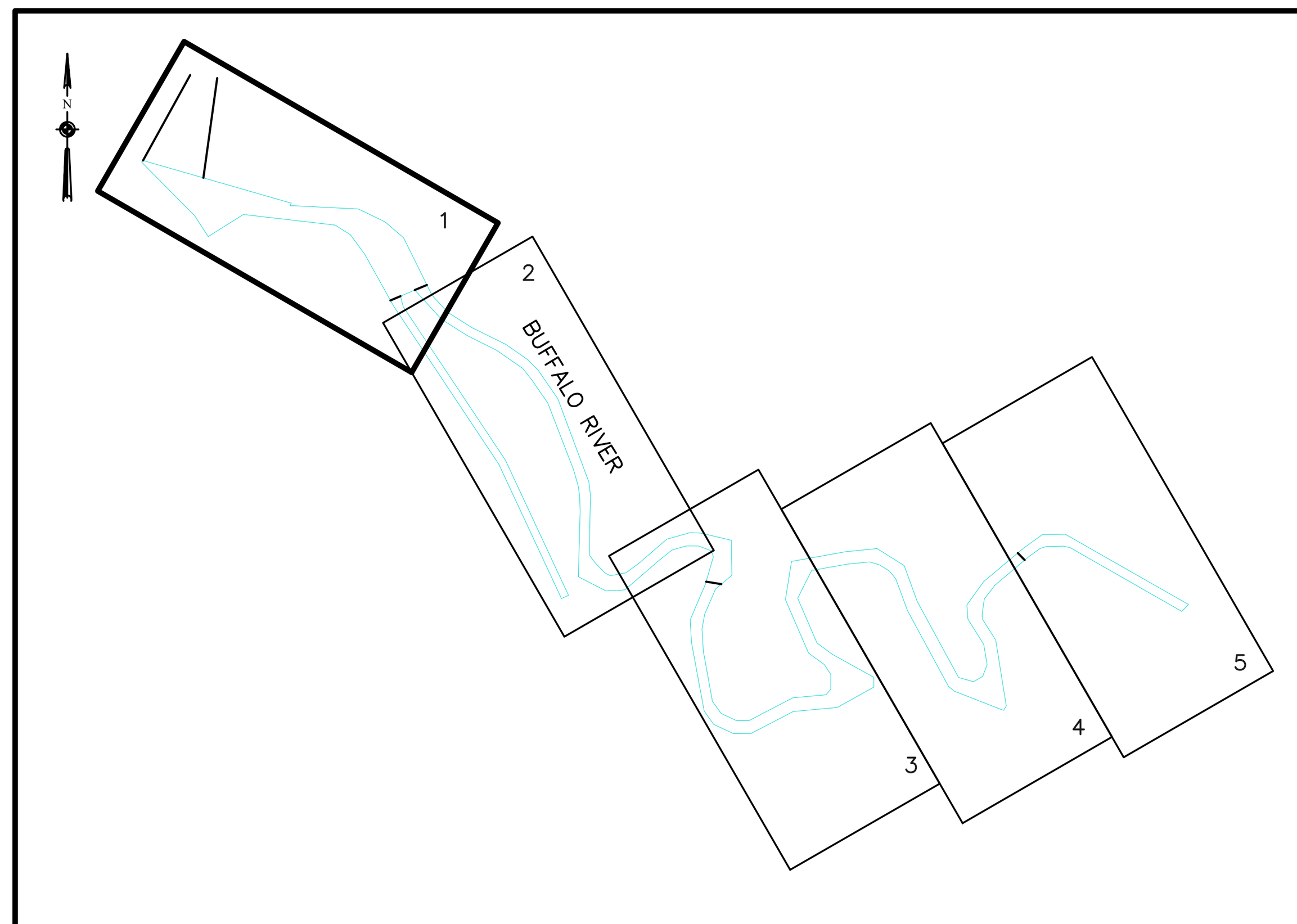


SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

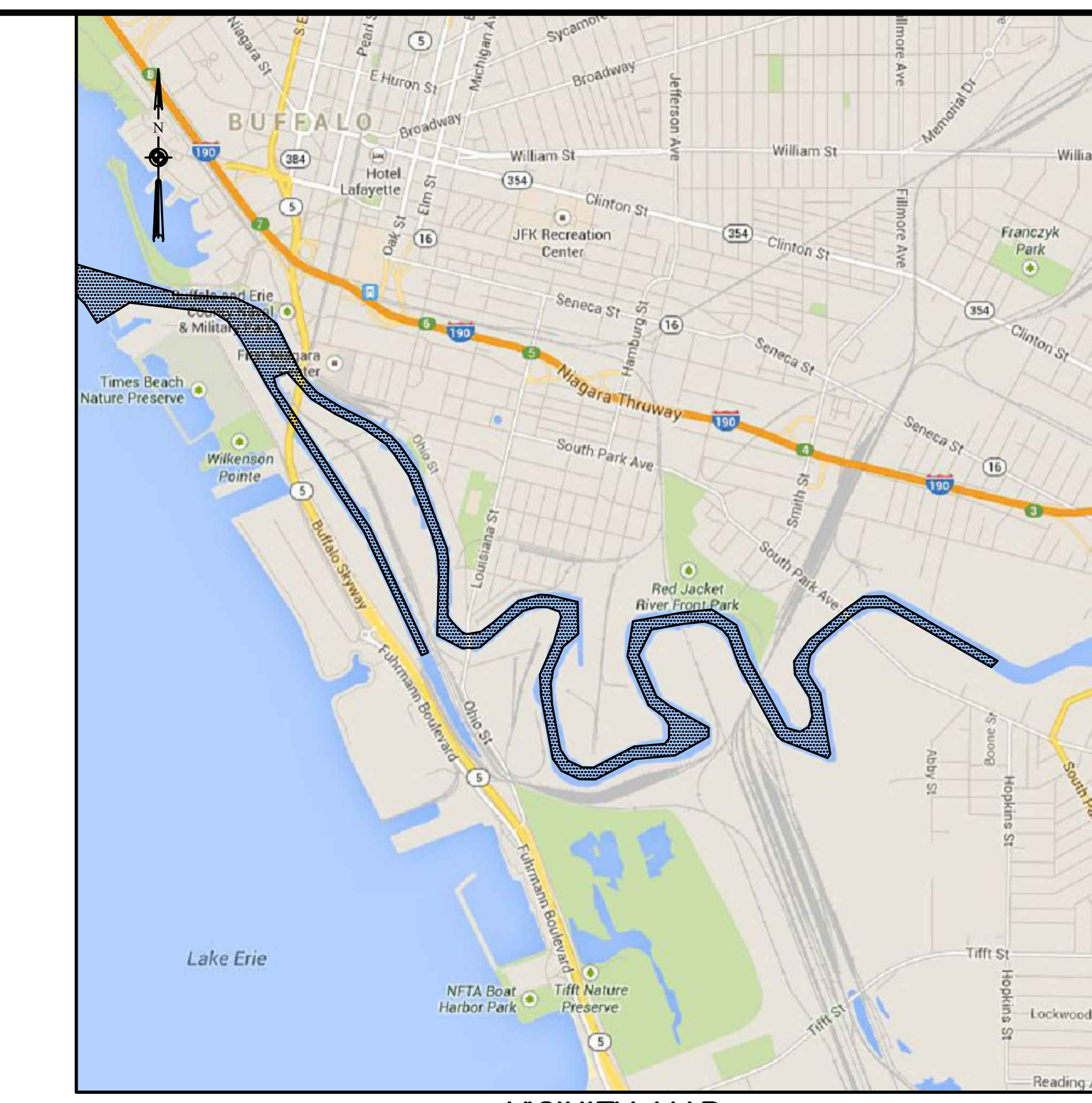
(red)	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
(green)	DEPTHS AT OR BELOW PROJECT DEPTH
XX.X	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00	CHANNEL STATIONING
⊙ 417	CHANNEL CORNER
◎ H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
	CAN BUOY
	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
	SUBMERGED WRECK

SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS SHOWN ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD 85) (EPSG: 5609).
2. HORIZONTAL COORDINATES AND DISTANCES SHOWN ARE U.S. SURVEY FEET REFERRED TO NORTH AMERICAN DATUM 1983/2011 (NAD83/11) NEW YORK STATE PLANE COORDINATE SYSTEM – WEST ZONE (EPSG: 6541)
3. SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 20' X 20' HYPACK MATRIX.
4. SOUNDINGS FROM STA 275+00 TO 295+21 WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY J. PETIT AND PARTY ON MAY 29, 2026 USING:
   GPS POSITIONING, SEPTENTRIO ASTERX-4 W/RTK TIDES
   SONAR HEAD: 450 KHZ, PING DSP3DSS-DX-450
   0.4 DEGREE BEAM WIDTH
   HEAVE PITCH AND ROLL; SBG ELLIPSE-3
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "SMOKERCRAFT"
5. SOUNDINGS FROM STA 71+00 TO 275+00 AND 00+00A TO 55+48A WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. HERBERT AND PARTY ON MAY 26, 2026 USING:
   GPS POSITIONING, POS-MV VER. 5 W/RTK TIDES
   SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULITBEAM
   1.0 DEGREE BEAM WIDTH 150 DEGREE ARC
   HEAVE PITCH AND ROLL; APPLANIX POS-MV VER. 5
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "WITMER"
6. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.
7. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003.
8. THIS PROJECT WAS DESIGNED BY THE BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.



VICINITY MAP
"NOT TO SCALE"

CHANNEL CORNERS COORDINATES

POINT	NORTHING	EASTING
415	1049631.64	1064567.25
417	1048768.96	1065421.52
1610	1048433.06	1065638.72
1611	1048787.01	1066207.77
454	1048617.72	1067682.68
456	1048461.68	1067930.07
458	1048147.02	1068162.50
451C	1047471.89	1068738.78
460	1047315.42	1068624.06
553C	1047302.03	1068783.53
462	1047569.67	1068968.67
459	1048412.95	1068786.74
457	1048668.80	1068488.83
455	1048877.00	1068058.17
453	1048930.79	1066959.22
429	1048969.88	1066977.64
428	1049377.08	1065561.77
426A	1049629.04	1064687.22
426	1049656.71	1064591.12
415A	1049560.64	1064637.67



US Army Corps of Engineers Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: JDP
Checked by: DMD
Reviewed by: Aaron C. Kennerly, PLS, Chief, Survey Section
Approved by: Vincent M. Lovullo, Chief, NY/PA Navigation and Maintenance Section
Date: July 2, 2026

To download an electronic version of this map, point a web browser to https://navigation.usace.army.mil/survey/hydro/

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207-3199

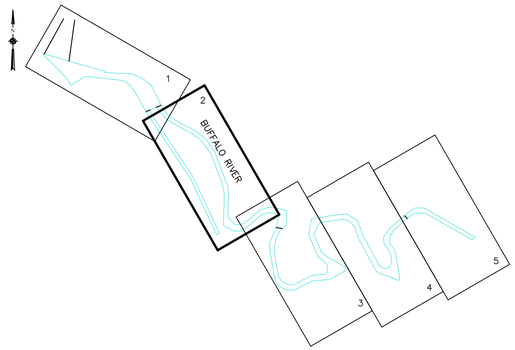
BUFFALO RIVER
BUFFALO, NY

PROJECT CONDITION SOUNDINGS 2026

SCALE: 1"=200'

Sheet reference number
VH-101
Sheet 1 of 5

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SOUNDING COLOR LEGEND

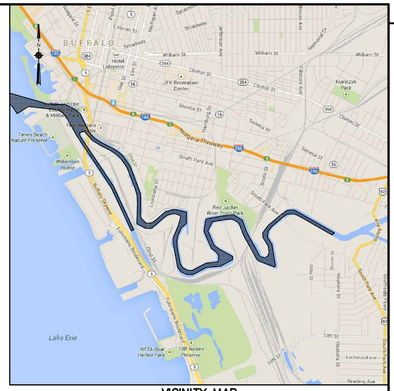
	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
XX.X	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00	CHANNEL STATIONING
○ 417	CHANNEL CORNER
◎ H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
	CAN BUOY
	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
	SUBMERGED WRECK

SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS SHOWN ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD 85) (EPSG:5609).
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3. SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 20' X 20' HYPACK MATRIX.
4. SOUNDINGS FROM STA 71+00 TO 275+00 AND 00+00A TO 55+48A WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. HERBERT AND PARTY ON MAY 26, 2026 USING:
   GPS POSITIONING, POS–MV VER. 5 W/RTK TIDES
   SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULITBEAM
   1.0 DEGREE BEAM WIDTH 150 DEGREE ARC
   HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "WITMER"
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7. THIS PROJECT WAS DESIGNED BY THE BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110–1–8152.

