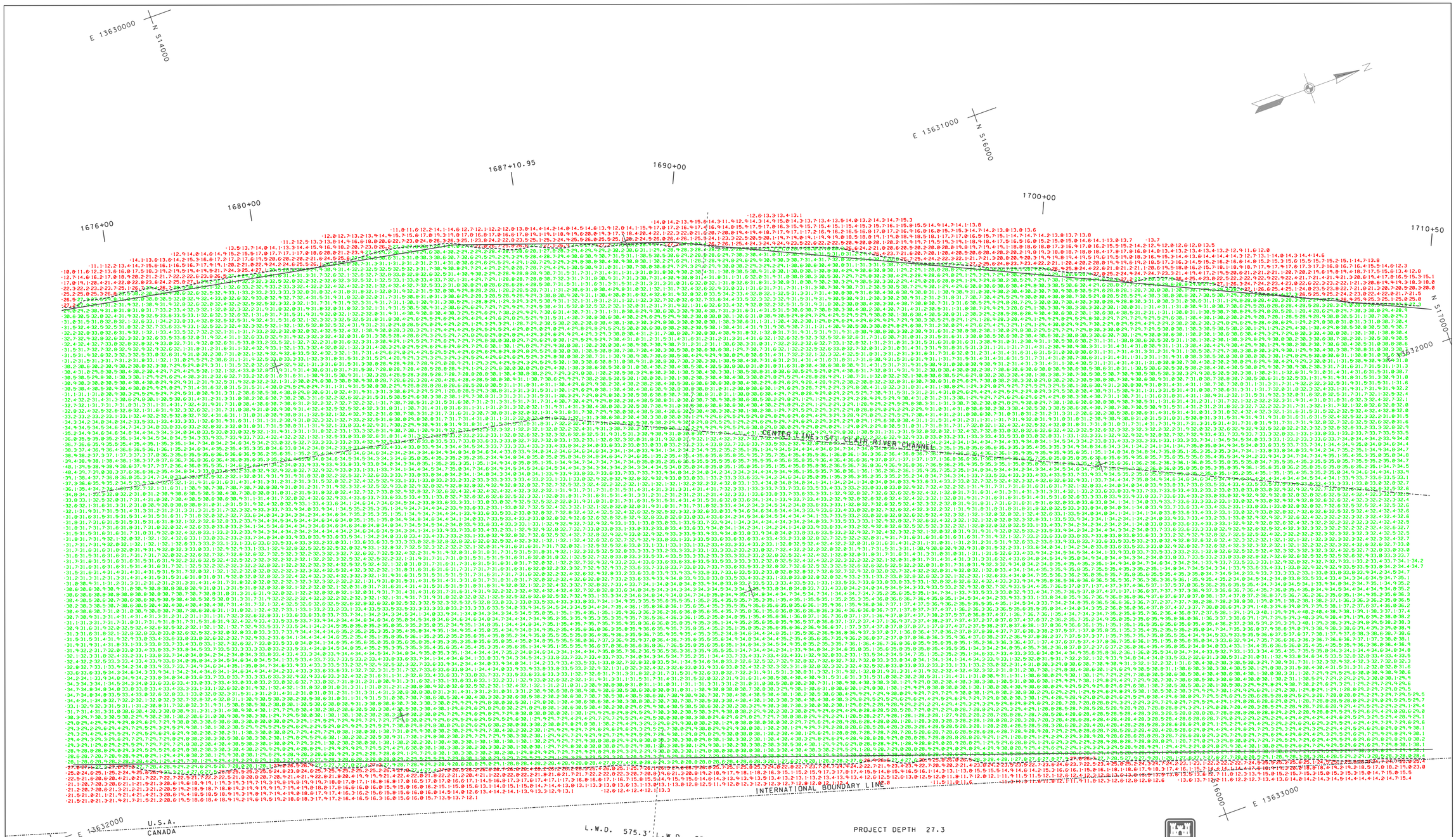

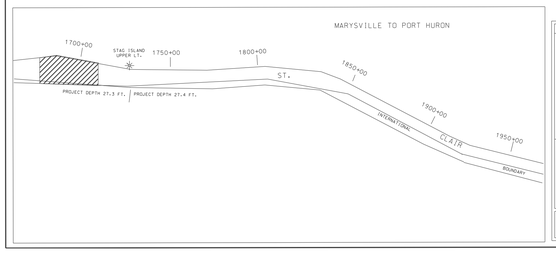

LEGEND

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 US SURVEY FEET.

DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS SHOWN ON DRAWING.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JOHN C. HAAS AND JOSEPH D. PERCELL. ABOARD THE USACE SURVEY VESSEL "WHEELER".

AUTOMATED EQUIPMENT USED

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

NOTES:

1. GAGES USED WERE WEIGHTED AVERAGES OF DATA OBTAINED FROM THREE GAGES ERECTRECTLY FROM THE ACE AT ST. CLAIR (36%), AND DRY DOCK (64%), MICHIGAN. 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 SYSTEMAND THE ODOM DIGIBAR PRO DB1200 VELOCITY PROFILER.
4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE SHALLOWEST SOUNDING LOCATED IN EACH CELL OF THE MATRIX WAS SELECTED FOR PLOTTING AT THE CELL CENTER.

100' 0' 100' 200'

SCALE 1" = 100'

U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT

NO.	DATE	REVISION	BY

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

DETROIT AREA OFFICE — 16 SEPTEMBER 2010

ST. CLAIR RIVER, MICHIGAN

ST. CLAIR RIVER CHANNEL
CS 1676+00 TO CS 1710+50
MULTI-BEAM CONDITION SWEEP SURVEY
AVERAGE DEPTH PLOT

DESIGNED BY:
DRAWN BY: R.W.P.
CHECKED BY:
REVIEWED BY:
SUBMITTED BY: P.E.
CHIEF, PROJ OPNS SEC
APPROVED: P.E.
CHIEF, CONSTRUCTION - OPERATIONS DIVISION

APPROVAL RECOMMENDED: P.E. DATE
CHIEF, DTS BRANCH

SCALE AS SHOWN

SHEET 41 OF 54

DRAWING NUMBER sc41s0910.dgn