

TP-00266

TP-00266

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00266	Edition No. 1
Job No. CM-7609	
Map Classification Final Field Edited Map	
Type of Survey SHORELINE	
LOCALITY	
State Wisconsin	
General Locality Lake Michigan	
Locality Milwaukee Harbor	
19 ₇₅ TO 19 ₇₇	
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. 00266	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS Final	
				<input type="checkbox"/> REVISED		JOB CM 7609	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Coastal Mapping Division				TYPE OF SURVEY		JOB PH. _____	
Norfolk, VA				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
OFFICER-IN-CHARGE				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
Jeffrey G. Carlen, Cdr.				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Vertical Datum Reference - 7/13/76				Premarking - March 31, 1976			
Aerotriangulation - 8/17/76							
Compilation - 10/13/76							
Compilation Supplement I 1/24/77							
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER				OTHER (Specify)			
<input type="checkbox"/> MEAN LOW-WATER				International Great Lakes			
<input type="checkbox"/> MEAN LOWER LOW-WATER				Datum (1955) - Lake Michigan			
<input type="checkbox"/> MEAN SEA LEVEL				Low Water Datum			
3. MAP PROJECTION				4. GRID(S)			
Lambert Conformal				STATE Wisconsin		ZONE South	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY K. Baker						Sep 1976	
METHOD: Analytic LANDMARKS AND AIDS BY K. Baker						Sep 1976	
2. CONTROL AND BRIDGE POINTS PLOTTED BY S. Solbeck						Sep 1976	
METHOD: Coradomat CHECKED BY S. Solbeck						Sep 1976	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY G. Morris						Apr 1977	
COMPILATION CHECKED BY J. Byrd						Apr 1977	
INSTRUMENT: Wild B-8				CONTOURS BY N.A.			
SCALE: 1:15,000				CHECKED BY N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY D. Butler						Jun 1977	
CHECKED BY L. O. Neterer, Jr.						Jul 1977	
METHOD: Smooth drafted				CONTOURS BY N.A.			
SCALE: 1:10,000				CHECKED BY N.A.			
HYDRO SUPPORT DATA BY D. Butler						May 1977	
CHECKED BY L. O. Neterer, Jr.						Jul 1977	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY L. O. Neterer, Jr.						Jul 1977	
6. APPLICATION OF FIELD EDIT DATA BY J. Roderick						Jan 1978	
CHECKED BY L. O. Neterer, Jr.						Feb 1978	
7. COMPILATION SECTION REVIEW BY L. O. Neterer, Jr.						Feb 1978	
8. FINAL REVIEW BY A. L. Shands						Jun 1978	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY A. L. Shands						Jun 1978	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY F.R. WATTS						JULY 1978	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY R.T. GAYDOR						NOV 1978	

TP-00266
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 "12"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE		
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE		
<input type="checkbox"/> PREDICTED TIDES	NA			Central		<input checked="" type="checkbox"/> STANDARD
<input type="checkbox"/> REFERENCE STATION RECORDS	NA			MERIDIAN		<input type="checkbox"/> DAYLIGHT
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY	NA					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE		
76 Z(C) 4440-4444	5/4/76	0807	1:30,000	NA		
76 Z(C) 4402-4406	4/27/76	0815	1:30,000	NA		
75 B(P) 5668-4669	10/2/75		1:30,000			

REMARKS
Lake level at time of photography was 580.15 ft. or +3.35 ft. Lake Michigan Low Water Datum, Milwaukee Gage.

2. SOURCE OF MEAN HIGH-WATER LINE:

Mean High Water Line is not applicable. The "Shoreline" was delineated from the above listed photographs and is defined as that line visible on the photographs which marks the contact between water and land and also from notes on the field edit ozalid.

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

NA

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	No Survey	No Survey

REMARKS
TP-00266 is the only map in the project

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Stachon	Apr 1976
2. HORIZONTAL CONTROL	RECOVERED BY	R. Stachon
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	R. Stachon
3. VERTICAL CONTROL	RECOVERED BY	N.A.
	ESTABLISHED BY	N.A.
	PRE-MARKED OR IDENTIFIED BY	N.A.
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (<i>Triangulation Stations</i>) BY	R. Stachon
	LOCATED (<i>Field Methods</i>) BY	None
	IDENTIFIED BY	R. Stachon
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE	BY
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED
N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
76Z(C)4441	MILWAUKEE NORTH POINT LIGHT, 1953		
76Z(C)4442	MAITLAND, 1953		
76Z(C)4406	MILWAUKEE ST. JOSEPH AT BASILICA DOME, 1953		

3. PHOTO NUMBERS (*Clarification of details*)
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
76Z(C)4441	NORTH POINT LIGHT		
76Z(C)4406	DOME		

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*)
2-forms 152, 1-form 75-63, 1-form 76-53

TP-00266

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Teater	Oct 1977
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	J. Teater None None	Oct 1977
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N.A. N.A. N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	J. Teater J. Teater & Rev. Sec. J. Teater	Oct 1977 9th 1977 Oct 1977
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	J. Teater	Oct 1977
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None	2. VERTICAL CONTROL IDENTIFIED N.A.		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

76Z(C) 4404, 4441-4443

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
76Z(C) 4443	Elevator Shaft	76Z(C) 4441	McKinley Park Jetty Light
76Z(C) 4441	Elevator Shaft		
76Z(C) 4441	Elevator Shaft		
76Z(C) 4441	Elevator Shaft		
76Z(C) 4442	Beacon		

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 ~~22-forms 76-40 from Revisory Section~~
 1-film field edit ozalid ~~8-forms 76-40, original with field edit~~
 13-forms 76-40 ~~from field~~ A.L.S. 22-forms 76-165

TP-00266
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.	6/24/77	Class III manuscript Superseded	9/26/77	9/26/77
Field edit applied. Compilation complete.	1/13/78	Class I manuscript	2/28/78	2/28/78
Final Review	June 1978	Final	June 1978	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		3/6/78	Landmarks for deletion
56		3/6/78	Landmarks for charts
2		3/6/78	Aids for charts