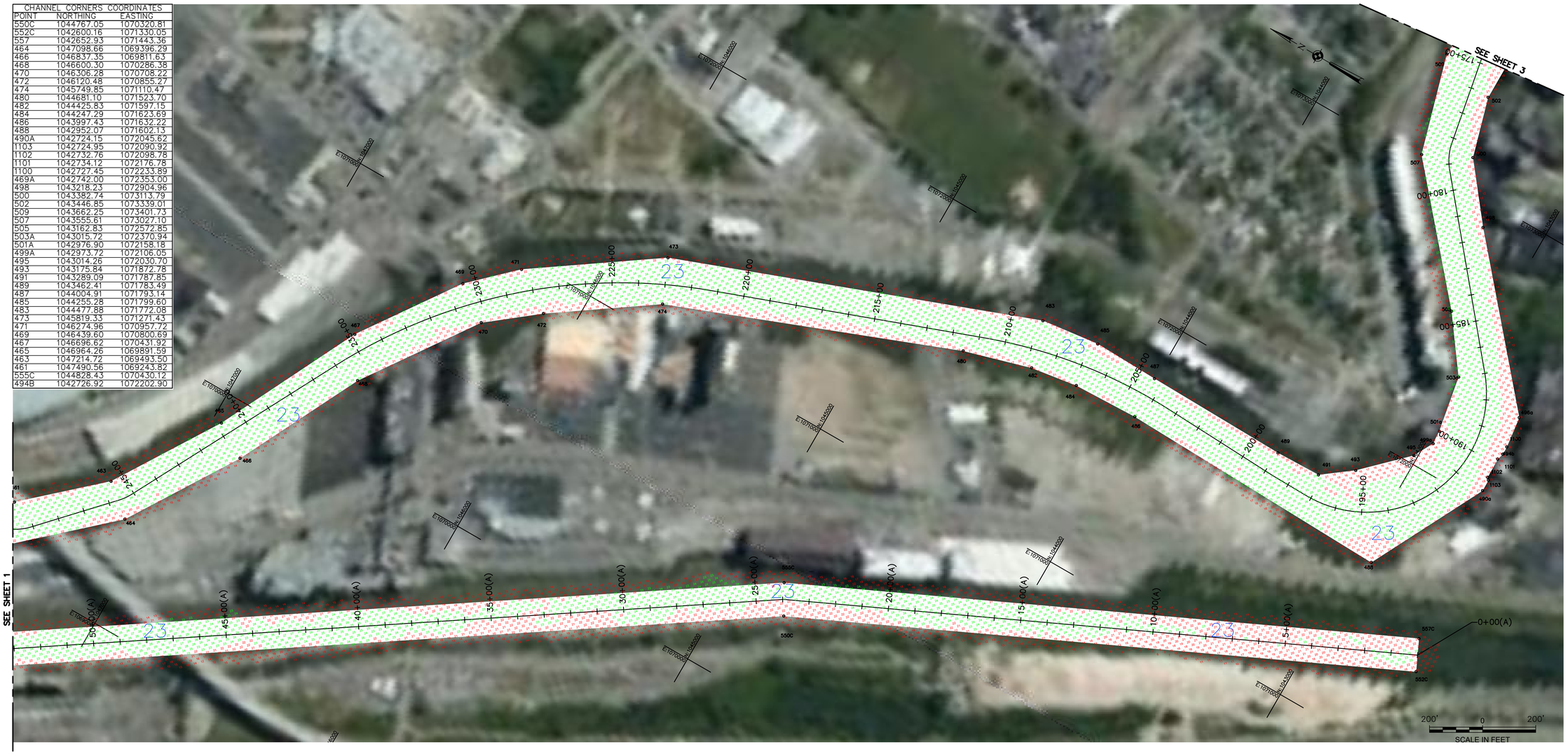


VICINITY MAP
"NOT TO SCALE"

SHEET INDEX
"NOT TO SCALE"

