



**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 AS SHOWN ON THE SHEET. THEY ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM (1985) AND ARE ELEVATIONS ABOVE MEAN WATER LEVEL AT REMOUSKI, QUEBEC.

**GRID COORDINATES**

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

**DIRECTIONS**

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS SHOWN ON DRAWING.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY FREDRICK J.W. DOUGLAS, PARTY CHIEF, ABOARD THE USACE SURVEY VESSEL WHEELER

**AUTOMATED EQUIPMENT USED**

POSITIONING: TSS POS-W/  
 DATA PROCESSOR: DELL 550 PC  
 SOFTWARE: HIPACK  
 PLOTTERS: CADJET 2  
 SONIC DRAWER: RISON SEABAT 8128

**NOTES:**

1. GAGES USED WERE OBTAINED FROM NOAA ELECTRONIC GAGES AT WYANOTTE AND FORT WAYNE MI.
2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 83A, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 519 KHZ, 200 BPS
3. DEPTH MEASURED USING SEABAT 8128 ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM ECHOSOUNDER SYSTEM

100' 0' 100' 200'  
SCALE

NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	DETROIT AREA OFFICE	3 NOVEMBER 2003	
DRAWN BY:	<b>DETROIT RIVER, MICHIGAN</b>		
CHECKED BY:	TRENTO N CHANNEL		
REVIEWED BY:	CS 104+00 TO CS 140+00		
	MULTI-BEAM SWEEP SURVEY RESULTS		
	MINIMUM STRIKE PLOT		
SUBMITTED BY:	APPROVAL RECOMMENDED:	P.E.	DATE
CHIEF, PROJ. OPNS. SEC.	CHIEF, OPERATIONS TECHNICAL SUPPORT BRANCH		
CHIEF, CONSTRUCTION - OPERATIONS DIVISION			
	SCALE AS SHOWN		
		P.E.	DRAWING NUMBER
	SHEET 4 OF 14		10481103.dgn