1059	205	X= 390,443.000 Y= 1,095,122.730	φ λ		
COMPUTED BY			DATE	COMPUTATION CHECKED BY	DATE		
LISTED BY	W. Connally		DATE 2/4/82	LISTING CHECKED BY P. L. Evans	DATE 2/4/82		
HAND PLOTTING BY			DATE	HAND PLOTTING CHECKED BY	DATE		

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01127	STATION NAME	JOB NO. CM-8104	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODEIC DATUM NA 1927		ORIGINATING ACTIVITY Coastal Mapping Div., AMC Norfolk, VA		REMARKS
					STATE ZONE	COORDINATES IN FEET New York West	φ LATITUDE λ LONGITUDE		
HOOKER ELECT. CHEM. CRIB LT., 1980			OPR-W-216- HFP-80 Sta. 188	252		X= 388,457.984	φ		
						Y= 1,111,624.725	λ		
BUCKHORN ISLAND INTAKE CRIB LT., 1980			Sta. 189	253		X= 387,735.051	φ		
						Y= 1,115,561.536	λ		
NIAGARA FALLS TRANS LT. C, 1980			Sta. 194	86		X= 387,968.191	φ		
						Y= 1,117,432.377	λ		
TONAWANDA INTAKE CRIB LIGHT, 1980			Sta. 160	243		X= 417,251.549	φ		
						Y= 1,101,003.478	λ		
BUCKHORN ISLAND DIKE LT. 2, 1980			Sta. 190	246		X= 387,012.128	φ		
						Y= 1,117,810.246	λ		
BUCKHORN ISLAND DIKE LT. 3, 1980			OPR-N-216- HFP-80 Sta. 201	246-A		X= 387,277.598	φ		
						Y= 1,117,820.090	λ		
BUCKHORN ISLAND DIKE LT. 1, 1980			Sta. 191	254		X= 386,621.043	φ		
						Y= 1,118,711.512	λ		
NIAGARA FALLS TRANS LT. B, 1980			Sta. 192	255		X= 387,553.739	φ		
						Y= 1,118,977.248	λ		
NIAGARA FALLS INTAKE CRIB LT., 1980			Sta. 193	255A		X= 387,767.907	φ		
						Y= 1,118,988.593	λ		
BRIDGEPORT, WATER TANK, FORT ERIE, CANADA, 1941			P. C's p. 41	145		X= 410,011.95	φ		
						Y= 1,066,538.40	λ		
COMPUTED BY				DATE		COMPUTATION CHECKED BY		DATE	
LISTED BY	W. Connally			DATE	2/4/82	LISTING CHECKED BY	P. L. Evans	DATE	2/4/82
HAND PLOTTING BY				DATE		HAND PLOTTING CHECKED BY		DATE	

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	CM-8104	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
				TP-01127	NA 1927		STATE	ZONE	NEW YORK	WEST	
	BUFFALO, ST. FRANCIS XAVIER CHURCH, CROSS, NY 1941	P. C's p. 41			142			$x = 414,966.92$ $y = 1,069,854.19$	ϕ λ		
	BUFFALO, ST. JOHN'S EVANGE- LICAL CHURCH, SPIRE, NY, 1941	" p. 41			142-A			$x = 415,179.38$ $y = 1,069,521.13$	ϕ λ		
	FORT ERIE, ST. PAUL'S ANGLI- CAN CHURCH SPIRE, 1941	" p. 41			157			$x = 411,870.17$ $y = 1,063,922.70$	ϕ λ		
	SCHOOLHOUSE CUPOLA, CANADA, 1941	" p. 40			189			$x = 383,357.66$ $y = 1,105,738.92$	ϕ λ		
	EDGE WATER 2, 1981	Niagara River Photo ID Book			260			$x = 410,621.770$ $y = 1,112,272.93$	ϕ λ		
	TAURIELLO, 1972	" Quad 420784 Sta. 1416			213			$x = 402,546.93$ $y = 1,079,754.680$	ϕ λ		
	TONAWANDA, UPPER WATERWORKS STACK, NEW YORK, 1909	OPR-W-216-HFP- 80 p. 41			105			$x = 419,263.15$ $y = 1,100,725.90$	ϕ λ		
	GRAND ISLAND WATER TANK, 1980	Quad 420784 Sta. 1250			258			$x = 400,561.93$ $y = 1,092,857.71$	ϕ λ		
								$x =$ $y =$	ϕ λ		
								$x =$ $y =$	ϕ λ		
COMPUTED BY					DATE			COMPUTATION CHECKED BY		DATE	
LISTED BY	W. Connally				DATE	2/4/82		LISTING CHECKED BY	P. I. Evans	DATE	2/4/82
HAND PLOTTING BY					DATE			HAND PLOTTING CHECKED BY		DATE	

