



**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.  
 ALL COORDINATES ARE IN U.S. SURVEY FEET.

**DIRECTIONS**  
 ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

**PROJECT DEPTHS ARE AS SHOWN ON DRAWING. ALL DEPTHS ARE IN U.S. SURVEY FEET.**

**THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY ROBERT W. POLAK AND JAMES P. BYRNE, ABOARD THE USACE SURVEY VESSEL "WHEELER".**

**AUTOMATED EQUIPMENT USED**  
 POSITIONING: TSS POS-WY  
 SWF TRACKER: HYPACK HYSWEEP  
 SONIC SOUNDER: RESON SEABAT 8125  
 28.5 FT. PROJECT DEPTH CONTOUR

**NOTES:**

- GAUGES USED WERE OBTAINED ELECTRONICALLY FROM THE NOAA GAGE AT WANDOTTE (19044000), VIA THE INTERNET.
- POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 836, LOCATED AT FORT WAYNE, DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
- DEPTH MEASURED USING SEABAT 8125 ULTRA HIGH RESOLUTION FOCUSSED MULTIBEAM ECHOSOUNDER SYSTEM AND ODOM DIGIBAR PRO D81200 VELOCITY PROFILER.
- EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE LARGEST STRIKE LOCATED IN EACH CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.

SCALE: 100' 0' 100' 200'

1. 3 SEPT 2008	EDITED NOTES	RWP	
2. 3 SEPT 2008	PLACED SOUNDINGS AND CONTOURED	RWP	
NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	DETROIT AREA OFFICE	21 JULY 2008	
DRAWN BY:	RWP		
CHECKED BY:			
REVIEWED BY:			
SUBMITTED BY:	APPROVAL RECOMMENDED:		
BR/EF, PROJ OPS SEC	CHIEF, OPERATIONS MAINT. BRANCH		DATE
APPROVED:		SCALE AS SHOWN	DRAWING NUMBER
BR/EF, CONSTRUCTION - OPERATIONS DIVISION		SHEET 5 OF 6	br5c0708.dgn