VICINITY MAP
NOT TO SCALE

LOCALITY MAP
NOT TO SCALE

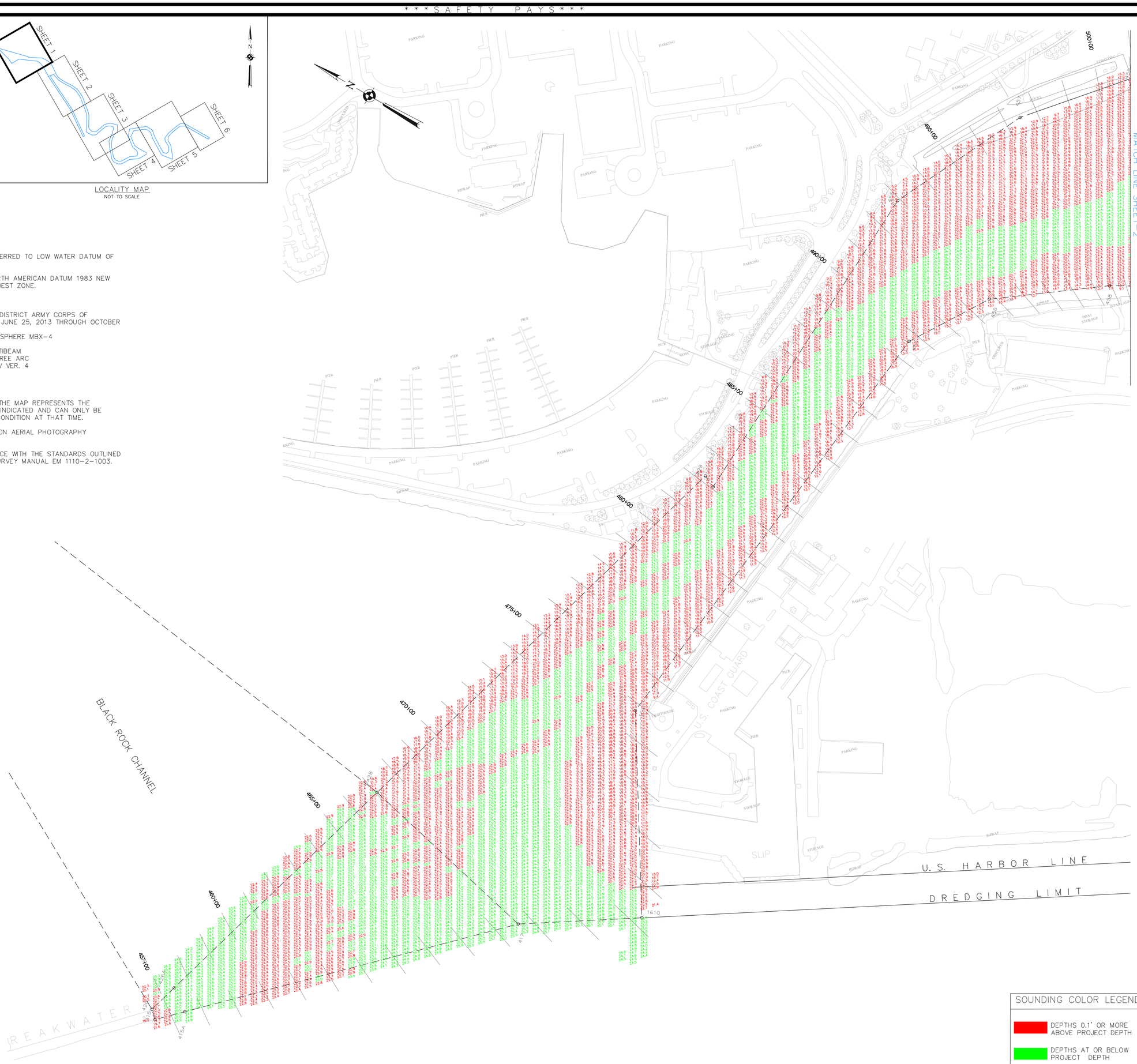
SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO LOW WATER DATUM OF 569.2 FEET IGLD 1985.
2. HORIZONTAL CONTROL IS REFERRED TO NORTH AMERICAN DATUM 1983 NEW YORK STATE PLANE COORDINATE SYSTEM–WEST ZONE.
3. PROJECT DEPTH IS 23 FEET.
4. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON JUNE 25, 2013 THROUGH OCTOBER 9, 2013 USING:
   GPS POSITIONING, POS–MV VER.4 AND HEMISPHERE MBX–4
   BEACON USED; YOUNGSTOWN
   SONAR HEAD: 240 KHZ, SEABAT 7101 MULTIBEAM
   1.5 DEGREE BEAMS 210 DEGREE ARC
   HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 4
   VELOCITY PROFILER; RESON SVP 15
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "CROTTY"
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. THE TOPOGRAPHIC INFORMATION IS BASED ON AERIAL PHOTOGRAPHY ACQUIRED FROM 1998 THROUGH 2004.
7. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.

LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F.	HARBOR LINE CORNER
– – – –	FEDERAL CHANNEL
———	HARBOR LINE
	SUBMARINE CABLE
	CAN BOUY
	NUN BOUY
	LIGHTED BOUY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)
S	LIGHT CYCLE SECONDS

CHANNEL CORNER COORDINATES

Point #	NORTHING	EASTING
415	1049631.64	1064567.26
415A	1049560.64	1064637.67
417	1048769.95	1065421.28
426	1049656.72	1064591.13
426A	1049629.05	1064687.23
428	1049377.09	1065561.77
429	1048969.88	1066977.65
453	1048930.79	1066959.22
454	1048617.73	1067682.68
455	1048877.01	1068058.17
456	1048461.69	1067930.08
457	1048668.81	1068488.84
458	1048147.03	1068162.50
1610	1048433.99	1065638.34
1611	1048787.02	1066207.78



SOUNDING COLOR LEGEND

DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH

DEPTHS AT OR BELOW PROJECT DEPTH

US Army Corps of Engineers
Buffalo District

This drawing was prepared using a CADD system. Scaling may be distorted.

Drawn by:	KRL
Checked by:	ACK
Reviewed by:	Roman H. Figler III PLS, Chief, Survey Section
Approved:	Edward F. Gawrecki, Chief, NY/PA Navigation and Maintenance Section

DATE: October 17, 2013

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

BUFFALO HARBOR, N.Y.
BUFFALO RIVER AND SHIP CANAL

PROJECT CONDITION SOUNDINGS 2013

SCALE: 1" = 100'

100' 0 100'
SCALE IN FEET

Sheet reference number:
VH – 101

Sheet 1 of 6

To view a color version of this map, point a web browser to http://www.lrb.usace.army.mil/WebMaster/Survey/survey.html

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