COMPILATION REPORT

TP-01127

CM-8104

31. DELINEATION

Delineation was accomplished by photo interpretation of the 1980 1:30,000 scale color photography. The Wild B-8 stereoplotting instrument was used to compile all map detail. The photography was adequate. Refer to 76-36B, Item 1 for a listing of the photographs used.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated September 1981.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled from office interpretation of the aerial photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled from office interpretation of the aerial photographs. No unusual problems were encountered.

Refer to the data record form 76-36B, Item 2 for definition of shoreline.

36. OFFSHORE DETAILS

Offshore details were compiled from office interpretation of the photographs. No unusual problems were encountered.

37. LANDMARKS AND AIDS

Appropriate copies of 76-40 forms are bound with this report.

38. CONTROL FOR FUTURE SURVEYS

None

TP-01127
CM-8104

39. JUNCTIONS

Refer to the data record form 76-36B, Item 5 of this descriptive report.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangles: Buffalo N.W., New York-Ontario dated 1965, scale 1:24,000; Niagara Falls, New York-Ontario dated 1965, scale 1:25,000, and Tonawanda West, New York, dated 1980, scale 1:25,000

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with N.O.S. Chart 14832 scale 1:30,000, 28th edition, dated June 13, 1981.

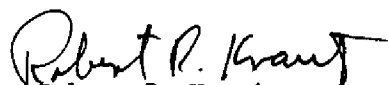
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

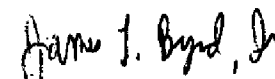
None

Submitted by:


Robert R. Kravitz
Cartographic Technician

Date: April 16, 1982

Approved:


James L. Byrd, Jr.
Chief, Coastal Mapping Section

REVIEW REPORT

SHORELINE

TP-01127

61. GENERAL STATEMENT

See Summary included with this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S. Geological Survey Quadrangles: Buffalo N.W., New York-Ontario dated 1965, scale 1:24,000; Niagara Falls, New York-Ontario, dated 1965, scale 1:25,000 and Tonawanda West, New York, dated 1980, scale 1:25,000

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Contemporary hydrographic surveys H-9841 and H-9889 both at 1:10,000 scale were still in the processing stage in the Verification Branch at the Atlantic Marine Center.

No comparison was made.

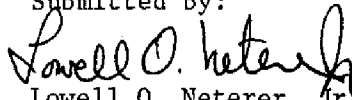
65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with N.O.S. Chart 14832, scale 1:30,000, 28th edition, dated June 13, 1981.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by:

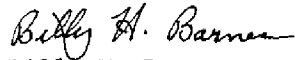

Lowell O. Neterer, Jr.
Final Reviewer
January 29, 1982

REVIEW REPORT

SHORELINE

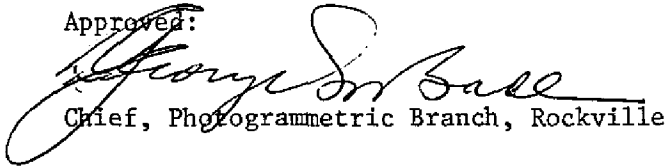
TP-01127

Approved for forwarding:

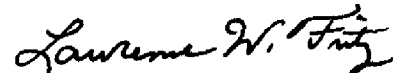


Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved:



Chief, Photogrammetric Branch, Rockville

 1/17/84
Chief, Photogrammetry Division

6-1-1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8104 (Niagara Falls, N.Y.)

