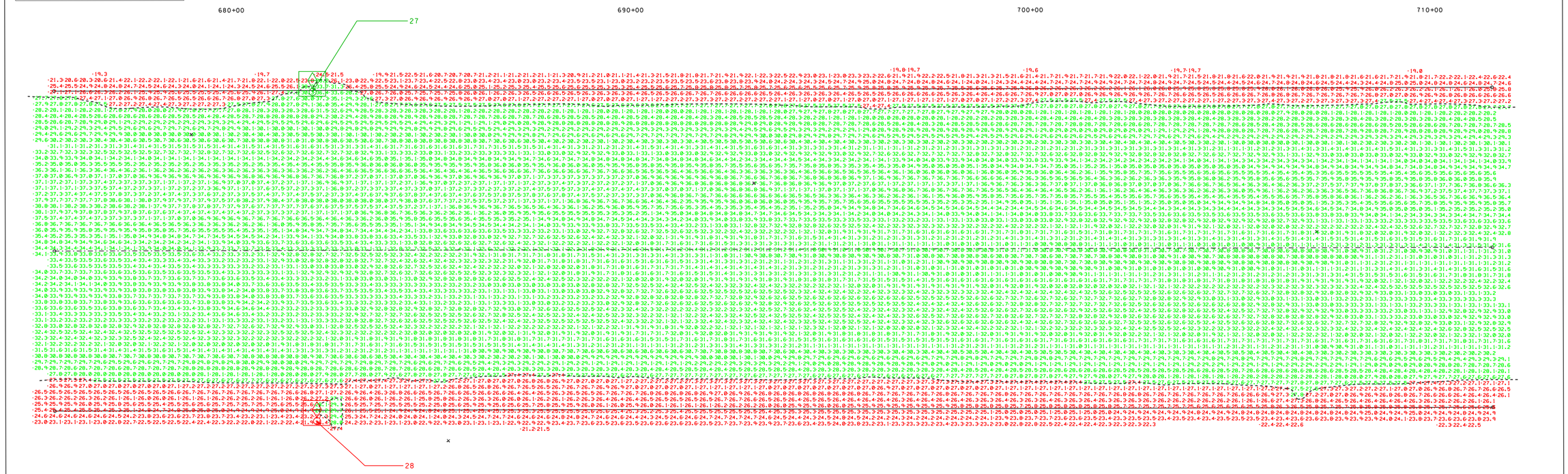

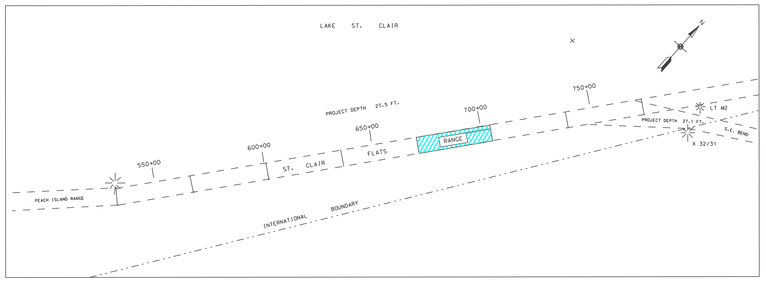

LEGEND

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 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 INDICATED ABOVE. ALL DEPTHS ARE IN U.S. SURVEY FEET.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JAMES P. BYRNE AND JOSEPH D. PERCELL. ABOARD THE USACOE SURVEY VESSEL "WHEELER"

AUTOMATED EQUIPMENT USED

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

27.5 ft. PROJECT DEPTH CONTOUR

NOTES:

1. GAGES USED WERE OBTAINED ELECTRONICALLY FROM NOAA GAGE AT ST. CLAIR SHORES (9034052). MICHIGAN. VIA THE INTERNET.
2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838 LOCATED AT FORT WAYNE. DETROIT. MICHIGAN. FREQUENCY 319 KHZ AT 200 BPS.
3. DEPTH MEASURED USING RESON SEABAT 8125 ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM SOUNDER SYSTEM AND ODOM DIGIBAR PRO DB1200 VELOCITY PROFILER.
4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE AVERAGE OF ALL SOUNDINGS LOCATED IN EACH MATRIX CELL WAS THEN PLOTTED AT THE CELL CENTER.

1" = 100' 100' 50' 0 100' 200'

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

NO.	DATE	REVISION	BY

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

DETROIT AREA OFFICE — 25 AUGUST 2008

LAKE ST. CLAIR, MICHIGAN
ST CLAIR FLATS RANGE
C.S. 676+00 TO C.S. 711+00
MULTIBEAM SWEEP CONDITION SURVEY
AVERAGE DEPTH PLOT

DESIGNED BY:
DRAWN BY: RWP
CHECKED BY:
REVIEWED BY:
SUBMITTED BY:
CHIEF,PROJ.OPNS.SECT
APPROVAL RECOMMENDED:
CHIEF, DTS BRANCH
APPROVED:
CHIEF, CONST - OPNS DIVISION

SCALE AS SHOWN

DRAWING NUMBER
lsc20s0808.dgn

SHEET 20 OF 23