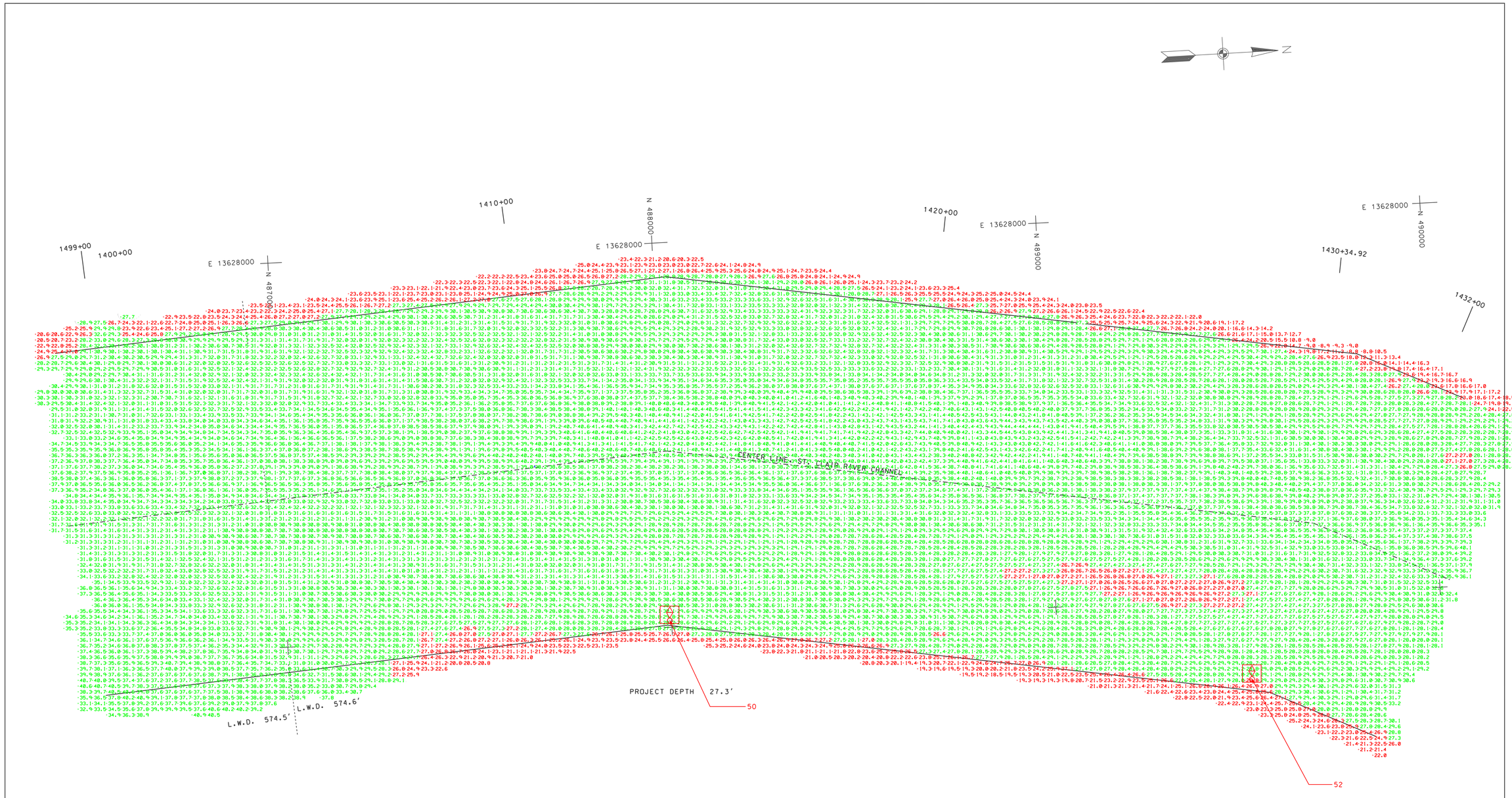

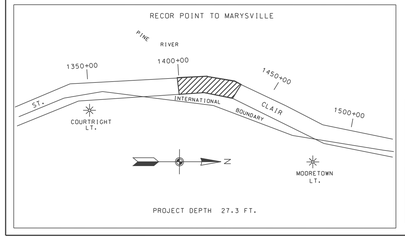

LEGEND

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)

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 ROBERT W. POLAK AND JAMES P. BYRNE. ABOARD THE USACOE SURVEY VESSEL "WHEELER".

AUTOMATED EQUIPMENT USED

POSITIONING:	TSS POS-MV
SOFTWARE:	HYPACK HYSWEEP
SONIC SOUNDER:	RESON SEABAT 8125

27.3 ft. PROJECT DEPTH CONTOUR

NOTES:

1. GAGES USED WERE OBTAINED ELECTRONICALLY FROM NOAA MICHIGAN GAGES AT ST. CLAIR [9014080] (91%). AND DRY DOCK [9014087] (9%). 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 MULTIBEAM ECHOSOUNDER SYSTEM.

100' 0' 100' 200'
SCALE 1" = 100'

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

NO.	DATE	REVISION	BY
1.	8 OCT 2008	UPDATED NOTES	RWP
2.	8 OCT 2008	PLACED SOUNDINGS AND CONTOURED	RWP

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

DETROIT AREA OFFICE 14 AUG 2008

ST. CLAIR RIVER. MICHIGAN

ST. CLAIR RIVER CHANNEL
CS 1399+00 TO CS 1432+00
MULTI-BEAM CONDITION SWEEP SURVEY
MINIMUM DEPTH PLOT

DESIGNED BY:
DRAWN BY: RWP
CHECKED BY:
REVIEWED BY:
SUBMITTED BY: P.E.
CHIEF. PROJ OPNS SEC
APPROVAL RECOMMENDED: P.E. DATE
CHIEF. OTS BRANCH
APPROVED: P.E.
CHIEF. CONSTRUCTION - OPERATIONS DIVISION

SCALE AS SHOWN

SHEET 33 OF 54

DRAWING NUMBER sc33s0808.dgn