TP-01127

Baker Creek

Bayers Creek

Beaver Island

Big Sixmile Creek

Black Creek

Black Rock Canal

Buckhorn Island

Buffalo

Burnt Ship Creek

Canadian National (RY)

Cayuga Creek

Cayuga Island

Chippawa Channel

Conrail (RR)

Cook Point

Edgewater

Erie Canal

Ferry Village

Fort Erie

Fort Erie North

Frenchman Creek

Grand Island

Grandyle Village

Gun Creek

Little River (1)

Little River (2)

Little Sixmile Creek

Miller Creek

Motor Island

Navy Island

New York

Niagara Falls (Ppl)

Niagara River

North Tonawanda

Ontario

Sandy Beach (Ppl)

Scajaquada Creek

Spicer Creek

Squaw Island

Strawberry Island

Tonawanda

Tonawanda Channel

Tonawanda Island

Twomile Creek

Usshers Creek

Woods Creek

Approved by:

Charles E. Harrington
Charles E. Harrington

Chief Geographer, OA/C3x5

Dissemination of Project Material

CM-8104

National Archives/Federal Record Center

Box (contents)

Bridging Photographs

Field Folios Containing:

Plane Coordinate Plotted Control Printouts

Photoidentified Control W/Ground Points

Field Report

Grand Island-Buffalo Terminal Description Printouts

Field Notes W/C.S.I. Cards

Indexes

Correspondence:

Form 76-41

Form 76-53

Form 76-82A

Letters:

Instructions

Replies

Bureau Archives:

Registered Copy of Each Map

Descriptive Report of Each Map

Reproduction Division

8x Reduction Negative of Each Map

Office of Staff Geographer

Geographic Names Standard

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NONFLOATING AIDS										FOR CHARTS									
TO BE CHARTED ☒ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Division New York		STATE New York		LOCALITY Grand Island		DATE 2/9/82		ORIGINATING ACTIVITY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)									
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.		JOB NUMBER CM-8104		SURVEY NUMBER TP-01127		DATUM NA 1927		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED							
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		LATITUDE ° / ' " D.M. Meters		LONGITUDE ° / ' " D.P. Meters		OFFICE		FIELD		CHARTS AFFECTED							
FRONT RANGE LIGHT		-Upper Range Front Light (Strawberry Island Upper Cut Range Light, Buffalo, 1941)		42 57		78 54		38.498		80 E(C) 6411 9/27/80		14832							
REAR RANGE LIGHT		-Upper Range Rear Light (Strawberry Island Upper Cut Range Light, Buffalo, 1941)		42 57		78 54		38.230		80 E(C) 6411 9/27/80		14832							
FRONT RANGE LIGHT		-Lower Range Front Light		42 57		78 54		34.82		80 E(C) 6411 9/27/80		14832							
REAR RANGE LIGHT		-Lower Range Rear Light		42 56		78 54		28.32		80 E(C) 6411 9/27/80		14832							
FRONT RANGE LIGHT		Grand Island Range Front Light		42 58		78 56		50.24		80 E(C) 6440 9/27/80		14832							
REAR RANGE LIGHT		Grand Island Range Rear Light		42 58		78 57		05.35		80 E(C) 6440 9/27/80		14832							
LIGHT		BEAVER ISLAND STATE PARK																	
LIGHT		-East Entrance Light		42 57		78 57		17.23		80 E(C) 6441 9/27/80		14832							

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
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 (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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field Identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
NONFLOATING AIDS				FOR CHARTS				☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)			
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE					
Coastal Mapping Division		New York		Grand Island		Feb. 9, 1982					
AMC Norfolk, VA											
The following objects HAVE ☐ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.				DATUM:							
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		NA 1927					
CM-8104		TP-01127									
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED			
		° / ' " D.M. Meters	° / ' " D.P. Meters	° / ' " D.M. Meters	° / ' " D.P. Meters	OFFICE	FIELD				
LIGHT	-West Entrance Light	42 57	29.13	78 57	20.68	80 E(C) 644-1 9/27/80			14832		
	TONAWANDA CHANNEL										
LIGHT	(Tonawanda Intake Crib Light, 1980)	43 01	16.968	78 53	33.955	80 E(C) 6438 9/27/80			14832		
LIGHT	(North Tonawanda Intake Crib Light, 1980)	43 01	32.505	78 53	29.848	80 E(C) 6438 9/27/80			14832		
LIGHT	(Lockport Intake Crib Light, 1980)	43 01	56.981	78 53	38.810	80 E(C) 6438 9/27/80			14832		
	NIAGARA FALLS CHANNEL										
LIGHT	(North Bridge Crib Light, 1980)*	43 03	53.052	78 59	38.109	80 E(C) 6393 9/27/80			14832		
	*Not in Light List										

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
OFFICE 1. 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 (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
FIELD 1. 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	11. 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. 8-12-75 111. 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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

Replaces C&GS Form 567.

