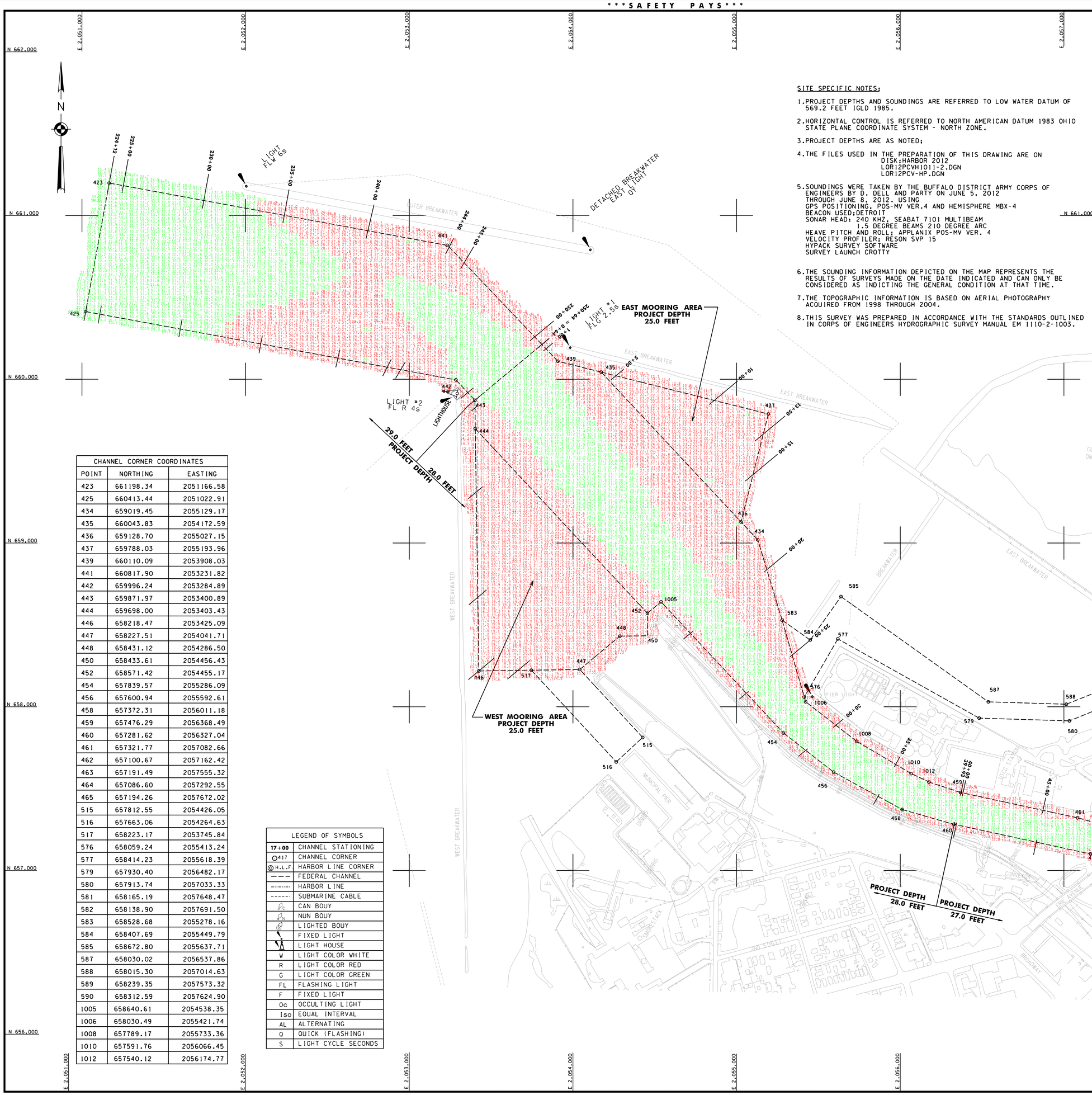

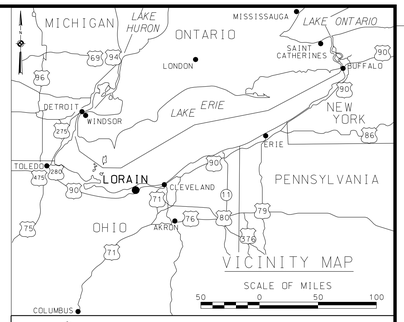

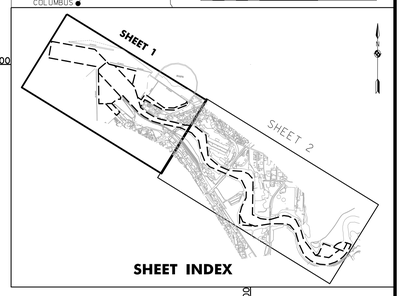

SITE SPECIFIC NOTES:

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 OHIO STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. PROJECT DEPTHS ARE AS NOTED;
4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2012
   LOR12PCVH1011-2.DGN
   LOR12PCV-HP.DGN
5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. DELL AND PARTY ON JUNE 5, 2012 THROUGH JUNE 8, 2012. USING
   GPS POSITIONING, POS-MV VER.4 AND HEMISPHERE MBX-4
   BEACON USED:DETROIT
   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
6. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICTING THE GENERAL CONDITION AT THAT TIME.
7. THE TOPOGRAPHIC INFORMATION IS BASED ON AERIAL PHOTOGRAPHY ACQUIRED FROM 1998 THROUGH 2004.
8. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003.

CHANNEL CORNER COORDINATES

POINT	NORTHING	EASTING
423	661198.34	2051166.58
425	660413.44	2051022.91
434	659019.45	2055129.17
435	660043.83	2054172.59
436	659128.70	2055027.15
437	659788.03	2055193.96
439	660110.09	2053908.03
441	660817.90	2053231.82
442	659996.24	2053284.89
443	659871.97	2053400.89
444	659698.00	2053403.43
446	658218.47	2053425.09
447	658227.51	2054041.71
448	658431.12	2054286.50
450	658433.61	2054456.43
452	658571.42	2054455.17
454	657839.57	2055286.09
456	657600.94	2055592.61
458	657372.31	2056011.18