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: March 6, 1978

3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

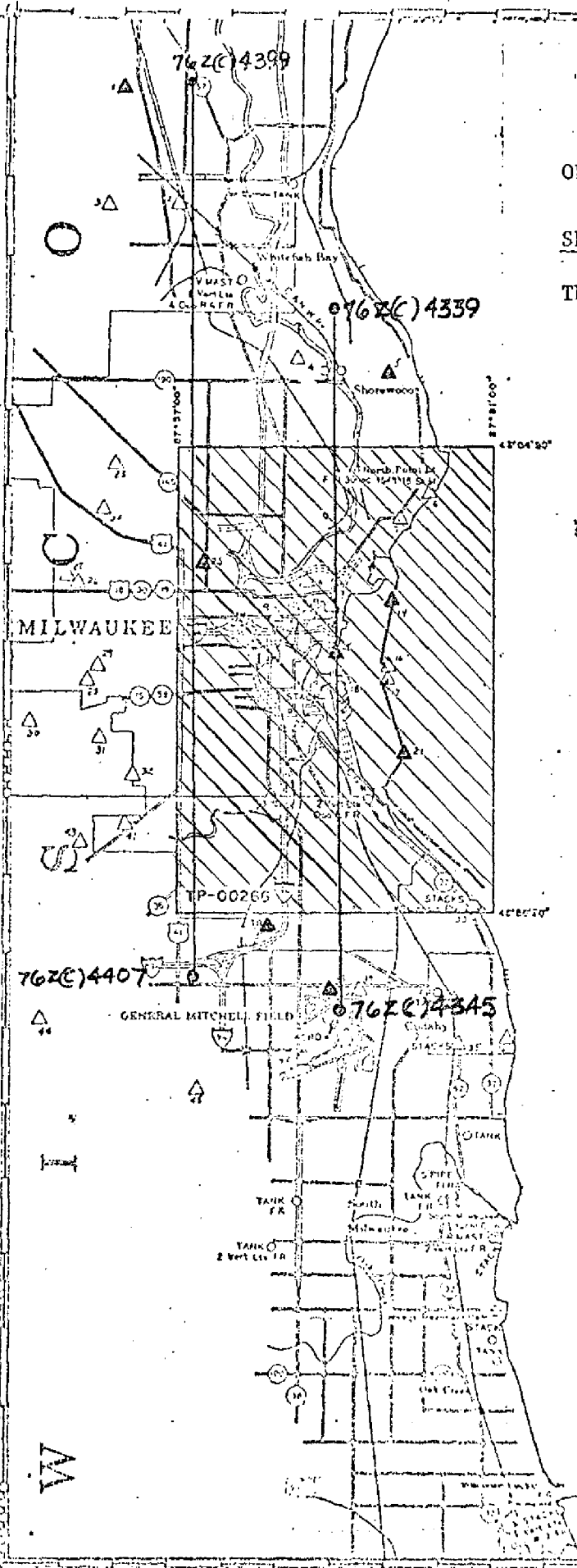
III. FEDERAL RECORDS CENTER DATA

- 1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
- 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS ⁷⁶⁻⁴⁰ ~~507~~ SUBMITTED BY FIELD PARTIES.
- 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Area Sq. Mi.

TP-00266 4.0

STRIP 1 CONTROL

	X	Y
5. SHOREWOOD	-0	1
15. Maitland	2	-1.5
14. ENTRANCE LIGHT	1.5	-2.5
21. SOUTH ENT. LIGHT	-3	4
38. MITCHELL	0	-1.5

STRIP 2 CONTROL

	X	Y
1. TRIPOLI	-0	-1
25. SPIRE	5.6	-2.4
37. LAKE CITY HALL TOWER (PARCEL)	1.5	1.4

JOB CM-7609

LAKE MICHIGAN - MILWAUKEE HARBOR WISCONSIN

SHORELINE MAPPING SCALE 1:60,000

LEGEND

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT TP-00266

This is a summary of TP-00266 which is the lone map in Project CM-7609. The project served to provide shoreline mapping in support of contemporary hydrographic surveys of the area and for nautical chart construction.

TP-00266 is a chart topography map covering the west shore of Lake Michigan from Latitude $42^{\circ} 58' 30''$ to ~~Longitude~~ $43^{\circ} 04' 30''$ and includes all of Milwaukee Bay, Wisconsin. ~~LATITUDE~~

Field activities prior to compilation were limited to the recovery and identification of horizontal control necessary for bridging.

Photography was flown for the job in April and May, 1976. However, it missed covering the shoreline at the south limit of the map by about 3000 ft. Photography flown in October, 1975 was supplied and used to compile that area.

Bridging was done by analytic triangulation methods at the Washington Science Center in September, 1976.

The map was compiled by B-8 instrument method at the Atlantic Marine Center in the spring of 1977. The area of the southernmost shoreline not covered on the 1976 photography (see above paragraph) was compiled in February, 1978.

Field ^{edit} ~~inspection~~ was performed in October, 1977. It was applied to the map at the Atlantic Marine Center in February, 1978.

Final Review was performed at the Atlantic Marine Center in June, 1978. The original base manuscript and all pertinent data was forwarded to the Washington Science Center for final registration.

PHOTOGRAMMETRIC PLOT REPORT
LAKE MICHIGAN-MILWAUKEE HARBOR
JOB CM-7609

Sept. 1976

21. Area Covered

The area covered by this report is the west coast of Lake Michigan at Milwaukee, Wisconsin. This area is covered by one 1:10,000 scale sheet, TP-00266.

22. Method

Two strips of 1:30,000 scale color photography were bridged by analytic aerotriangulation methods. The two strips of bridging photography were controlled by field identified control, including some office identified control, which ^{was} ~~were~~ used as checks. In the adjustment of strip 2 (inland), tie points from strip 1 were used as control, since there was an insufficient number of field identified control points for the adjustment.

Tie points were used as check points in both strips to insure an adequate junction of both strips during the strip adjustments. In plotting the aids to navigation that were also triangulation stations, the published triangulation values were used. In plotting the aids which were not triangulation stations, the adjusted values were used.

Ratio photos were made and ordered September 30, 1976, to be sent by the photo lab at a later date. TP-00266 was ruled on the coradomat, September 28, 1976.

23. Adequacy of Control

Control checked were within map accuracy standards and are more than sufficient for intended use.

One of the panelled stations, at the Milwaukee North Point Light, was 22 feet off in the X-direction. The model was reread and the readings were consistent, so the panel was rejected from the adjustment. The home station (Milwaukee North Point Light) readings were found to be accurate.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

25. Photography

The coverage, overlap, and quality of the photography were adequate for the job.

Submitted by:

Karin H. Baker

Approved and Forwarded by:

John Perrow
John D. Perrow, Jr.

Chief,
Aerotriangulation Section

PHOTOGRAMMETRIC PLOT REPORT
LAKE MICHIGAN-MILWAUKEE HARBOR
JOB CM-7609
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Submitted by:

Karin H. Baker

Approved and Forwarded by:

John Perrow
John D. Perrow, Jr.

