



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 RIMOUSKI, QUEBEC.

GRID COORDINATES
GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113). LAMBERT PROJECTION, 1883 NORTH AMERICAN DATUM.

DIRECTIONS
ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

NOTES:

- GAGES USED WERE OBTAINED ELECTRONICALLY FROM NOAA MICHIGAN GAGES AT ALGONC (9040403) (1781) AND ST. CLAIR SHORES (9034052) (233). VIA THE INTERNET.
- POSITIONS WERE DETERMINED BY GPS REFERENCE BEACONS LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
- DEPTH MEASURED USING SONAR B125 ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM ECHOSOUNDER SYSTEM.
- EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO 3 FT. BY FT. 15 FT. MATRIX. THE SHALLOWEST SOUNDING LOCATED IN EACH CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.

AUTOMATED EQUIPMENT USED

POSITIONING: TSS PDS-W
SOFTWARE: HYPACK HYSWEEP
SONIC SOUNDERS: RESON SEABAT B125

27.2 FT. PROJECT DEPTH CONTOUR

27.1 FT. PROJECT DEPTH CONTOUR

SCALE 1" = 100'

NO.	DATE	REVISION	BY
1.	14 OCT 2008	UPDATED NOTES	RWP
2.	14 OCT 2008	PLACED SOUNDINGS AND CONTOURED	RWP

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

DESIGNED BY: DETROIT AREA OFFICE 19 AUGUST 2008
DRAWN BY: RWP
CHECKED BY: RWP
REVIEWED BY: RWP

SUBMITTED BY: P.E.L.
APPROVED: P.E.L. DATE: _____

CHIEF, CONSTRUCTION - OPERATIONS DIVISION

SCALE AS SHOWN

DRAWING NUMBER: SHEET 3 OF 54

PROJECT: ST. CLAIR RIVER, MICHIGAN
TASHMOO SHOAL
CS 356+00 TO CS 388+00
MULTI-BEAM CONDITION SWEEP SURVEY
MINIMUM DEPTH PLOT