459	657476.29	2056368.49
460	657281.62	2056327.04
461	657321.77	2057082.66
462	657100.67	2057162.42
463	657191.49	2057555.32
464	657086.60	2057292.55
465	657194.26	2057672.02
515	657812.55	2054426.05
516	657663.06	2054264.63
517	658223.17	2053745.84
576	658059.24	2055413.24
577	658414.23	2055618.39
579	657930.40	2056482.17
580	657913.74	2057033.33
581	658165.19	2057648.47
582	658138.90	2057691.50
583	658528.68	2055278.16
584	658407.69	2055449.79
585	658672.80	2055637.71
587	658030.02	2056537.86
588	658015.30	2057014.63
589	658239.35	2057573.32
590	658312.59	2057624.90
1005	658640.61	2054538.35
1006	658030.49	2055421.74
1008	657789.17	2055733.36
1010	657591.76	2056066.45
1012	657540.12	2056174.77

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

SOUNDING COLOR LEGEND

DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH

DEPTHS AT OR BELOW PROJECT DEPTH

US Army Corps of Engineers
Buffalo District

Drawn by: PAN
Checked by: ACK
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved: Raymond N. Lewis
Chief, NY/PA Navigation and Maintenance Section
Date: July 23, 2012

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

LORAIN HARBOR, OHIO
RIVER SECTIONS
PROJECT CONDITION SOUNDINGS 2012
SCALE: 1" = 200'
SCALE OF FEET 50 0 100 200

Sheet reference number:
VH - 101
Sheet **1** of **2**
12S-LOR-1/1

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

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