Chief,
Aerotriangulation Section

List and Accuracy of Control used in Strip Adjustment

	<u>Point</u>	<u>X Error</u>	<u>Y Error</u>
STRIP 1: (Alongshore)	440101	-.601	1.155
	442101	2.407	-1.488
	442110	1.539	-2.538
	442113	-3.425	4.363
	445100	.080	-1.497
Strip 2: (Inland)	399101	-.691	-.782
	439801	4.789	.699
	440801	-2.775	5.049
	403110	5.577	-2.438
	441801	-4.016	.422
	442801	-7.202	-2.435
	443801	2.841	-1.946
	407101	1.475	1.412

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	REMARKS
				COORDINATES IN FEET STATE WISCONSIN ZONE South	N. A. 1927	φ LATITUDE	λ LONGITUDE		
TP-00266		CM-7609						Coastal Mapping Div. AMC	
	MILWAUKEE NORTH POINT LIGHT, 1953	430873 Page 1040	441100	x=	φ 43 03' 56.001"				Front M. Back M. 1728.1 123.4
	MILWAUKEE WATER WORKS, PARK WATER TOWER, 1953	430873 1053	441110	y=	λ 87 52' 16.691"				377.6 980.0
	MILWAUKEE, PABST BREWING CO., STACK, 1953	430873 1041	441111	x=	φ 43 03' 34.907"				1077.2 774.3
	MILWAUKEE, WISCONSIN TOWER BUILDING, TOWER,	430873 1056	441113	y=	λ 87 52' 47.226"				1068.7 289.0
	MILWAUKEE, CITY HALL DOME, 1953	430873 1030	441112	x=	φ 43 02' 45.457"				1402.8 448.7
	MILWAUKEE, RADIO STATION WFOX, MAST, 1953	430873 1045	442115	y=	λ 87 55' 29.843"				675.5 682.5
	MILWAUKEE, WISCONSIN TELEPHONE BUILDING, CUPOLA, 1953	430873 1055		x=	φ 43 02' 20.433"				630.5 1221.0
	GAS, 1953	430873 1005		y=	λ 87 55' 09.147"				207.1 1151.2
	MILWAUKEE, CUDAHY TOWER APARTMENTS, CUPOLA, 1953	430873 1035	441114	x=	φ 43 02' 28.771"				887.8 963.7
	MILWAUKEE, NORTH EN-TRANCE LIGHT, 1953	430873 1039	442110	y=	λ 87 54' 34.396"				778.6 579.5
COMPUTED BY	David Butler		DATE		φ 43 02' 20.422"				630.2 1221.3
LISTED BY	A. C. Rauck, Jr.		DATE		λ 87 54' 31.246"				707.3 651.0
HAND PLOTTING BY			DATE		φ 43 02' 21.560"				665.3 1186.2
			DATE		λ 87 54' 27.118"				613.8 744.5
			DATE		φ 43 02' 21.319"				657.9 1193.6
			DATE		λ 87 54' 11.208				253.7 1104.6
			DATE		φ 43 02' 28.617				883.1 968.4
			DATE		λ 87 53' 58.604"				1326.5 31.6
			DATE		φ 43 02' 37.033"				1142.8 708.7
			DATE		λ 87 52' 49.823"				1127.7 230.4
			DATE						DATE 4/12/77
			DATE						DATE 4/11/77
			DATE						DATE

COMPUTATION CHECKED BY Frank Margiotta

LISTING CHECKED BY David Butler

HAND PLOTTING CHECKED BY

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODETTIC DATUM		COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS	
					CM-7609	N.A. 1927	STATE	ZONE	φ LATITUDE	λ LONGITUDE		Front M.
TP-00266												
	MAITLAND 2, 1970	430873	1007		x=	φ 43 01'	λ 51.49098"	1589.0	262.5		1589.0	262.5
	MILWAUKEE BREAKWATER LIGHT, 1953	430873	1034	442111	y=	λ 87 53'	φ 59.99319"	1358.3	00.6		1358.3	00.6
	MILWAUKEE BREAKWATER ENTRANCE, SOUTHWATER LIGHT, 1953	430873	1033	442112	x=	φ 43 01'	λ 36.992"	1141.5	710.0		1141.5	710.0
	MILWAUKEE PIERHEAD LIGHT, 1953	430873	1042	442114	y=	λ 87 52'	φ 54.927"	1243.7	114.8		1243.7	114.8
	MILWAUKEE SOUTH PIERHEAD LIGHT, 1953	430873	1050	442117	x=	φ 43 01'	λ 31.407"	969.2	882.3		969.2	882.3
	MILWAUKEE, MUNICIPAL GARBAGE DISPOSAL PLANT, STACK, 1953	430873	1037	442116	y=	λ 87 52'	φ 54.561"	1235.4	123.1		1235.4	123.1
	MILWAUKEE, ALLEN BRADLEY COMPANY, CLOCK TOWER, 1953	430873	1029	443110	x=	φ 43 01'	λ 33.378"	1030.0	821.5		1030.0	821.5
	MILWAUKEE SOUTH ENTRANCE LIGHT, 1953	430873	1048	442113	y=	λ 87 53'	φ 42.938"	972.2	386.3		972.2	386.3
	MILWAUKEE, ST. JOSEPHAT BASILICA, DOME, 1953	430873	1046	443100	x=	φ 43 01'	λ 29.59"	913.1	938.4		913.1	938.4
	MILWAUKEE, THIRD CHURCH CUPOLA, 1953	430873	1051	402110	y=	λ 87 53'	φ 42.69"	966.6	391.9		966.6	391.9
	MILWAUKEE, ALLEN BRADLEY COMPANY, CLOCK TOWER, 1953	430873	1029	443110	x=	φ 43 01'	λ 17.558"	541.8	1309.7		541.8	1309.7
	MILWAUKEE SOUTH ENTRANCE LIGHT, 1953	430873	1048	442113	y=	λ 87 54'	φ 05.056"	114.5	1244.1		114.5	1244.1
	MILWAUKEE, ST. JOSEPHAT BASILICA, DOME, 1953	430873	1046	443100	x=	φ 43 01'	λ 05.164"	159.3	1692.2		159.3	1692.2
	MILWAUKEE, THIRD CHURCH CUPOLA, 1953	430873	1051	402110	y=	λ 87 54'	φ 42.269"	957.2	401.5		957.2	401.5
	MILWAUKEE, THIRD CHURCH CUPOLA, 1953	430873	1051	402110	x=	φ 43 00'	λ 30.047"	927.2	924.3		927.2	924.3
	MILWAUKEE, ST. JOSEPHAT BASILICA, DOME, 1953	430873	1046	443100	y=	λ 87 52'	φ 35.428"	802.4	556.5		802.4	556.5
	MILWAUKEE, THIRD CHURCH CUPOLA, 1953	430873	1051	402110	x=	φ 43 00'	λ 08.635"	266.5	1585.0		266.5	1585.0
	MILWAUKEE, ST. JOSEPHAT BASILICA, DOME, 1953	430873	1046	443100	y=	λ 87 55'	φ 08.623"	195.3	1163.8		195.3	1163.8
	MILWAUKEE, THIRD CHURCH CUPOLA, 1953	430873	1051	402110	x=	φ 43 04'	λ 18.932"	584.2	1267.3		584.2	1267.3
	MILWAUKEE, ST. JOSEPHAT BASILICA, DOME, 1953	430873	1046	443100	y=	λ 87 58'	φ 04.241"	95.9	1261.6		95.9	1261.6
COMPUTED BY	David Butler			DATE	4/11/77	COMPUTATION CHECKED BY	Frank Margiotta	DATE	4/12/77			
LISTED BY	A. C. Rauck, Jr.			DATE	10/11/76	LISTING CHECKED BY	David Butler	DATE	4/11/77			
HAND PLOTTING BY				DATE		HAND PLOTTING CHECKED BY		DATE				

