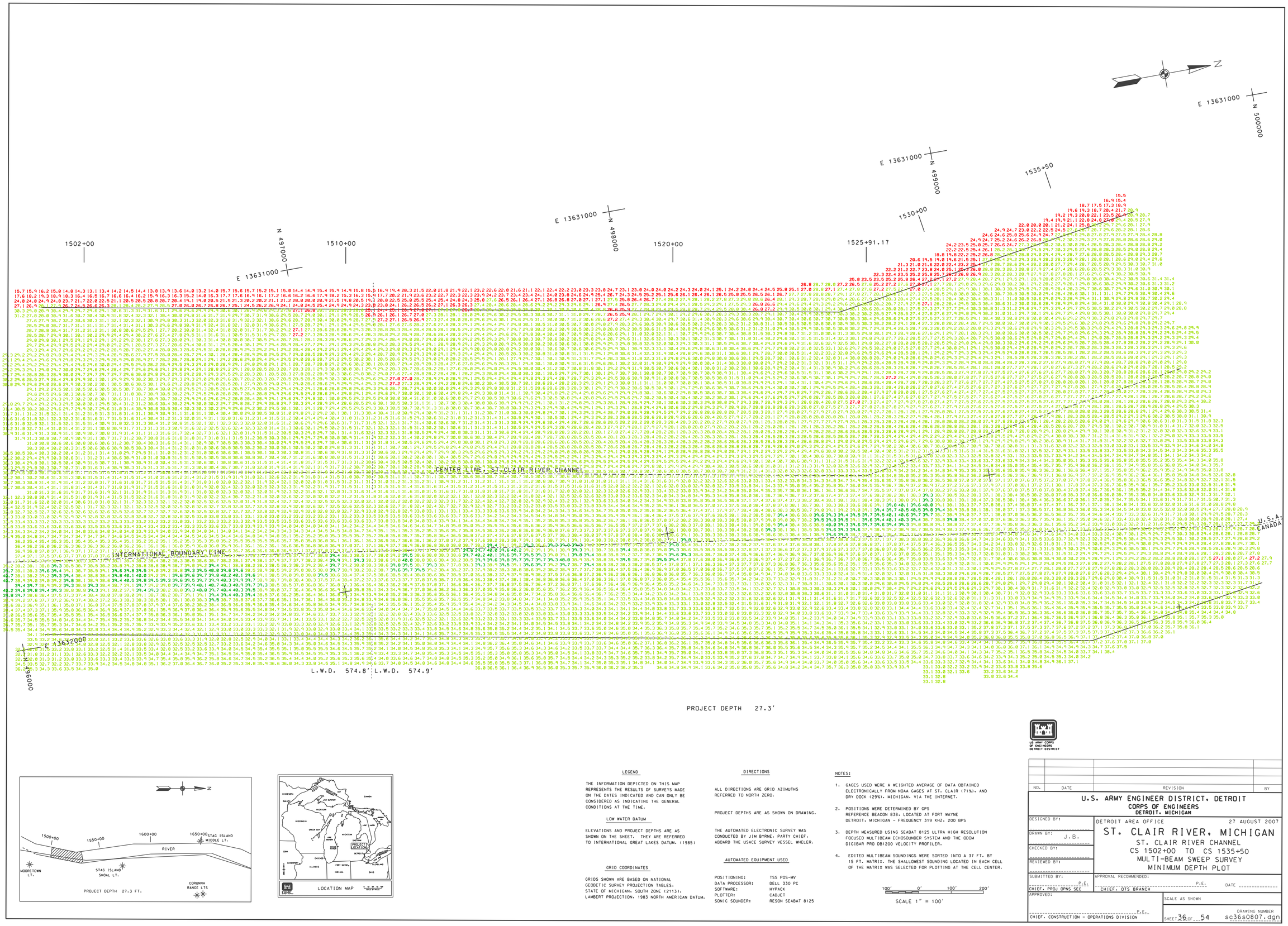








### LEGEND

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.

### DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS SHOWN ON DRAWING.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JIM BYRNE, PARTY CHIEF. ABOARD THE USACE SURVEY VESSEL WHELER.

### AUTOMATED EQUIPMENT USED

| | |
|---|---|
| POSITIONING: | TSS POS-MV |
| DATA PROCESSOR: | DELL 330 PC |
| SOFTWARE: | HYPACK |
| PLOTTER: | CADJET |
| SONIC SOUNDER: | RESON SEABAT 8125 |

### NOTES:

1. GAGES USED WERE A WEIGHTED AVERAGE OF DATA OBTAINED ELECTRONICALLY FROM NOAA GAGES AT ST. CLAIR (71%), AND DRY DOCK (29%), 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 SYSTEM AND 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'

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

| NO. | DATE | REVISION | BY |
|---|---|---|---|
| | | | |

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

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

DETROIT AREA OFFICE 27 AUGUST 2007

# ST. CLAIR RIVER, MICHIGAN

ST. CLAIR RIVER CHANNEL
CS 1502+00 TO CS 1535+50
MULTI-BEAM SWEEP SURVEY
MINIMUM DEPTH PLOT

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

SCALE AS SHOWN

DRAWING NUMBER sc36s0807.dgn

SHEET 36 OF 54