



**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 RICHARD V. DELESTOWICZ AND JAMES P. BYRNE, ABOARD THE USACE SURVEY VESSEL "WHEELER".**

**AUTOMATED EQUIPMENT USED**  
 POSITIONING: TSS POS-MV  
 SOFTWARE: HYPACK HYSWEEP  
 SONIC SOUNDERS: RESON SEABAT 8125

- NOTES:**
1. GAGES USED WERE OBTAINED BY AVERAGING DATA FROM NOAA GAGES AT FERMIL POWER PLANT (9063090) AND GIBRALTER MI. (9044020). DATA WAS OBTAINED ELECTRONICALLY VIA THE INTERNET
  2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
  3. DEPTH MEASURED USING SEABAT 8125 ULTRA HIGH RESOLUTION FOCUSED MULTI-BEAM ECHOSOUNDER SYSTEM AND THE ODOM DIGIBAR PRO 081200 VELOCITY PROFILER
  4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE LARGEST STRIKE LOCATED IN EACH MATRIX CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.



1. 23 JULY 2008	UPDATED NOTES	RWP	
2. 23 JULY 2008	PLACED SOUNDINGS	RWP	
NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT</b> CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	DETROIT AREA OFFICE	24 JUNE 2008	
DRAWN BY:	<b>DETROIT RIVER, MICHIGAN</b> AMHERSTBURG CHANNEL CS 185+50 TO CS 221+50 MULTI-BEAM SWEEP SURVEY STRIKE PLOT		
CHECKED BY:	RWP		
REVIEWED BY:			
SUBMITTED BY:	P.E.	APPROVAL RECOMMENDED:	P.E. DATE
CHIEF, PROJ. BRNS SEC.	CHIEF, OPERATIONS TECHNICAL SUPPORT BRANCH		
APPROVED:		SCALE AS SHOWN	DRAWING NUMBER
CHIEF, CONSTRUCTION - OPERATIONS DIVISION		SHEET 4 OF 10	qc4s0608.dgn