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00266		JOB NO. CM-7609		GEODETIC DATUM N.A. 1927		ORIGINATING ACTIVITY Coastal Mapping Div. AMC		REMARKS Front M. Back M.	
STATION NAME		SOURCE OF INFORMATION (Index)		AEROTRI-ANGULATION POINT NUMBER		COORDINATES IN FEET STATE <u>Wisconsin</u> ZONE <u>South</u>		GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	
MILWAUKEE, ST. MICHAELS CATHOLIC CHURCH SPIRE, 1953		430873 1047		403110		ϕ λ ϕ 43 02' 59.271" λ 87 56' 34.514"		1829.0 781.1 22.5 576.9	
MILWAUKEE WISCONSIN ELECTRIC CO. STACK, 1953		430873 1054		441404		ϕ λ ϕ 43 02' 52.435" λ 87 54' 47.194"		1618.1 1068.1 233.4 289.9	
COMPUTED BY David Butler				4/11/77		COMPUTATION CHECKED BY Frank Margiotta		DATE 4/11/77	
LISTED BY A. C. Rauck, Jr.				4/11/76		LISTING CHECKED BY David Butler		DATE 4/11/77	
HAND PLOTTING BY				DATE		HAND PLOTTING CHECKED BY		DATE	

COMPILATION REPORT

TP-00266

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 color photography. Quality of photography is very good; however, coverage is not sufficient.

(see item 61 of Review Report)

32. CONTROL:

See the ~~attached~~ Photogrammetric Plot Report dated September, 1976.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details and the lake level shoreline were delineated by the Wild B-8 stereoplotter.

36. OFFSHORE DETAILS:

Breakwaters and other details were compiled by the Wild B-8 stereoplotter.

37. LANDMARKS AND AIDS:

Preliminary forms 76-40 for Landmarks and/or Aids were prepared by the Compilation Office and forwarded to the Field Editor and/or the Hydrographer for verification, location, or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See ~~the attached~~ Form 76-36B, ~~Item #5~~ of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

~~Refer to Photogrammetric Plot Report, September, 1976
as regards horizontal accuracy. Vertical control is not
applicable. No statement~~

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following U.S. Geological Survey Quadrangles: Milwaukee, South Milwaukee, and Greendale, WI, all at 1:24,000 scale and all dated 1958, photorevised 1971.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: No 14924, scale 1:10,000, 21st edition, dated July 12, 1975.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

David P. Butler

David P. Butler
Cartographic Technician
June 24, 1977

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00266

FIELD EDIT

Field edit was adequate, but not all questions asked were resolved. ~~Two~~^{ONE} general notes ~~were~~^{was} included on the field edit ozalid. 1- "Classify all bridges over navigable waters", 2- ~~"Classify the mean high water line as to its physical characteristics"~~. ~~These~~^{They} were not investigated by the field editor.

The field editor recommended deletion of nearly all the buildings on the manuscript because of their lack of landmark value. During a discussion on January 10, 1978, among Mr. Teater (the field editor), Mr. Neterer, and the compiler, it was concluded that the buildings were compiled as map features according to photogrammetric instructions and should remain on the manuscript. All towers, spires, tanks, etc., plotted as map features were removed from the manuscript except those marked "V-Vis." by the field editor.

Five stacks, ~~one tower and one clock tower~~ shown originally as map features were not deleted by the field editor and were marked "V-Vis" on the edit ozalid. One of the general notes to the field editor instructed him to delete all such features that were not of landmark value. Therefore, these features were considered landmarks, even though the field editor did not list them on the 76-40 forms.

The field editor neglected to submit elevations for the landmarks. Among the features not originally plotted as charted landmarks, he indicated 4 buildings (elevator shafts) on the 76-40 form, but sent no geographic positions. He identified 5 elevator shafts on photographs 76 Z(C)4441 and 4443, and all these elevator shaft buildings were located by the compiler on the manuscript by intersection. The extra elevator shaft was eliminated by Mr. Teater during the aforementioned discussion and removed. The remaining four were scaled and their positions were entered on the 76-40 form.

The field editor marked "delete" on several recovered triangulation stations. It was assumed that he intended that these triangulation stations not to be classified as landmarks. They were retained as horizontal control stations.

The field editor also recommended that McKinley Park Light be deleted. The Light is a private aid (See Light List, 1977) maintained from May 15-Oct. 15 and, according to photogrammetric Instruction No. 64, Amendment 1, dated Feb. 10, 1977, should be retained.

Joanne Roderick
January 16, 1978

FIELD EDIT Continued.

Upon the completion and review of the field edit application for this map manuscript, a CLASS I "Chart Maintenance Print" was sent to the Chart Information Branch, C-322.

The lack of 1976 photograph coverage at the south end of this map was noted on this copy to indicate that no photogrammetric compilation was accomplished in this area.

Lying within this area was triangulation station, CUDAHY LAKE-SIDE POWER PLANT, LARGEST STACK OF FOUR, 1953, which was charted as "STACKS" on chart no. 14924. Inasmuch as there was no photographic coverage, this control point was merely plotted in its geographic position, properly labeled, and its position, visually verified by the field editor, was submitted on a Form 76-40. Also submitted was a Form 76-40 for the deletion of the three remaining stacks south of the triangulation station. These three were recommended for deletion by the field editor.

The positions of these stacks being in close proximity to each other, and the position of the north stack or triangulation station being almost identical to one of the three stacks to be deleted, caused some concern to the Chart Information Branch. An investigation and the subsequent identity of earlier photography covering the area led to this current but not conclusive disposition to the problem.

1- Photos 75B(P)-5668 and 5669, dated October 2, 1975, at a scale of 1:30,000 were set up in the Wild B-8 plotter and scaled to the adequate controls such as triangulation stations, landmarks and other planimetric details and the area then compiled to completion. This included the positions of the four stacks.

2- While compiling from the 1975 stereo-model, it was found that the physical image of the second stack from the north of four, held to the geographic position of the triangulation station which is described as the "largest in diameter"---- and "the most northerly of four".

3- Subsequent research and the acquisition of the history of these stacks from Mr. Jerome F. Glembin, Results Engineer at the Lakeside Power Plant, exposed a few interesting facts not revealed in the original description of the control station.

a- At no time were these stacks at 150 ft. high, except during their period of construction. They were originally constructed at 234.5 ft.

b- In 1953 there were five stacks remaining, four at 284 ft. and one at 90 ft., not four stacks as in the original description. Stack no.2 was removed during 1953.

c- The possibility remains, that when this stack was established as a control station, the wrong stack could have been observed.

4- As it was not possible to resolve this hiatus by photogrammetric methods and no positive conclusion could be made to bring about a disposition at this time, Geodesy has determined that a field method of verification will be required.