NONFLOATING AIDS

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

FOR CHARTS

REPORTING UNIT (Field Party, Ship or Office)		STATE	LOCALITY	DATE	ORIGINATING ACTIVITY	
☒ TO BE CHARTED	☐ TO BE REVISED				☐ HYDROGRAPHIC PARTY	
☐ TO BE DELETED					☐ GEODETIC PARTY	
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.		DATUM			☐ PHOTO FIELD PARTY	
OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	NA 1927		☒ COMPILATION ACTIVITY	
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
		LATITUDE	LONGITUDE	OFFICE	FIELD	
LIGHT	NIAGARA MOHAWK POWER CORPORATION LIGHT (Niagara Mohawk Corporation Light, 1980)	43 04	78 59	80 E(C) 6393 9/27/80		14832
LIGHT	(Niagara Falls Intake Crib Light, 1980)	43 04	79 00	80 E(C) 6393 9/27/80		14832
LIGHT C	Niagara Falls Transmission Line Light C (Niagara Falls Transmission Light C, 1980)	43 03	79 00	80 E(C) 6393 9/27/80		14832
LIGHT 1	(Buckhorn Island Dike Light 1, 1980)	43 04	79 00	80 E(C) 6393 9/27/80		14832
LIGHT 2	(Buckhorn Island Dike Light 2, 1980)	43 04	79 00	80 E(C) 6393 9/27/80		14832
LIGHT 3	(Buckhorn Island Dike Light 3, 1980)	43 04	79 00	80 E(C) 6393 9/27/80		14832
LIGHT	(Buckhorn Island Intake Crib Light, 1980)	43 03	79 00	80 E(C) 6393 9/27/80		14832
LIGHT	(Hooker Electro Chemical Crib Light, 1980)	43 03	79 00	80 E(C) 6393 9/27/80		14832
	CHIPPAWA CHANNEL					
LIGHT	Big Six Mile Channel ^{Creek} Light	43 01	79 05 00 36.74	80 E(C) 6423 9/27/80		14832

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
ACTIVITIES	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE ☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. 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 (Cont'd) 8. 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
FIELD 1. 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	11. 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. 8-12-75 111. 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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

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			
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (If field party, ship or office)	STATE	LOCALITY	DATE	☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)									
☒ The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.		Coastal Mapping Division New York	AMC, Norfolk, VA	Grand Island	Feb. 9, 1982										
OPR PROJECT NO.		JOB NUMBER	DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED								
		CM-8104	NA 1927												
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	POSITION		LONGITUDE	OFFICE	FIELD									
		LATITUDE	D.M. Meters												
	STRAWBERRY ISLAND CUT	° /	° /	//											
LIGHT	Cornelius Creek Dock Light				Unverified		14832								
LIGHT	North of Cornelius Creek Dock Light*				Unverified		14832								
LIGHT	On end of pier at Niagara State Frontier Park Commission East River Marina*				Unverified										
	BEAVER ISLAND STATE PARK														
LIGHT	-East Bulkhead Light**				Unverified		14832								
LIGHT	-West Bulkhead Light**				Unverified		14832								
	*Not Listed in Light List														
	**Listed in Light List Not Charted														

