

- NOTES:**
1. GAGES USED WERE TAKEN FROM CHISELED MARK ON SEA WALL WHICH IS 6.0 FT. ABOVE L.W.D. 577.5' LOCATED NEAR THE N.E. CORNER OF THE REST ROOMS NEXT TO THE MARINA'S PARKING AREA THE MARK BEING REFERENCED FROM BENCH MARK "JAM2" ALSO LOCATED NEAR THE MARK ON THE SEA WALL.
 2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
 3. TRANSDUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 200 KHZ AND THE BEAM ANGLE WAS 8.0 DEGREES.

AIDS TO NAVIGATION		
DESCRIPTION	NORTH	EAST
R "6"	650.395	13.614.012
C "5"	649.466	13.614.082

SURVEY CONTROL DATA				
STATION NUMBER	DESCRIPTION	COORDINATES	ELEV.	
ZIP		649.193.52	13.614.403.27	587.89
E - BRK L.T.		649.196.11	13.614.404.65	
EPISCOPAL CH. SP		648.763.17	13.612.207.14	
MUN. BLDG. BELFRY		650.000.92	13.612.233.59	
TANK		649.381.21	13.610.527.31	
W. BRK L.T.		649.497.75	13.614.211.45	
DA		650.283.30	13.614.358.58	587.92
DAY		650.388.26	13.613.967.73	588.74
ODD		649.524.03	13.614.450.70	587.76
BM JAM-2				582.866
S-32 (1934)				621.155

CHANNEL CONTROL DATA			
STATION NUMBER	DESCRIPTION	COORDINATES	
1	CHANNEL LINE	648.994.569	13.614.375.824
2	CHANNEL LINE	649.121.783	13.614.177.855
3	CHANNEL LINE	649.226.394	13.614.201.452
4	CHANNEL LINE	649.492.423	13.614.261.458
5	CHANNEL LINE	649.540.945	13.614.239.736
6	CHANNEL LINE	649.542.472	13.614.186.598
7	CHANNEL LINE	649.512.793	13.614.129.227
8	CHANNEL LINE	650.294.088	13.614.034.857
9	CHANNEL LINE	650.226.995	13.614.284.743
10	CHANNEL LINE	649.631.432	13.614.357.061
11	CHANNEL LINE	649.526.443	13.614.369.809
12	CHANNEL LINE	649.209.006	13.614.325.187
13	CHANNEL LINE	649.149.732	13.614.340.515
14	CHANNEL LINE	649.118.658	13.614.393.266

LEGEND

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THE TIME.

LOW WATER DATUM

ELEVATIONS AND PROJECT DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM, (1985) WHEN LAKE HURON IS AT ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL.

GRID COORDINATES

GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM.

ALL COORDINATES ARE IN US SURVEY FEET.

PROJECT DEPTHS

PROJECT DEPTHS ARE AS INDICATED ABOVE.

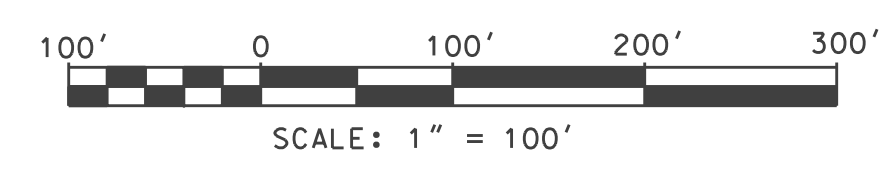
THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JOSEPH D. PERCELL AND RICHARD SALLANS, ABOARD THE USACE SURVEY SMALL BOAT.

AUTOMATED EQUIPMENT USED

POSITIONING: TRIMBLE DGPS
 SOFTWARE: HYPACK
 SONIC SOUNDER: ODDM CV-300

8.0 FT. CONTOUR
 10.0 FT. CONTOUR

LEGEND	
	FENCE
	SHORELINE
	CONTOUR LINE
	HORIZONTAL CONTROL POINT
	HORIZONTAL CONTROL POINT AND BENCHMARK



NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:*	LEXINGTON HARBOR, MI CONDITION SOUNDINGS 05 OCTOBER 2011 DETROIT AREA OFFICE		
DRAWN BY:*			
CHECKED BY:*			
REVIEWED BY:*			
SUBMITTED BY:*			
APPROVED:*	APPROVAL RECOMMENDED:*	SCALE AS SHOWN	
CHIEF, PROJ. OPS. SECT	CHIEF, QTS BRANCH	CADD FILE NAME	LXM01A94.DGN
CHIEF, CONST - OPS DIVISION		DRAWING NUMBER	1ex0111c.dgn
		SHEET 1 OF 1	