



**LEGEND**

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY 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 NEAR WATER LEVEL AT RIMOUSKI, 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.

**AUTOMATED EQUIPMENT USED**

POSITIONING: TSS POS-MV  
 DATA PROCESSOR: DELL 330 PC  
 SOFTWARE: HIPACK  
 PLOTTER: CADJET 2  
 SONIC SOUNDERS: RESON SEABAT B125

**NOTES**

- GAGES USED WERE OBTAINED ELECTRONICALLY FROM NOAA GAGES AT ALGONAC AND ST. CLAIR, MICHIGAN.
- POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON B38 - LOCATED 31 FT NAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ. 200 BPS
- DEPTH MEASURED USING SEABAT B125 ULTRA HIGH RESOLUTION FOCUSSED MULTIBEAM ECOSOUNDING SYSTEM.

**U.S. ARMY ENGINEER DISTRICT, DETROIT**  
**CORPS OF ENGINEERS**  
**DETROIT, MICHIGAN**

DESIGNED BY: DETROIT AREA OFFICE 17 JULY 2007  
 DRAWN BY: ST. CLAIR RIVER, MICHIGAN  
 CHECKED BY: CS 700+00 TO CS 735+50  
 REVIEWED BY: MULTI-BEAM SWEEP SURVEY RESULTS  
 SUBMITTED BY: APPROVAL RECOMMENDED: P.E. DATE  
 APPROVED: CHIEF, DIS BRANCH P.E. DATE

SCALE AS SHOWN  
 SHEET 13 OF 54  
 DRAWING NUMBER: scl13s0707.dgn