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	W. Connally
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 (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
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	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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				NONFLOATING AIDS XXXXXXXXXX FOR CHARTS				ORIGINATING ACTIVITY			
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED		ORIGINATING ACTIVITY			
TO BE CHARTED ☒ TO BE REVISED ☐ TO BE DELETED		Coastal Mapping Div.		New York		Grand Island		Feb. 9, 1982		UNVERIFIED		14832			
The following objects HAVE ☐ HAVE NOT ☒		AMC, Norfolk, VA		NA 1927		D.P. Meters		D.P. Meters		UNVERIFIED		14832			
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		POSITION		POSITION		UNVERIFIED		14832			
CM-8104		TP-01127		LATITUDE		LONGITUDE		OFFICE		FIELD		CHARTS AFFECTED			
DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		LATITUDE		LONGITUDE		OFFICE		FIELD		CHARTS AFFECTED		ORIGINATING ACTIVITY			
TONAWANDA CHANNEL		° /		° /		UNVERIFIED		UNVERIFIED		14832		HYDROGRAPHIC PARTY			
On South center side of South Grand Island Bridge*		D.M. Meters		D.P. Meters		UNVERIFIED		UNVERIFIED		14832		GEODETTIC PARTY			
On North center side of South Grand Island Bridge*		° /		° /		UNVERIFIED		UNVERIFIED		14832		PHOTO FIELD PARTY			
Ashland Refinery Obstruction Light A		D.M. Meters		D.P. Meters		UNVERIFIED		UNVERIFIED		14832		XX COMPILATION ACTIVITY			
Ashland Refinery Obstruction Light B		° /		° /		UNVERIFIED		UNVERIFIED		14832		FINAL REVIEWER			
Smith Boys Marina North Light		D.M. Meters		D.P. Meters		UNVERIFIED		UNVERIFIED		14832		QUALITY CONTROL & REVIEW GRP.			
Smith Boys Marina South Light		° /		° /		UNVERIFIED		UNVERIFIED		14832		COAST PILOT BRANCH			
*Not listed on Light List		D.M. Meters		D.P. Meters		UNVERIFIED		UNVERIFIED		14832		(See reverse for responsible personnel)			

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
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 (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
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	III. 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 II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

NOAA FORM 76-40 (8-74)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
NONFLOATING AIDS				FOR CHARTS				☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ 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	METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED			
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.		JOB NUMBER	SURVEY NUMBER	DATUM	POSITION						
OPR PROJECT NO.		CM-8104	TP-01127	NA 1927							
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE							
		° /	D.M. Meters	° /	D.P. Meters						
	NIAGARA FALLS CHANNEL										
LIGHT	Sandy Beach Yacht Club						14832				
FRONT RANGE LIGHT	Little River Range Front Light						14832				
REAR RANGE LIGHT	Little River Range Rear Light						14832				
LIGHT	LaSalle Yacht Club Pier East Light						14832				
LIGHT	LaSalle Yacht Club Pier West Light						14832				
LIGHT	At LaSalle Yacht Club*						14832				
	*Not listed in Light List										

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	
ACTIVITIES	
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 (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
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	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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

Replaces C&GS Form 567.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
 - ☐ GEODETIC PARTY
 - ☐ PHOTO FIELD PARTY
 - ☒ COMPILATION ACTIVITY
 - ☐ FINAL REVIEWER
 - ☐ QUALITY CONTROL & REVIEW GRP.
 - ☐ COAST PILOT BRANCH
- (See reverse for responsible personnel)

REPORTING UNIT
(Field Party, Ship or Office)
Coastal Mapping Div.
AMC, Norfolk, VA

STATE
New York

LOCALITY
Grand Island

DATE
Feb. 9,
1982

OPR PROJECT NO. The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

JOB NUMBER CM-8104

SURVEY NUMBER TP-01127

DATUM NA 1927

POSITION

LATITUDE LONGITUDE

D.M. Meters D.P. Meters

CHARTING NAME

DESCRIPTION

(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)

