

| CENTER LINE T.P. | | |
|------------------|---------------|------------|
| T.P. | EAST X | NORTH Y |
| 27 | 13-535-445.06 | 401-400.45 |
| 28 | 13-535-400.63 | 401-103.79 |
| 29 | 13-535-221.99 | 400-892.77 |
| 30 | 13-534-047.11 | 400-884.94 |
| 31 | 13-532-977.51 | 400-628.56 |
| 32 | 13-532-685.85 | 400-698.69 |
| 33 | 13-532-622.45 | 400-888.35 |
| 34 | 13-533-021.47 | 401-805.18 |
| 35 | 13-532-942.23 | 402-042.26 |
| 36 | 13-532-614.46 | 402-164.94 |



| CHANNEL LINE T.P. | | |
|-------------------|---------------|------------|
| T.P. | EAST X | NORTH Y |
| 27N | 13-535-419.52 | 401-398.67 |
| 27S | 13-535-470.61 | 401-402.23 |
| 28N | 13-535-376.97 | 401-114.59 |
| 28S | 13-535-424.29 | 401-053.00 |
| 29N | 13-535-210.37 | 400-919.67 |
| 29S | 13-535-233.57 | 400-869.87 |
| 29W1 | 13-535-263.92 | 400-982.32 |
| 29W2 | 13-535-127.96 | 400-918.98 |
| 30W | 13-534-044.05 | 400-909.90 |
| 30S | 13-534-050.17 | 400-859.96 |
| 31N | 13-532-977.52 | 400-654.27 |
| 31S | 13-532-977.50 | 400-602.85 |
| 32N | 13-532-705.16 | 400-719.76 |
| 32S | 13-532-686.53 | 400-677.62 |
| 32W1 | 13-532-988.53 | 400-659.71 |
| 32W2 | 13-532-677.98 | 400-801.07 |
| 33S | 13-532-595.70 | 400-889.53 |
| 33W1 | 13-532-674.25 | 400-860.99 |
| 33W2 | 13-532-681.26 | 400-960.83 |
| 34N | 13-533-048.22 | 401-800.99 |
| 34S | 13-532-994.72 | 401-806.35 |
| 34W1 | 13-532-962.66 | 401-732.70 |
| 34W2 | 13-532-969.25 | 401-882.54 |
| 35N | 13-532-982.16 | 402-061.49 |
| 35S | 13-532-922.30 | 402-023.02 |
| 35W1 | 13-532-948.64 | 401-944.22 |
| 35W2 | 13-532-844.48 | 402-052.15 |
| 36N | 13-532-615.62 | 402-191.20 |
| 36S | 13-532-613.30 | 402-138.67 |
| 36W1 | 13-532-687.16 | 402-111.03 |
| 36W2 | 13-532-537.31 | 402-117.63 |

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). THE LOW WATER DATUM FOR THE CLINTON RIVER IS 572.3 FT. ABOVE MEAN SEA LEVEL.

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

PROJECT DEPTHS ARE AS INDICATED ABOVE.

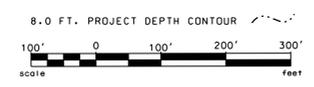
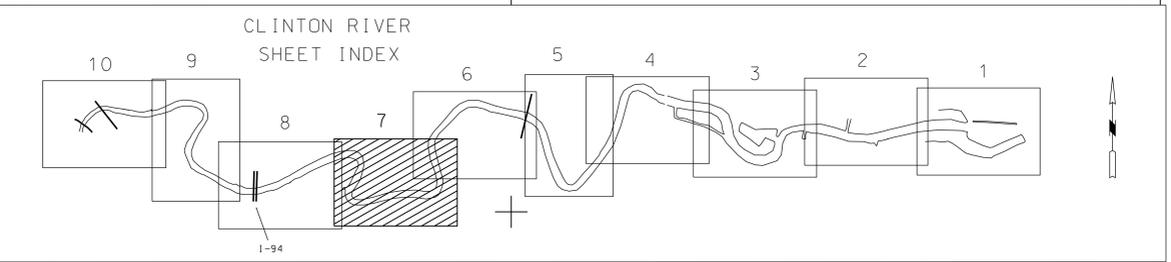
THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY ROBERT W. POLAK AND ROBERT #9 SCHLIEWI, ABOARD THE USAC SURVEY SMALL BOAT.

AUTOMATED EQUIPMENT USED

POSITIONING: TRIMBLE DGPS
 SOFTWARE: COASTAL OCEANOGRAPHICS
 SONIC SOUNDER: INNERSPACE 448

CULTIVATED

- NOTES:**
- GAGES USED WERE TAKEN FROM A 4 FT. MARK SET ON THE HEADWALL OF THE STORM SEWER JUST DOWNRIVER OF THE FEDERAL LOADING DOCK, ABOVE THE BRIDGEVIEW RD. BRIDGE, AT APP. CS 186+50.
 - POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ. 200 BPS
 - TRANSDUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 208 KHZ AND THE BEAM ANGLE WAS 3.0 DEGREES.



| | | | |
|---|------|--|----|
| NO. | DATE | REVISION | BY |
| U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN | | | |
| DRAWN BY | | CLINTON RIVER, MICH. CONDITION SOUNDINGS | |
| DESIGNED BY | | C.S. 225+00W TO C.S. 245+00W -- 2 APR 2008 C.S. 246+00W TO C.S. 284+00W -- 3 APR 2008 | |
| CHECKED BY | | DETROIT AREA OFFICE | |
| REVIEWED: | | APPROVAL RECOMMENDED: | |
| SUBMITTED: | | DATE: | |
| APPROVED | | SCALE 1" = 100' | |
| | | DRAWING NUMBER | |
| | | SHEET 7 OF 10 | |