



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
O	QUICK (FLASHING)
S	LIGHT CYCLE SECONDS

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
415	1049631.64	1064567.25
417	1048768.96	1065421.52
426	1049956.71	1064531.12
428	1049377.08	1065561.74
429	1048969.88	1066977.64
453	1048930.79	1066959.22
454	1048617.72	1067682.68
455	1048877.00	1068058.17
456	1048461.68	1067930.07
1610	1048433.06	1065638.72
1611	1048787.01	1066207.77

- SITE SPECIFIC NOTES:**
- PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO LOW WATER DATUM OF 569.2 FEET IGLD 1985.
 - HORIZONTAL CONTROL IS REFERRED TO NORTH AMERICAN DATUM 1983 NEW YORK STATE PLANE COORDINATE SYSTEM - WEST ZONE.
 - CONTRACT DEPTH IS 22.0 FEET IN THE MAINTENANCE DREDGING AREAS.
PROJECT DEPTH IS 23.0 FEET IN THE NON MAINTENANCE DREDGING AREAS.
 - THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON DISK: HARBOR 2012
BFR12AFTVH1021-6.DGN
BFR12AFTV-HP.DGN
 - SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON JULY 12, 2012 THROUGH JULY 24, 2012, 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
 - 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.
 - THE TOPOGRAPHIC INFORMATION IS BASED ON AERIAL PHOTOGRAPHY ACQUIRED FROM 1998 THROUGH 2004.
 - THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003.



SOUNDING COLOR LEGEND	
Red	DEPTHS 0.1' OR MORE ABOVE CONTRACT DEPTH
Blue	DEPTHS WITHIN ONE FOOT OF OVERDEPTH
Green	DEPTHS 1.0' OR MORE BELOW CONTRACT DEPTH



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Approved: Raymond N. Lewis	Chief, NY/PA Navigation and Maintenance Section		

U.S. ARMY ENGINEER DISTRICT
BUFFALO RIVER AND SHIP CANAL
AFTER CONTRACT DREDGING SOUNDINGS 2012
BUFFALO, NEW YORK 14207-3199

Sheet reference number:
VH - 201
Sheet 1 of 6

Scale: 1" = 100'
Scale of Feet: 25.0, 50.0, 100.0