FIELD EDIT Continued.

5- The problem is at present, of concern of Mark Maintenance, and until further substantial information is forthcoming the station CUDAHY LAKESIDE POWER PLANT, LARGEST STACK OF FOUR, 1953, will not be shown on the map manuscript, nor will it be included in the Compilation Report and Form 76-40.

The four stacks, delineated from the 1975 photographs, are shown on the manuscript and their respective positions indicated on an additional Form 76-40.

All evidence of the original control station and the three stacks deleted by the field editor have been eliminated from the Compilation Report data and from the Chart Information Branch records.

See the attached letter from the Wisconsin Electric Power Company and the comments to Final Review by the Chief, Coastal Mapping Section.

Albert C. Rawok, Jr.
JUNE 5, 1978



Wisconsin Electric POWER COMPANY

231 WEST MICHIGAN, MILWAUKEE, WISCONSIN 53201

April 5, 1978

Mr. Albert Rauck
Atlantic Marine Center
CAM 521
439 W. York Street
Norfolk, VA 23510

Dear Mr. Rauck:

Investigation with our Engineering and Construction Department relative to the stacks at our Lakeside Power Plant indicates that there were two periods where the stacks were changed from their original height.

Below is a listing of stack heights measured from City of Milwaukee datum which is 579.3' above mean sea level. Originally there was a total of six stacks. Stacks 1, 3, 5 and 6 have never been relocated (only changed in height) since their original installation.

<u>STACK</u>	<u>ORIGINAL HEIGHT,ft.</u>	<u>FIRST CHANGE, YEAR</u>	<u>HEIGHT,ft.</u>	<u>SECOND CHANGE, YEAR</u>	<u>PRESENT HEIGHT,ft.</u>
1	234.5	1953	284	1964	263
2	234.5	Removed to ground level in 1953			
3	234.5	1950	284	1964	281.5
4	234.5	Removed to 90 ft. level for ash storage in 1950		Removed to ground level in 1977.	
5	234.5	1948	284	1964	284
6	234.5	1948	284	1964	284

Stack 1 is the most northerly stack.

I hope this information will clarify our phone conversations and aid you in your chart survey.

Very truly yours,

J. F. Glembin
Jerome F. Glembin
Results Engineer
Lakeside Power Plant

cc: D. Haataja
H. Kolbeck



**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration**

Date: June 5, 1978

Reply to
Attn of: Rauck CAM-521

Subject: Cudahy, North Stack of Four.

To: Final Reviewer.

A phone call from Mr Robert Watts of the Rockville Office on May 31, 1978, reiterated our earlier discussions and a possible solution to this problem.

- 1- It is not possible to confirm the geodetic position of this stack by photogrammetric methods. With other control holding in the stereo-model, it will not hold to the G.P. of the north stack, but will hold to the one next south of the north stack.
- 2- Geodesy has affirmed and has recognized the problem and has decided that a verification of its position will be required by field methods.
- 3- The problem is at present in the hands of Mark Maintenance, and until further information is forthcoming the triangulation station will not be shown on the manuscript nor in the report. The four stacks are to be shown in position and their respective positions indicated on an additional Form 76-40.

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7609 (Milwaukee Harbor, Wisconsin)

TP-00266

Burnham Canal ✓
Chicago and ~~Northwestern~~ ^{NORTH WESTERN} (RR) ✓ ^{BW}
Chicago Milwaukee St. Paul and Pacific (RR) ✓
Jones Island ✓
Kinnickinnic River ✓
Lake Michigan ✓
Menomonee River ✓
Milwaukee ✓
Milwaukee ~~Bay~~ ^{HARBOR} ✓ ^{BCE}
Milwaukee River ✓
Municipal Mooring Basin ✓
South Menomonee Canal ✓

Approved by:

Chas. E. Harrington
Chas. E. Harrington
Chief Geographer - C3x8

PHOTOGRAMMETRIC OFFICE REVIEW
TP - 00266

1. PROJECTION AND GRIDS LON		2. TITLE LON		3. MANUSCRIPT NUMBERS LON		4. MANUSCRIPT SIZE LON	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LON				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA	
8. BENCH MARKS NA		9. PLOTTING OF SEXTANT FIXES LON		10. PHOTOGRAMMETRIC PLOT REPORT ACR		11. DETAIL POINTS LON	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE LON		13. LOW-WATER LINE NA		14. ROCKS, SHOALS, ETC. LON		15. BRIDGES LON	
16. AIDS TO NAVIGATION LON		17. LANDMARKS LON		18. OTHER ALONGSHORE PHYSICAL FEATURES LON		19. OTHER ALONGSHORE CULTURAL FEATURES LON	
PHYSICAL FEATURES							
20. WATER FEATURES LON				21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA	
23. STEREOSCOPIC INSTRUMENT CONTOURS NA		24. CONTOURS IN GENERAL NA		25. SPOT ELEVATIONS NA		26. OTHER PHYSICAL FEATURES LON	
CULTURAL FEATURES							
27. ROADS LON		28. BUILDINGS LON		29. RAILROADS LON		30. OTHER CULTURAL FEATURES LON	
BOUNDARIES							
31. BOUNDARY LINES NA				32. PUBLIC LAND LINES NA			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES LON				34. JUNCTIONS LON		35. LEGIBILITY OF THE MANUSCRIPT LON	
36. DISCREPANCY OVERLAY LON		37. DESCRIPTIVE REPORT LON		38. FIELD INSPECTION PHOTOGRAPHS None		39. FORMS LON	
40. REVIEWER <i>L. O. Neterer, Jr.</i> L. O. Neterer, Jr.				SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.			
8/10/77							
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 J. Roderick <i>J. Roderick</i> 1/78				SUPERVISOR <i>Albert C. Rauck, Jr.</i>			
Reviewer: L. O. Neterer, Jr. <i>L. O. Neterer, Jr.</i> 2/78				Albert C. Rauck, Jr.			
43. REMARKS See Form 76-36C, Item #8.							

FIELD EDIT REPORT
Job CM-7609
TP-00266
Milwaukee, Wisconsin

October, 1977

51. METHODS

The field edit investigation was conducted during the period of 11-16 October 1977. The inspection was accomplished by driving the main public roads, walking, and by boat. All field edit notes appear on the field edit ozalid and on photographs 76 Z C4404 and 4441 through 4443.

The aerial cables (see Chart 14924) over the Kinnickinnic River, near West Becher Street, remain in place and the cable ends were identified.

The tunnel (see Chart 14924) under the Menomonee River, just east of Interstate Highway 94, is a steam tunnel and signs nearby indicates that it is well below the river bottom. The ends of the steam tunnel were identified as requested.

The ferry crossing (see Chart 14924) in question is owned by the City and is used for transporting Disposal Plant workers to and from their job site. The terminal ends were identified as requested.

The existing charted pipelines into Lake Michigan will have to be carried forward from the existing chart. The city officials do not release this information for water security reasons.

