



LEGEND
 THE INFORMATION DEPICTED ON THIS MAP IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR THE DATES INDICATED AND CAN ONLY BE USED UNDER THE GENERAL CONDITIONS AT THAT TIME.

LOW WATER DATUM
 ELEVATIONS REFERRED TO INTERNATIONAL GREAT LAKES DATUM. THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JOHN C. HAAS III AND JOSEPH D. PERCELLI. ABBAS THE USAGE SURVEY WHEELS.

GRID COORDINATES
 GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES FOR LAKE ERIE IS 569-2. ABOVE MEAN SEA LEVEL.

ALL COORDINATES ARE IN U.S. SURVEY FEET.

DIRECTIONS
 ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS INDICATED ABOVE.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JOHN C. HAAS III AND JOSEPH D. PERCELLI. ABBAS THE USAGE SURVEY WHEELS.

POSITIONING:
 SOFTWARE: HYPACK HYPACK
 SONIC SOUNDERS: R2 SONIC Z24

28.5 FT. PROJECT DEPTH CONTOUR

NOTES:
 1. GAGES USED WERE OBTAINED ELECTRONICALLY FROM NDATA GAGE AT FERMIL POWER PLANT, MICHIGAN (90639091), VIA THE INTERNET.
 2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE, DETROIT, MICHIGAN. FREQUENCY 319 KHZ AT 200 PPS.
 3. DEPTH MEASURED USING R2 SONIC Z24 ULTRA HIGH RESOLUTION FOCUSED MULTI-BEAM ECHOSOUNDER SYSTEM AND THE ODDM DIBEAR PRO 200 VELOCITY PROFILER. THE HEAD FREQUENCY WAS SET AT 400 KHZ AND THE BEAM SECTOR AT 160 DEGREES.
 4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15' MESH. THE AVERAGE SOUNDING LOCATE IN EACH MATRIX CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.



U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	DETROIT AREA OFFICE	REVISION	20 MAY 2011
DRAWN BY:	J.D.P.	DATE	20 MAY 2011
CHECKED BY:		APPROVAL RECOMMENDED:	
REVIEWED BY:		CHIEF, PROD. OPNS. SECT	CHIEF, DTS BRANCH
SUBMITTED BY:		APPROVED:	
CHIEF, CONST. - OPNS DIVISION		SCALE AS SHOWN	FILE NAME deoc0511.dgn
		SHEET 2 OF 8	