NEW YORK STATE BARGE CANAL ENTRANCE

-LIGHT 1 ***

-LIGHT 2 ***

-LIGHT 3 ***

***. These lights were removed according to notice to mariners

CHARTS AFFECTED

14832

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RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. 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 (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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
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 (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
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	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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
REPORTING UNIT (If field party, ship or office) Coastal Mapping Div. AMC, Norfolk, VA				STATE New York		LOCALITY Grand Island		DATE Feb. 8, 1982		☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)	
OPR PROJECT NO.		JOB NUMBER CM-8104		SURVEY NUMBER TP-01127		DUTY NA 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE	FIELD				
		° /	'	° /	'						
TANK	(Beaver Island State Park, Tank, 1972)	42 57	55.754	78 57	32.567	80 E(C) 6440 9/27/80			14832		
TANK	(Buffalo Dunlop S. Water Tank, New York, 1941)	42 58	15.892	78 55	00.172	80 E(C) 6440 9/27/80			14832		
TANK		42 58	16.55	78 55	26.648	80 E(C) 6440 9/27/80			14832		
STACK		42 58	13.62	78 55	50.28	80 E(C) 6440 9/27/80			14832		
STACK		42 58	18.01	78 55	57.51	80 E(C) 6440 9/27/80			14832		
STACK		42 58	21.81	78 55	37.16	80 E(C) 6440 9/27/80			14832		
TANK		42 58	21.81	78 55	38.47	80 E(C) 6440 9/27/80			14832		
RADIO MAST		42 58	39.25	78 56	08.36	80 E(C) 6440 9/27/80			14832		
TOWER		42 58	33.54	78 56	48.12	80 E(C) 6440 9/27/80			14832		
RADIO MAST	WBN Northeast of two	42 58	43.74	78 57	23.26	80 E(C) 6440 9/27/80			14832		

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	
ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. 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 (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
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	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH 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 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 367.

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

LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY	
☐ HYDROGRAPHIC PARTY	☐ PHOTO FIELD PARTY
☐ GEODETIC PARTY	☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER	☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH	☐ (See reverse for responsible personnel)

☒ TO BE CHARTED (If field party, ship or office)	REPORTING UNIT Coastal Mapping Div.	STATE New York	LOCALITY Grand Island	DATE Feb. 8, 1982
☐ TO BE REVISED	AMC, Norfolk, VA			
☐ TO BE DELETED				

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

OPR PROJECT NO.		JOB NUMBER	SURVEY NUMBER	DATUM	NA 1927				METHOD AND DATE OF LOCATION (See instructions on reverse side)				CHARTS AFFECTED
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		POSITION				OFFICE		FIELD			
				LATITUDE		LONGITUDE							
		° /	//	D.M. Meters	° /	//	D.P. Meters						
RADIO MAST	WBN Southwest of two	42 58		40.74	78 57	26.69		80 E(C) 6440	9/27/80		14832		
STACK		42 59		01.85	78 55	34.20		80 E(C) 6440	9/27/80		14832		
STACK		42 58		58.86	78 56	22.71		80 E(C) 6408	9/27/80		14832		
STACK	Easterly of two	42 59		04.31	75 55	32.36		80 E(C) 6408	9/27/80		14832		
STACK	Westerly of two	42 59		04.29	78 55	33.38		80 E(C) 6408	9/27/80		14832		
RADIO MAST		42 59		05.87	78 55	02.49		80 E(C) 6408	9/27/80		14832		
TANK	(Grand Island Water Tank, 1980)	42 59		55.837	78 57	18.140		80 E(C) 6422	9/27/80		14832		
RADIO MAST	WHLD East Mast	43 00		19.40	78 59	28.72		80 E(C) 6422	9/27/80		14832		
RADIO MAST	(Grand Island Radio Station WHLD West Mast, 1972)	43 00		17.746	78 59	34.456		80 E(C) 6422	9/27/80		14832		
TOWER	Easterly of two, East side of river	43 00		13.90	78 55	25.16		80 E(C) 6408	9/27/80		14832		