The bridge arch identified on the photograph should be reflected to the new chart as a visual feature to aid the mariner.

The tank farms and buildings on Jones Island were deleted as they are obscured from seaward by the piers of the new overhead Interstate Highway and have lost their charting value. Numerous other buildings have been deleted because of their lack of charting value. *SEE PARAGRAPH TWO, PAGE 11a*

There are 22 photographs being furnished with the data to support the field edit for landmark buildings and aids. The majority were

taken from Seaward and cover the north half of the sheet.

52. ADEQUACY OF COMPILATION

There was no field inspection prior to compilation. After the application of the field edit notes, the manuscript will be adequate.

53. MAP ACCURACY

There was no accuracy checks performed during the field edit.

56. GEOGRAPHIC NAMES

No discrepancies were noted while field editing this sheet.

*THE FIELD EDITOR CLARIFIED THE PROPER IDENTIFICATION OF
"MILWAUKEE HARBOR"*

57. LANDMARKS AND AIDS TO NAVIGATION

The aids to navigation compiled on the manuscript were visited and verified. The remaining aids were positioned by the Revisory Section of the Atlantic Hydrographic Party. Their Forms 76-40, along with the corrected forms, are being submitted. Landmarks are to be carried forward as indicated on the Form's 76-40 being submitted with the data.

58. FIELD EDIT

The field edit was performed by Junior V. Teater and CDR Jeffrey G. Carlen, NOAA, in October 1977.

Respectfully submitted,

Junior V. Teater
Chief, Coastal Surveys Section

Replaces C&GS Form 567.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
NONFLOATING AIDS OR MARKERS 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
Wisconsin

LOCALITY
Lake Michigan
Milwaukee Harbor

DATE
Jan. 1978

OPR PROJECT NO. HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

JOB NUMBER
CM-7609

SURVEY NUMBER
TP-00266

DATUM
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				METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
		LATITUDE		LONGITUDE		OFFICE	FIELD	
		D.M. Meters	° /	D.P. Meters	//			
LIGHT	North Point Light (Milwaukee North Point Light, 1953)	43 03	87 52	56.001	1728.1	76Z(C)4441 May 4, 1976	F-V-Vis. Oct. 13, 1977	14924
LIGHT	Milwaukee Intake Crib Obstruction Light	43 03	87 51	32.79	1012	"	F-3-6-L Oct. 14, 1977	"
LIGHT *	McKinley Park Light. (Priv. maint. May 15--Oct. 15)					Not visible on photos	Not in place at time of edit.	"
LIGHT	McKinley Park Jetty Light	43 02	87 52	46.13	1423	76Z(C)4441 May 4, 1976	F-3-6-L Oct. 13, 1977	"
LIGHT	(Milwaukee North Entrance Light, 1953)	43 02	87 52	37.033	1142.8	"	F-V-Vis. Oct. 14, 1977	"
LIGHT	(Milwaukee Breakwater Light, 1953)	43 01	87 52	36.992	1141.5	76Z(C)4442 May 4, 1976	F-V-Vis. Oct. 13, 1977	"
LIGHT	(Milwaukee Breakwater Entrance, Southside Light, 1953)	43 01	87 52	31.407	969.2	"	"	"
LIGHT	(Milwaukee Pierhead Light, 1953)	43 01	87 53	33.378	1030.0	"	"	"
LIGHT	(Milwaukee South Pierhead Light, 1953)	43 01	87 53	29.59	913.1	"	"	"
LIGHT	Milwaukee City Pier South Slip Light 2	43 01	87 53	19.72	608	"	F-3-6-L Oct. 14, 1977	"

* Not in place at time of field edit.

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

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

STATE
Wisconsin

LOCALITY
Lake Michigan
Milwaukee Harbor

DATE
Jan. 1978

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

NONFLOATING AIDS AND MARKS FOR CHARTS

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.)	LATITUDE		LONGITUDE		OFFICE (See instructions on reverse side)	FIELD	CHARTS AFFECTED	
		°	'	°	'				D.P. Meters
		N.A. 1927							
		DATUM							
		JOB NUMBER							
		SURVEY NUMBER							
		CM-7609							
		TP-00266							
		43 01		87 53		76Z(C)4442 May 4, 1976	F-3-6-L Oct. 14, 1977	14924	
LIGHT	Milwaukee City Pier South Slip Light 1	43 01	16.70	87 53	40.72				
LIGHT	Milwaukee City South Pier No. 2 North Light	43 01	10.00	87 53	37.73				
LIGHT	Milwaukee City South Pier No. 2 South Light	43 01	04.84	87 53	35.02				
LIGHT	Milwaukee Tanker Pier Light	43 00	51.98	87 53	28.24	76Z(C)4443			
LIGHT	(Milwaukee South Entrance Light, 1953)	43 00	30.047	87 52	35.428		F-V-Vis. Oct. 14, 1977		
LIGHT	Milwaukee South Disposal Area Light 2	43 00	17.28	87 53	03.70		F-3-6-L Oct. 14, 1977		
LIGHT	South Shore Park Breakwater Light	43 00	08.87	87 53	05.35				
			274		121				

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT
(If field party, ship or office)
Coastal Mapping Div. - Wisconsin
AMC Norfolk, Va.

STATE

LOCALITY
Lake Michigan
Milwaukee Harbor

DATE
Jan. 1978

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

NON-ELEVATING AIDS OR LANDMARKS FOR CHARTS

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 BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO. _____ DATUM N.A. 1927

HAVE NOT
JOB NUMBER SURVEY NUMBER
CM-7609 TP-00226

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	CHARTS AFFECTED
		° /	D.M. Meters	° /	D.P. Meters			
ELEVATOR SHAFT	Elevator Shaft Atop Building	43 03	03.63 112	87 53	29.82 675	76Z(C)4441 May 4, 1976	F-P-5-L 76Z(C)4441 Oct. 13, 1977	14924
ELEVATOR SHAFT	Peak On Elevator Shaft, Water Purification Plant	43 04	20.54 634	87 51	55.82 1263	76Z(C)4440 "	" "	"
OBSTR. LIGHT	Obstruction Light On Top Of Building.	42 59	31.24 964	87 53	12.58 285	76Z(C)4444 May 4, 1976	F-3-6-L Oct. 14, 1977	"
STACK		43 03	19.86 613	87 54	05.92 134	76Z(C)4441 May 4, 1976	F-V-Vis. Oct. 14, 1977	"
STACK		43 03	17.53 541	87 54	20.46 463	" "	" "	"
TWIN STACKS	Northeasterly Of Two	43 02	57.00 1759	87 54	45.60 1032	" "	" "	"
TWIN STACKS	Southwesterly Of Two	43 02	56.77 1752	87 54	45.86 1038	" "	" "	"
TOWER		43 02	00.19 06	87 56	30.52 691	76Z(C)4404 "	" "	"
STACK		43 02	06.12 189	87 54	55.88 1265	76Z(C)4442 "	" "	"

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

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
 Coastal Mapping Div., Wisconsin
 AMC Norfolk, Va.