CHANNEL CORNERS COORDINATES

POINT	NORTHING	EASTING
550C	1044767.05	1070320.81
552C	1042600.16	1071330.05
557	1042652.93	1071443.36
464	1047098.66	1069396.29
466	1046837.35	1069811.63
468	1046600.30	1070286.38
470	1046306.28	1070708.22
472	1046120.48	1070855.27
474	1045749.85	1071110.47
480	1044681.10	1071523.70
482	1044425.83	1071597.15
484	1044247.29	1071623.69
486	1043997.43	1071632.22
488	1042952.07	1071602.13
490A	1042724.15	1072045.62
1103	1042724.95	1072090.92
1102	1042732.76	1072098.78
1101	1042734.12	1072176.78
1100	1042727.45	1072233.89
469A	1042742.00	1072353.00
498	1043218.23	1072904.96
500	1043382.74	1073113.79
502	1043446.85	1073339.01
509	1043662.25	1073401.73
507	1043555.61	1073027.10
505	1043162.83	1072572.85
503A	1043015.72	1072370.94
501A	1042976.90	1072158.18
499A	1042973.72	1072106.05
495	1043014.26	1072030.70
493	1043175.84	1071872.78
491	1043289.09	1071787.85
489	1043462.41	1071783.49
487	1044004.91	1071793.14
485	1044255.28	1071799.60
483	1044477.88	1071772.08
473	1045819.33	1071271.43
471	1046274.96	1070957.72
469	1046439.60	1070800.69
467	1046696.62	1070431.92
465	1046964.26	1069891.59
463	1047214.72	1069493.50
461	1047490.56	1069243.82
555C	1044828.43	1070430.12
494B	1042726.92	1072202.90



US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

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Drawn by: JDP
Checked by: DMD
Reviewed by: Aaron C. Kennerly, PLS
Chief, Survey Section
Approved by: Vincent M. Lovullo
Chief, NY/PA Navigation and Maintenance Section
Date: July 2, 2026

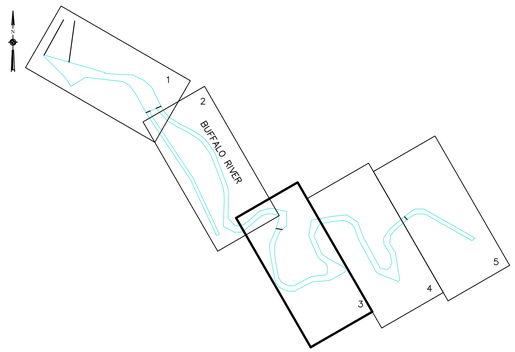
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U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

BUFFALO RIVER
BUFFALO, NY
PROJECT CONDITION SOUNDINGS 2026
SCALE: 1"=200'

Sheet reference number
VH–102
Sheet 2 of 5

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SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND

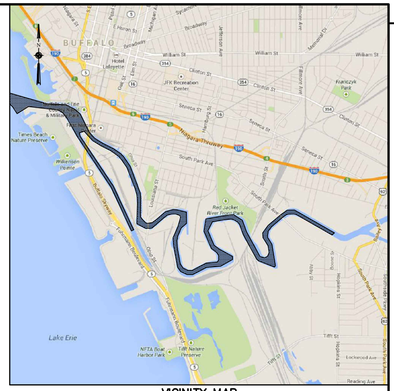
	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
XX.X	PROJECT DEPTH