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD.	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
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 (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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				LANDMARKS FOR CHARTS				ORIGINATING ACTIVITY			
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. AMC, Norfolk, VA	STATE New York	LOCALITY Grand Island	DATE Feb. 8, 1982					☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)					
OPR PROJECT NO.		JOB NUMBER CM-8104	SURVEY NUMBER TP-01127	DATUM NA 1927		POSITION				METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED			
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		LATITUDE ° / ' " D.M. Meters		LONGITUDE ° / ' " D.P. Meters		OFFICE		FIELD					
TOWER	Westerly of two, East side of river	43 00	12.89	75 55	26.99	80 E(C) 6408 9/27/80	14832								
TOWER	Easterly of two, West side of river	43 00	28.54	75 55	38.87	80 E(C) 6408 9/27/80	14832								
TOWER	Westerly of two, West side of river	43 00	27.78	78 55	40.70	80 E(C) 6408 9/27/80	14832								
STACK	(Tonawanda Spaulding Fibre Stack, 1972)	43 00	18.653	78 53	12.073	80 E(C) 6438 9/27/80	14832								
TOWER		43 00	38.14	78 54	28.30	80 E(C) 6438 9/27/80	14832								
TANK		43 01	16.31	78 53	06.21	80 E(C) 6438 9/27/80	14832								
STACK	Southerly of two	43 01	12.97	78 53	06.64	80 E(C) 6438 9/27/80	14832								
STACK	(Tonawanda Upper Waterworks Stack, New York, 1909) Northerly of two	43 01	14.298	78 53	06.862	80 E(C) 6438 9/27/80	14832								
TV MAST	(Grand Island T.V. Station WUTV Mast, 1980)	43 01	29.893	75 55	37.050	80 E(C) 6408 9/27/80	14832								
STACK		43 02	09.82	78 53	05.54	80 E(C) 6438 9/27/80	14832								

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	
ACTIVITIES	
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 (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
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	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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				LANDMARKS FOR CHARTS				ORIGINATING ACTIVITY			
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. AMC, Norfolk, VA	STATE New York	LOCALITY Grand Island	DATE Feb. 8, 1982					☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)					
OPR PROJECT NO.		JOB NUMBER	SURVEY NUMBER	DATUM	The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.				METHOD AND DATE OF LOCATION (See instructions on reverse side)				CHARTS AFFECTED		
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE D.M. Meters	LONGITUDE D.P. Meters	POSITION		OFFICE	FIELD								
SPIRE		43 02	20.96	78 52	48.55	80 E(C) 6438 9/27/80						14832			
TANK		43 02	36.93	78 53	13.39	80 E(C) 6449 9/27/80						14832			
RADIO MAST		43 02	41.36	78 53	22.16	80 E(C) 6449 9/27/80						14832			
TANK		43 04	10.17	78 55	31.17	80 E(C) 6390 9/27/80						14832			
TANK		43 04	26.33	78 56	21.72	80 E(C) 6391 9/27/80						14832			
MICRO MAST		43 04	26.39	78 56	23.48	80 E(C) 6391 9/27/80						14832			
STACK		43 04	35.14	78 58	00.00	80 E(C) 6392 9/27/80						14832			
STACK		43 04	28.59	78 58	41.67	80 E(C) 6392 9/27/80						14832			
TOWER		43 03	51.48	78 59	58.16	80 E(C) 6393 9/27/80						14832			
TOWER		43 04	28.51	79 00	01.75	80 E(C) 6393 9/27/80						14832			

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. 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 (Cont'd) 8. 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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	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.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

Replaces C&GS Form 567.

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

LANDMARKS FOR CHARTS

REPORTING UNIT
(Field Party, Ship or Office)
Coastal Mapping Div.
AMC, Norfolk, VA

STATE
New York

LOCALITY
Grand Island

DATE
Feb. 8,
1982

ORIGINATING ACTIVITY
☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH
(See reverse for responsible personnel)

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

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	JOB NUMBER	SURVEY NUMBER	DATUM		POSITION				METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
				NA 1927		LATITUDE		LONGITUDE		OFFICE	FIELD	
				° /	D.M. Meters	° /	D.P. Meters					
								° /	° /			
TANK		CM-8104	TP-01127	43 04	33.40	79 00	07.22	80 E(C) 6393 9/27/80		14832		
RADIO MAST	WJL			43 04	43.47	79 00	05.37	80 E(C) 6393 9/27/80		14832		
TOWER				43 04	28.43	79 00	20.57	80 E(C) 6393 9/27/80		14832		
TOWER	Easterly of two			43 04	37.90	79 00	52.65	80 E(C) 6393 9/27/80		14832		
TOWER	Westerly of two			43 04	39.31	79 01	01.90	80 E(C) 6393 9/27/80		14832		
STACK	at Hooker Chemical			43 04	52.64	79 00	34.92	80 E(C) 6393 9/27/80		14832		
TOWER								UNVERIFIED		14832		
STACK								UNVERIFIED		14832		

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	W. Connally
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
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 (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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	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.
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