LOCALITY
 Lake Michigan
 Milwaukee Harbor

DATE
 Jan. 1978

OPR PROJECT NO.
 CM-7609

DATUM
 N.A. 1927

METHOD AND DATE OF LOCATION
 (See instructions on reverse side)

CHARTING NAME	DESCRIPTION (Record reason for definition of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	POSITION		LONGITUDE // D.P. Meters	OFFICE	FIELD	CHARTS AFFECTED
		LATITUDE D.M. Meters	LONGITUDE ° /				
ELEVATOR SHAFT	Elevator Shaft Atop Building	43 03	87 53	29.82 675	76Z(C)4441 May 4, 1976	F-P-5-L 76Z(C)4441 Oct. 13, 1977	14924
ELEVATOR SHAFT	Peak On Elevator Shaft, Water Purification Plant	43 04	87 51	55.82 1263	"	"	"
OBSTR. LIGHT	Obstruction Light On Top Of Building.	42 59	87 53	12.58 285	76Z(C)4441 May 4, 1976	F-3-6-L Oct. 14, 1977	"
STACK		43 03	87 54	05.92 134	76Z(C)4441 May 4, 1976	F-V-Vis. Oct. 14, 1977	"
STACK		43 03	87 54	20.46 463	"	"	"
TWIN STACKS	Northeasterly Of Two	43 02	87 54	45.60 1032	"	"	"
TWIN STACKS	Southwesterly Of Two	43 02	87 54	45.86 1038	"	"	"
TOWER		43 02	87 56	30.52 691	76Z(C)4404 "	"	"
STACK		43 02	87 54	55.88 1265	76Z(C)4442 "	"	"

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

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

STATE
Wisconsin

LOCALITY
Lake Michigan
Milwaukee Harbor

DATE
Jan. 1978

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NON-FLUORESCENT AIDS OR LANDMARKS FOR CHARTS

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)

OPR PROJECT NO. CM-7609
JOB NUMBER TP-00266
DATUM NA 1927

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

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

CHARTING NAME
R. MAST
CUPOLA
STACK
STACK
STACK
STACK
R. MAST

U.S. Coast Guard Base
St. Marys Academy

Wisconsin Electric Power Co.,
Next south of North Stack
Wisconsin Electric Power Co.,
Next North of South Stack
Wisconsin Electric Power Co.,
South Stack of Four

LATITUDE
43 00
42 59
42 59
42 58
42 58
43 01

D.M. Meters
03.4
106
304
19.9
616
38.7
1196

LONGITUDE
87 53
87 52
87 53
87 51
87 51
87 52

D.P. Meters
17.4
395
14.0
316
22.1
501
23
22
21
57.0
612

OFFICE
Delete
Oct. 1977
"
"
"
"
"
"
"
"
"
"

CHARTS AFFECTED
14924
"
"
"
"
"
"
"
"
"
"

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

CHARTING NAME	DESCRIPTION <small>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)</small>	LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION <small>(See instructions on reverse side)</small>	CHARTS AFFECTED		
		° /	//	° /	//			OFFICE	FIELD
REPORTING UNIT <small>(Field Party, Ship or Office)</small> Coastal Mapping Div., Wisconsin AMC Norfolk, Va.		STATE Wisconsin		LOCALITY Lake Michigan Milwaukee Harbor		DATE Jan. 1978			
OPR PROJECT NO.		JOB NUMBER CM-7609		DATUM NA 1927		(See reverse for responsible personnel)			
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.		SURVEY NUMBER TP-00266							
R. TOWER	3 vertical lights	43 03	39.7 1226	87 54	10.1 229	Delete Oct. 1977	14924		
STACK	Marquette Cement Mfg. Co.	43 01	47.6 1468	87 55	10.7 243	" "	" "		
STACK	P. and V. Atlas Industrial Center, Inc.	43 01	40.7 1257	87 55	13.4 304	" "	" "		
SPIRE		43 01	30.3 935	87 54	56.0 1268	" "	" "		
STACK	Sewage disposal plant	43 01	23	87 54	05	" "	" "		
R. MAST	Harbor Master Dock	43 01	07	87 54	04	" "	" "		
FLARE	Milwaukee Solvay Coke Co.	43 00	53	87 54	28	" "	" "		
STACK	Milwaukee Solvay Coke Co.	43 00	49	87 54	27	" "	" "		
STACK	Milwaukee Solvay Coke Co.	43 00	46	87 54	28	" "	" "		
SPIRE		43 00	43.5 1345	87 55	22.2 502	" "	" "		

- 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)

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT
 (Field Party, Ship or Office)
 Coastal Mapping Div. Wisconsin

STATE
 Wisconsin

LOCALITY
 Lake Michigan
 Milwaukee Harbor

DATE
 Jan, 1978

U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NON-FLOATING AID TO NAVIGATION LANDMARKS FOR CHARTS

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 BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.
 HAVE NOT BEEN INSPECTED

CHARTING NAME	DESCRIPTION <small>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)</small>	DATUM			POSITION	METHOD AND DATE OF LOCATION <small>(See instructions on reverse side)</small>		CHARTS AFFECTED
		LATITUDE		LONGITUDE		OFFICE	FIELD	
		D.M. Meters	D.P. Meters					
REV. SIGN		43 02	18.73	87 55	76Z(C) 4404 May 4, 1976	F-V-Vis. Oct. 14, 1977	14924	
TV TOWER	Four vertical lights	43 02	18.31	87 55	76Z(C) 4442 "	" Oct. 13, 1977	"	
R. TOWER	Three vertical lights	43 02	20.09	87 54	"	"	"	
R. TOWER	(Milwaukee, Radio Station WFOX, Mast, 1953)	43 02	20.422	87 54	"	"	"	
BEACON	Weather Forecasting Beacon (Gas, 1953)	43 02	21.319	87 54	"	"	"	
BEACON	Beacon light on top of building	43 02	17.86	87 54	"	"	"	
STACK		43 01	42.87	87 54	"	"	"	
TANK		43 01	42.58	87 54	"	"	"	
STACK	Wisconsin Electric Power Co. (Western of two)	43 01	48.87	87 55	76Z(C) 4404 "	"	"	
STACK	Wisconsin Electric Power Co. (Eastern of two)	43 01	48.87	87 55	"	"	"	

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

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

STATE
Wisconsin

LOCALITY
Lake Michigan
Milwaukee Harbor

DATE
Jan. 1978

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

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

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)

OPR PROJECT NO.

JOB NUMBER
CM-7609

SURVEY NUMBER
TP-00266

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

LONGITUDE

OFFICE

FIELD

CHARTS
AFFECTED

STACK

Northern of Two

43 03

87 53

30.89
699

76Z(C) 4441
May 4, 1976

14924

STACK

Southern of Two

43 03

87 53

30.93
700

"

"

TOWER

(Milwaukee Waterworks, Park
Water Tower, 1953)

43 03

87 52

47.226
1068.7

"

Oct. 13, 1977

"

TANK

A.F. Gallun and Sons Corp.