LEGEND OF SYMBOLS

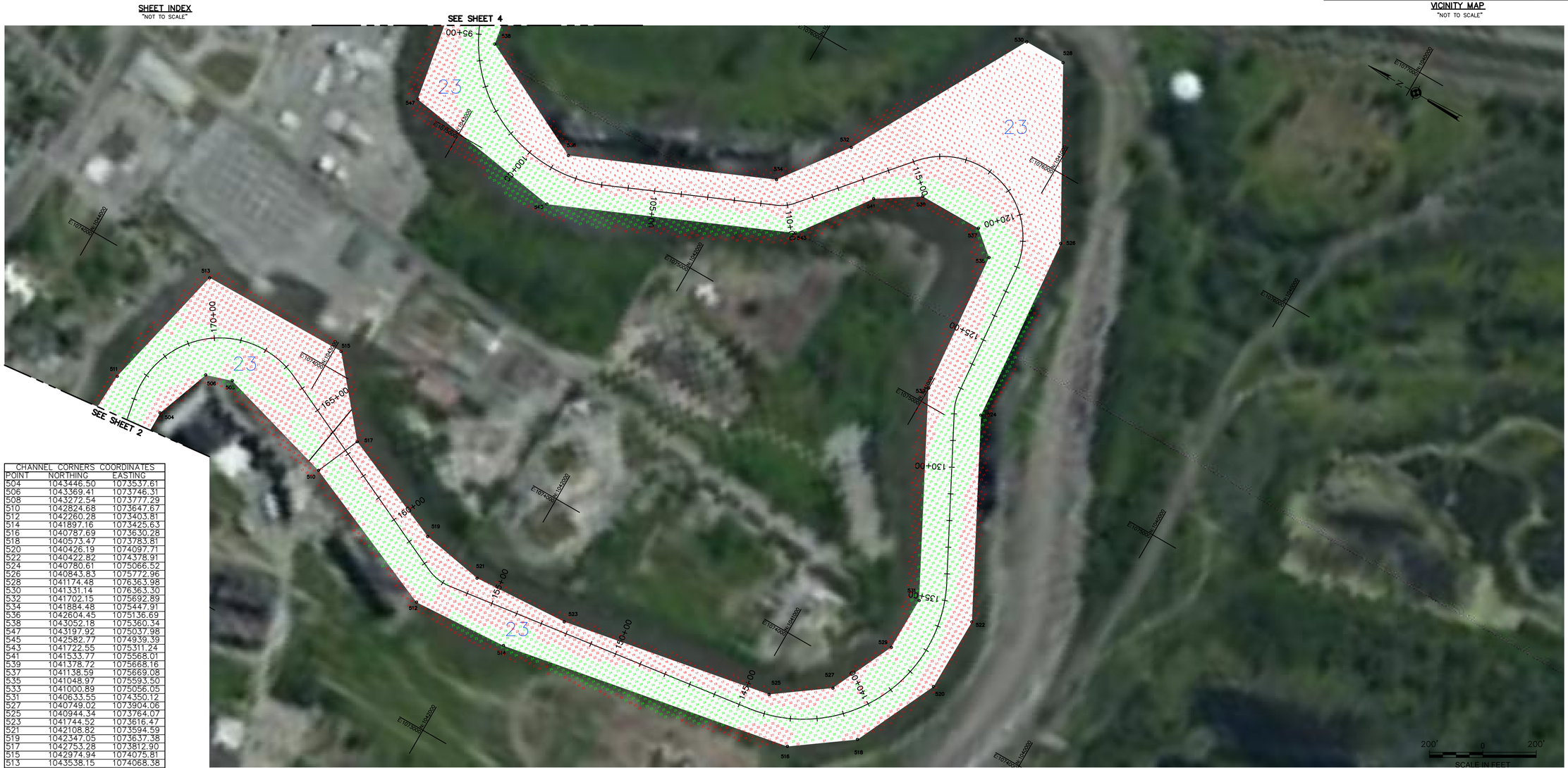
17+00	CHANNEL STATIONING
○ 417	CHANNEL CORNER
◎ H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
	CAN BUOY
	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
	SUBMERGED WRECK

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3. SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 20' X 20' HYPACK MATRIX.
4. SOUNDINGS IN THE TURNING BASIN AT STA 130+00 TO 123+00 WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY J. PETIT AND PARTY ON MAY 29, 2026 USING:
   GPS POSITIONING, SEPTENTRIO ASTERX-4 W/RTK TIDES
   SONAR HEAD: 450 KHZ, PING DSP3DSS-DX-450
   0.4 DEGREE BEAM WIDTH
   HEAVE PITCH AND ROLL; SBG ELLIPSE-3
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "SMOKERCRAFT"
5. SOUNDINGS FROM STA 71+00 TO 275+00 WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. HERBERT AND PARTY ON MAY 26, 2026 USING:
   GPS POSITIONING, POS-MV VER. 5 W/RTK TIDES
   SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULITBEAM
   1.0 DEGREE BEAM WIDTH 150 DEGREE ARC
   HEAVE PITCH AND ROLL; APPLANIX POS-MV VER. 5
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
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VICINITY MAP
"NOT TO SCALE"



CHANNEL CORNERS COORDINATES

POINT	NORTHING	EASTING
504	1043446.50	1073537.61
506	1043369.41	1073746.31
508	1043272.54	1073777.29
510	1042824.68	1073647.67
512	1042260.28	1073403.81
514	1041897.16	1073425.63
516	1040787.69	1073630.28
518	1040573.47	1073783.81
520	1040426.19	1074097.71
522	1040422.82	1074378.91
524	1040780.61	1075066.52
526	1041084.83	1075772.96
528	1041174.48	1076363.98
530	1041331.14	1076363.30
532	1041702.15	1075692.89
534	1041884.48	1075447.91
536	1042604.45	1075136.69
538	1043052.18	1075360.34
547	1043197.92	1075037.98
545	1042582.77	1074939.39
543	1041722.55	1075311.24
541	1041533.77	1075568.01
539	1041378.72	1075668.16
537	1041138.59	1075669.08
535	1041048.97	1075593.50
533	1041000.89	1075056.05
531	1040633.55	1074350.12
527	1040749.02	1073904.06
525	1040944.34	1073764.07
523	1041744.52	1073616.47
521	1042108.82	1073594.59
519	1042347.05	1073637.38
517	1042753.28	1073812.90
515	1042974.94	1074075.81
513	1043538.15	1074068.38
511	1043653.71	1073576.07
529	1040636.01	1074145.83

