



**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)

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

**DIRECTIONS**

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS INDICATED ABOVE.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JOHN HAAS AND JOE PERCELL AROUND THE USACOE SURVEY VESSEL WHEELER

**AUTOMATED EQUIPMENT USED**

POSITIONINGS: ISS POS-MV  
DATA PROCESSOR: DELL 350 PC  
SOFTWARE: HYPACK  
PLOTTERS: ENCAD, CADJET 2  
SONIC SOUNDERS: RESON ENCAD, CADJET 2

**NOTES:**

- GAGES USED WERE OBTAINED ELECTRONICALLY FROM NOAA GAGE AT FERMIL POWER PLANT, MICHIGAN, VIA THE INTERNET.
- POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838 LOCATED AT FORT WAYNE, DETROIT, MICHIGAN, FREQUENCY 319 KHZ AT 200 BPS.
- DEPTH MEASURED USING RESON SEABAT B125 ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM SOUNDER SYSTEM AND CODM DIGIBAR PRO 081200 VELOCITY PROFILER.
- EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 31 FT. BY 15 FT. MATRIX. THE AVERAGE OF THE SOUNDINGS LOCATED IN EACH CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.

100' 0 100' 200' 300'  
scale feet

PROJECT DEPTH 21.0 FT.  
AZ = 111° 02' 22.3"

21.0 FT. CONTOUR

L.W.D 569.2

NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT</b> CORPS OF ENGINEERS DETROIT, MICHIGAN			
DRAWN BY: <b>RWP</b>		DETROIT AREA OFFICE DATE 14 OCTOBER 2010	
DESIGNED BY:		<b>MONROE HARBOR, MICH.</b> C.S. 24+00E TO C.S. 58+00E MULTIBEAM SWEEP SURVEY AVERAGE DEPTH PLOT	
CHECKED BY:		APPROVAL RECOMMENDED:	
REVIEWED:		CHIEF, OPS BRANCH	
SUBMITTED:		DATE	
APPROVED:		SCALE 1" = 100'	
CHIEF, CONST - OPNS DIVISION		DRAWING NUMBER mon480506.dgn	
		SHEET 4 OF 8	