43 03

87 54

04.29
97

"

Oct. 14, 1977

"

STACK

Pfister and Vogel Tanning Co. Inc.

43 03

87 54

24.83
562

"

Oct. 13, 1977

"

STACK

(Milwaukee Wisconsin Electric
Co., Stack, 1953)

43 02

87 54

47.194
1068.1

"

Oct. 14, 1977

"

STACK

Milwaukee Electric Power Co.

43 02

87 54

41.53
940

76Z(C) 4442
May 4, 1976

"

DOME

(Milwaukee City Hall Dome, 1953)

43 02

87 54

34.396
778.6

"

Oct. 14, 1977

"

CHIMNEY

(Milwaukee Wisconsin Tower
Building, Tower, 1953)

43 02

87 54

40.86
925

"

"

R. TOWER

(Milwaukee Wisconsin Tower
Building, Tower, 1953)

43 02

87 55

09.147
207.1

76Z(C) 4404

"

Oct. 13, 1977

NOAA Form 76-40
(8-74)

Replaces C&GS Form 367.

- TO BE CHARTED
- TO BE REVISED
- TO BE DELETED

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

STATE
Wisconsin

LOCALITY
Lake Michigan
Milwaukee Harbor

DATE
Jan. 1978

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

NONFLUORESCENT LANDMARKS FOR CHARTS

- 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 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	
		OPR PROJECT NO.	CM-7609			N. A. 1927	LATITUDE D.M. Meters	LONGITUDE D.P. Meters	OFFICE	FIELD	DATE		
											42 59		87 52
STACK	St. Mary's Academy	42 59	87 52	TP-00266	07.26 224	14.87 337	76Z(C)4444 May 4, 1976	F-V-Vis. Oct. 12, 1977	14924				
2 VERT. LIGHTS		42 59	87 53		57.13 1763	17.22 390	76Z(C)4443 May 4, 1976	"	"				
DOME	St. Francis Seminary	42 58	87 52		56.13 1732	15.67 355	76Z(C)4444 "	"	"				
STACK	St. Francis Seminary	42 58	87 52		54.02 1667	18.72 424	"	"	"				
STACK	(Milwaukee, Municipal Garbage Disposal Plant, Stack, 1953)	43 01	87 54		17.55 541.8	05.05 114.5	76Z(C)4442 "	"	"				
ELEVATOR SHAFT	Elevator Shaft Atop Grain Elevator	43 00	87 54		43.75 1350	07.28 165	76Z(C)4443 "	F-P-5-L 76Z(C)4443 Oct. 13, 1977	"				
CLOCK TOWER	Clock Tower Atop Allen Bradley Company Building	43 01	87 54		06.82 210	46.18 1046	76Z(C)4442 May 4, 1976	F-V-Vis. Oct. 13, 1977	"				
CUPOLA	(Milwaukee, Cudahy Tower Apartments, Cupola, 1953)	43 02	87 53		28.61 883.1	58.60 1326.9	"	"	"				
ELEVATOR SHAFT	Elevator Shaft Atop Building	43 02	87 53		37.14 1146	59.42 1345	76Z(C)4441 May 4, 1976	F-P-5-L 76Z(C)4441 Oct. 13, 1977	"				

*

NOAA FORM 76-40
(8-74)

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
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 - COAST PILOT BRANCH
- (See reverse for responsible personnel)

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

STATE

Wisconsin

LOCALITY

Milwaukee Harbor

DATE

Jun 1978

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

DATUM

N.A. 1927

POSITION

TP-00266

SURVEY NUMBER

CM-7609

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

CHARTING NAME

LATITUDE

D.M. Meters

° /

LONGITUDE

° /

D.P. Meters

OFFICE

FIELD

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

CHARTS AFFECTED

one

North of ~~first~~ of four stacks

from north

Second of four stacks

from north

Third of four stacks

from north

Fourth of four stacks

42-58

36.0

87-51

23.6

75B(P) 5668

F-V-Vis.

14924

42-58

35.0

87-51

22.6

75B(P) 5668

F-V-Vis.

14924

42-58

33.8

87-51

21.8

75B(P) 5668

F-V-Vis.

14924

42-58

32.9

87-51

21.0

75B(P) 5668

F-V-Vis.

14924

1014

476

10/02/75

10/12/77

REVIEW REPORT
TP-00266

SHORELINE

June 22, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

Photography flown for this job in April and May, 1976 was not sufficient in that it does not cover the shoreline of Lake Michigan to the southernmost limit of this map. That stretch of shoreline extends about 3000 ft. from the southern limit of this map. It was compiled during the application of field edit from photography flown in October, 1975. See "Addendum to the Compilation Report", pages 11a and 11b of this Descriptive Report.

Ratio photographs supplied to the compilation office are very small. This required large shifts between points to locate details.

The field editor recommended that many of the buildings shown on the Class III Map be deleted. A personal discussion between him and the compilation office resulted in the retention of those buildings on the map as map features. The deletion notes on the field edit ozalid were thus ignored.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boatsheets H-9703 (HSB-10-3-77), H-9702 (HSB-5-6A-77) and H-9702 (HSB-5-6B-77).

Boatsheet H-9702 (HSB-5-6A-77) shows three piers on the south side of the South Shore Yacht Club. It indicates the most seaward of the three is new, apparently constructed since photography. The field editor makes no mention of it. It is not shown on the map.

The water penetration quality of the photography is very poor. The field editor did not submit data on offshore features. Therefore, offshore rocks shown on the boatsheets are not shown on the map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 14924, 21st edition, dated July 12, 1975, 1:10,000 scale.

The lack of water penetration rendered submerged features invisible on the photographs. Consequently, submerged features such as rocks and submerged piles shown on the chart are not visible on the photographs.

It was ~~noted~~^{stated} by the field editor that piles charted just south of the W. Becher St. Bridge and just east of the S. Muskego Ave. Bridge do not exist.

Many differences were noticed in the positions of portions of the shoreline and other features (buildings, piers, landmarks etc.). However, all features having published geographic positions agree well.

Positions of features on the map are an accurate update of currently charted features.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for Bureau Standards and The National Standards of Map Accuracy.

Submitted by:

A. L. Shands
A. L. Shands
Final Reviewer

Approved for forwarding::

Billy H. Barnes acting
Chief, Photogrammetric Branch, AMC

Approved: *MD*
John D. Perrau Jr.
Chief, Photogrammetric Branch

W. J. York FOR
Chief, Coastal Mapping Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00266

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	REMARKS
14924	4/27/78	Mark J. Fries Stephen Alward	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>Revised landmarks & shoreline</i>
14904	11/21/78	Mark J. Fries	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>Exam - no cor's at this time</i> <i>Reconsider for application if chart is reconstructed</i> Full Part After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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