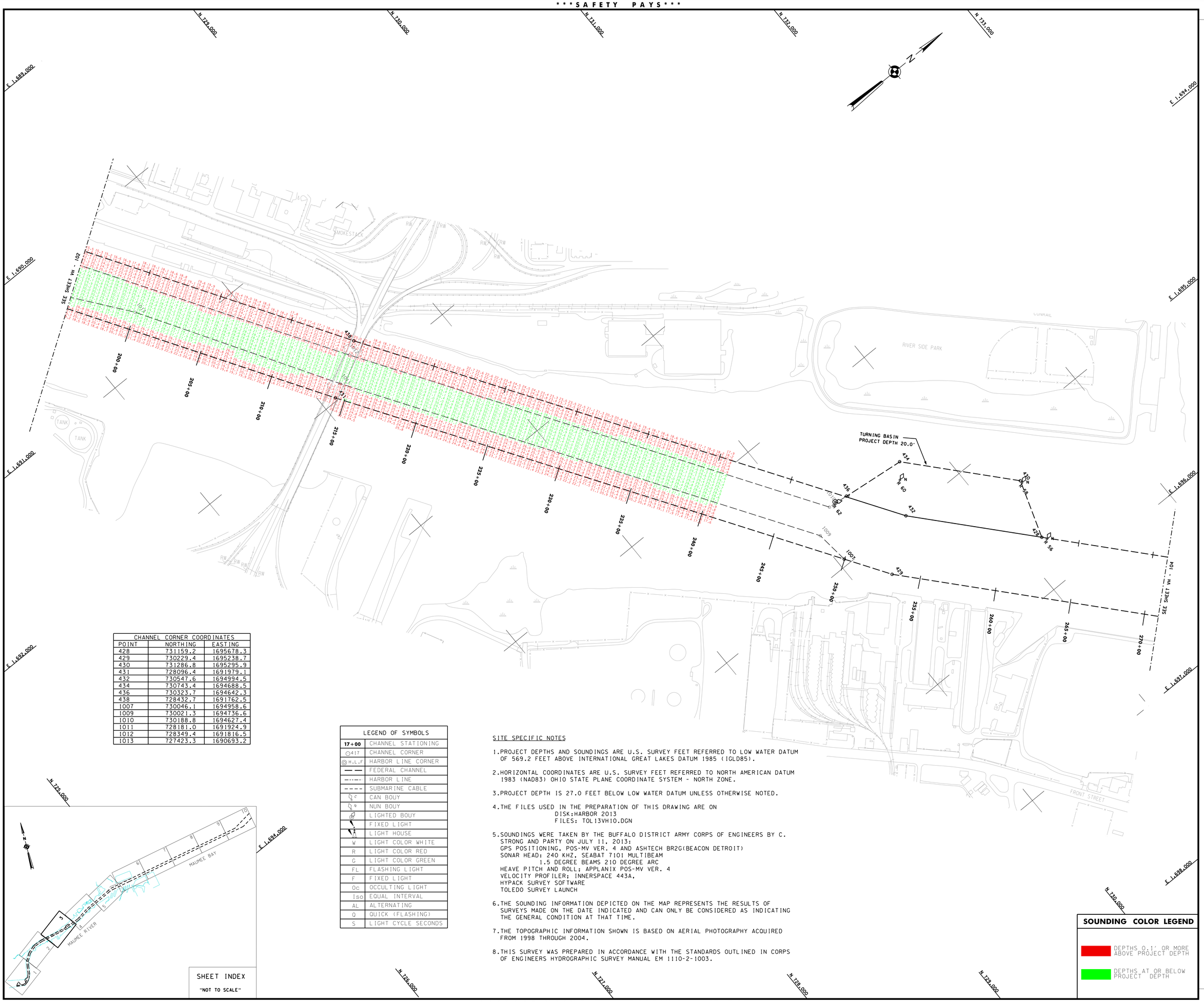

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
428	731159.2	1695678.3
429	730229.4	1695238.7
430	731286.8	1695295.9
431	728096.4	1691979.1
432	730547.6	1694994.5
434	730743.4	1694688.5
436	730323.7	1694642.3
438	728432.7	1691762.5
1007	730046.1	1694958.6
1009	730021.3	1694736.6
1010	730188.8	1694627.4
1011	728181.0	1691924.9
1012	728349.4	1691816.5
1013	727423.3	1690693.2

LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BOUY
N	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

SITE SPECIFIC NOTES

1. PROJECT DEPTHS AND SOUNDINGS ARE U.S. SURVEY FEET REFERRED TO LOW WATER DATUM OF 569.2 FEET ABOVE INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD85).

2. HORIZONTAL COORDINATES ARE U.S. SURVEY FEET REFERRED TO NORTH AMERICAN DATUM 1983 (NAD83) OHIO STATE PLANE COORDINATE SYSTEM - NORTH ZONE.

3. PROJECT DEPTH IS 27.0 FEET BELOW LOW WATER DATUM UNLESS OTHERWISE NOTED.

4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2013
   FILES: TOL13VH10.DGN

5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY C. STRONG AND PARTY ON JULY 11, 2013:
   GPS POSITIONING, POS-MV VER. 4 AND ASHTECH BR2G(BEACON 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; INNERSPACE 443A,
   HYPACK SURVEY SOFTWARE
   TOLEDO SURVEY LAUNCH

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. THE TOPOGRAPHIC INFORMATION SHOWN 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.

SHEET INDEX

"NOT TO SCALE"

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.

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

Drawn by:	ACK
Checked by:	KPL
Reviewed by: Roman H. Figler, III	
Chief, Survey Unit	Date: JULY 31, 2013
Approved: Edward F. Gawarecki	
Chief, NY/PA Navigation and Maintenance Section	

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

TOLEDO HARBOR, OHIO
RIVER SECTIONS

PROJECT CONDITION SOUNDINGS 2013

SCALE: 1" = 200'

SCALE OF FEET 50 0 100 200

Sheet reference number:

VH - 103

Sheet **3** of **10**