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by:	JDP
Checked by:	DMD
Reviewed by:	Aaron C. Kennerly, PLS Chief, Survey Section
Approved by:	Vincent M. Lovullo Chief, NY/PA Navigation and Maintenance Section
Date:	July 2, 2026

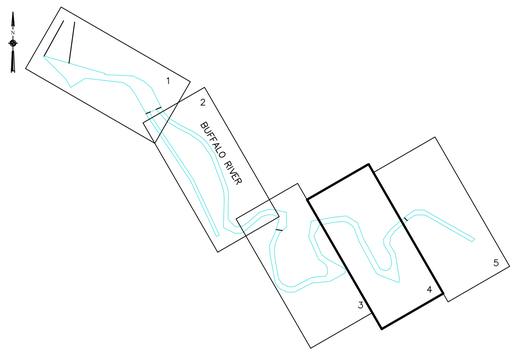
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207-3199

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BUFFALO RIVER
BUFFALO, NY
PROJECT CONDITION SOUNDINGS 2026
SCALE: 1"=200'

Sheet reference number
VH-103
Sheet 3 of 5

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SOUNDING COLOR LEGEND

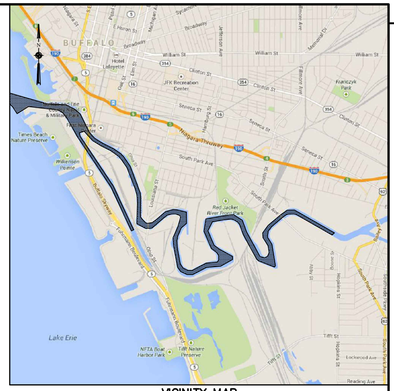
	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
XX.X	PROJECT DEPTH

LEGEND OF SYMBOLS

17+00	CHANNEL STATIONING
○ 417	CHANNEL CORNER
◎ H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
	CAN BUOY
	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
	SUBMERGED WRECK

SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS SHOWN ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD 85) (EPSG:5609).
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3. SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 20' X 20' HYPACK MATRIX.
4. SOUNDINGS FROM STA 00+00 TO 71+00 WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. HENNEBERGER AND PARTY ON MAY 21, 2026 USING:
   GPS POSITIONING, SEPTENTRIO ASTERX–4 W/RTK TIDES
   SONAR HEAD: 450 KHZ, PING DSP3DSS–DX–450
   0.4 DEGREE BEAM WIDTH
   HEAVE PITCH AND ROLL; SBG ELLIPSE–3
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "SMOKERCRAFT"
5. SOUNDINGS FROM STA 71+00 TO 275+00 WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. HERBERT AND PARTY ON MAY 26, 2026 USING:
   GPS POSITIONING, POS–MV VER. 5 W/RTK TIDES
   SONAR HEAD: 200 KHZ, R2 SONIC 2024 MULITBEAM
   1.0 DEGREE BEAM WIDTH 150 DEGREE ARC
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8. THIS PROJECT WAS DESIGNED BY THE BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110–1–8152.



VICINITY MAP
"NOT TO SCALE"

SHEET INDEX
"NOT TO SCALE"

CHANNEL CORNERS COORDINATES

POINT	NORTHING	EASTING
540	1043154.21	1075929.50
542	1043191.02	1076295.98
544	1043144.58	1076452.31
550	1042407.82	1076902.40
552	1041185.93	1077565.98
554	1041108.68	1077657.22
556	1040799.13	1078451.41
558	1040870.15	1078496.65
560	1041931.76	1078325.26
562	1042268.30	1078114.00
564	1042344.95	1078105.13
566	1042595.17	1078143.05
568	1042815.82	1078313.20
571	1042874.16	1078133.75
569	1042498.97	1077861.85
567	1042266.68	1077878.86
565	1041859.79	1078134.30
561	1041346.55	1078115.33
559	1041260.78	1077968.55
557	1041328.00	1077727.79
555	1042554.15	1077061.90
553	1043130.68	1076851.93
551	1043404.45	1076415.93
549	1043352.85	1075902.27
549	1043352.85	1075902.27
546	1043042.26	1076615.76
548	1042918.30	1076715.94
A	1041533.48	1078186.98



US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: JDP
Checked by: DMD
Reviewed by: Aaron C. Kennerly, PLS
Chief, Survey Section
Approved by: Vincent M. Lovullo
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Date: July 2, 2026

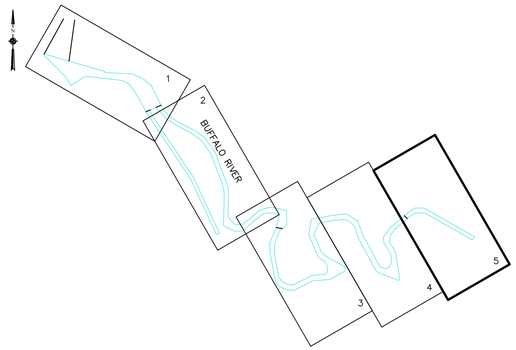
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U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

BUFFALO RIVER
BUFFALO, NY
PROJECT CONDITION SOUNDINGS 2026
SCALE: 1"=200'

Sheet reference number
VH–104
Sheet 4 of 5

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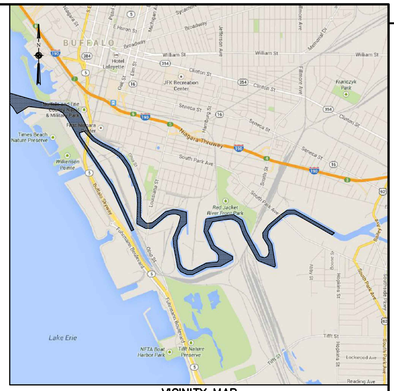
SHEET INDEX
"NOT TO SCALE"

SOUNDING COLOR LEGEND	
	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
	DEPTHS AT OR BELOW PROJECT DEPTH
XX.X	PROJECT DEPTH

LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
○ 417	CHANNEL CORNER
◎ H.L.F.	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
	CAN BUOY
	NUN BUOY
	LIGHTED BUOY
	FIXED LIGHT
	LIGHT HOUSE
	SUBMERGED WRECK

SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS SHOWN ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD 85) (EPSG:5609).
2. HORIZONTAL COORDINATES AND DISTANCES SHOWN ARE U.S. SURVEY FEET REFERRED TO NORTH AMERICAN DATUM 1983/2011 (NAD83/11) NEW YORK STATE PLANE COORDINATE SYSTEM – WEST ZONE (EPSG:6541)
3. SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING SORTED FROM FULL MULTIBEAM COVERAGE USING A 20' X 20' HYPACK MATRIX.
4. SOUNDINGS FROM STA 00+00 TO 71+00 WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. HENNEBERGER AND PARTY ON MAY 21, 2026 USING:
   GPS POSITIONING, SEPTENTRIO ASTERX–4 W/RTK TIDES
   SONAR HEAD: 450 KHZ, PING DSP3DSS–DX–450
   0.4 DEGREE BEAM WIDTH
   HEAVE PITCH AND ROLL; SBG ELLIPSE–3
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "SMOKERCRAFT"
5. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.
6. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.
7. THIS PROJECT WAS DESIGNED BY THE BUFFALO DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110–1–8152.



VICINITY MAP
"NOT TO SCALE"

CHANNEL CORNERS COORDINATES		
POINT	NORTHING	EASTING
570	1043278.44	1078863.13
572	1043408.19	1079044.03
574	1043441.21	1079143.42
576	1043445.48	1079419.88
578	1043419.28	1079526.94
580	1042394.18	1081323.25
579	1042504.71	1081432.20
577	1043638.56	1079445.33
575	1043632.95	1079082.07
573	1043412.45	1078774.65



SEE SHEET 4

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

Drawn by: JDP
Checked by: DMD
Reviewed by:
Aaron C. Kennerly, PLS
Chief, Survey Section
Approved by:
Vincent M. Lovullo
Chief, NY/PA Navigation and Maintenance Section

** COPY OF SIGNED ORIGINAL **

Date: July 2, 2026

To download an electronic version of this map, point a web browser to https://navigation.usace.army.mil/survey/hydro/

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

BUFFALO RIVER
BUFFALO, NY
PROJECT CONDITION SOUNDINGS 2026
SCALE: 1"=200'

Sheet reference number
VH–105
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