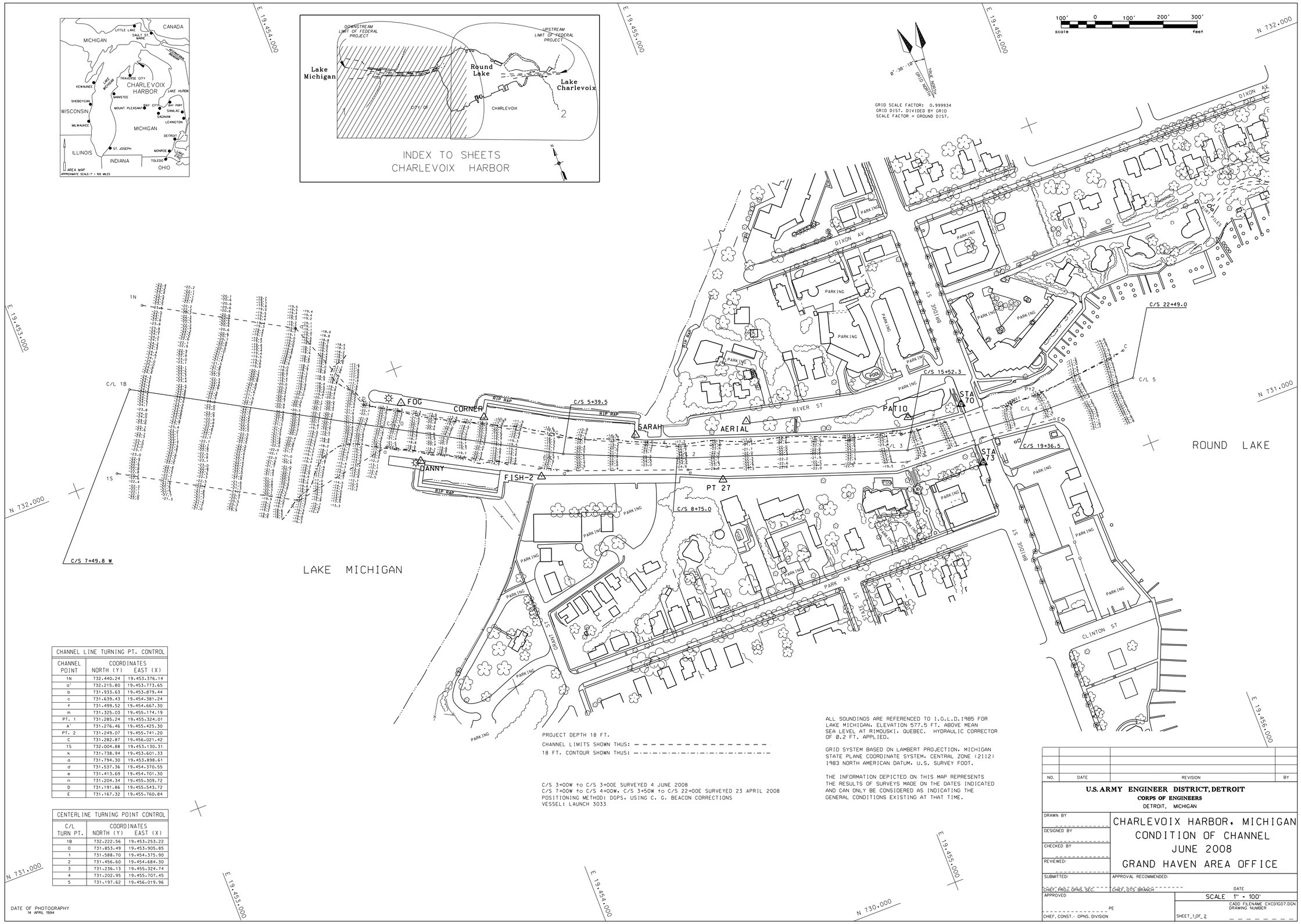


| CHANNEL LINE TURNING PT. CONTROL | | |
|---|---|---|
| CHANNEL POINT | COORDINATES NORTH (Y) | EAST (X) |
| 1N | 732.440.24 | 19.453.376.14 |
| a' | 732.215.80 | 19.453.773.65 |
| b | 731.933.63 | 19.453.879.44 |
| c | 731.639.43 | 19.454.381.24 |
| f | 731.499.52 | 19.454.667.30 |
| m | 731.325.03 | 19.455.174.19 |
| PT. 1 | 731.285.24 | 19.455.324.01 |
| A' | 731.276.46 | 19.455.425.30 |
| PT. 2 | 731.249.07 | 19.455.741.20 |
| C | 731.282.87 | 19.456.021.42 |
| 1S | 732.004.88 | 19.453.130.31 |
| k | 731.738.94 | 19.453.601.33 |
| a | 731.794.30 | 19.453.898.61 |
| d | 731.537.36 | 19.454.370.55 |
| e | 731.413.69 | 19.454.701.30 |
| n | 731.204.34 | 19.455.309.72 |
| D | 731.191.86 | 19.455.543.72 |
| E | 731.167.32 | 19.455.760.84 |

| CENTERLINE TURNING POINT CONTROL | | |
|---|---|---|
| C/L TURN PT. | COORDINATES NORTH (Y) | EAST (X) |
| 1B | 732.222.56 | 19.453.253.22 |
| 0 | 731.853.49 | 19.453.905.85 |
| 1 | 731.588.70 | 19.454.375.90 |
| 2 | 731.456.60 | 19.454.684.30 |
| 3 | 731.236.13 | 19.455.324.74 |
| 4 | 731.202.95 | 19.455.707.45 |
| 5 | 731.197.62 | 19.456.019.96 |

DATE OF PHOTOGRAPHY
14 APRIL 1994

PROJECT DEPTH 18 FT.

CHANNEL LIMITS SHOWN THUS: — — — — — — — — — — — — — — — —

18 FT. CONTOUR SHOWN THUS: —·—·—·—·—·—·—·—·—·—·—·—·—·—·—

C/S 3+00W to C/S 3+00E SURVEYED 4 JUNE 2008
C/S 7+00W to C/S 4+00W. C/S 3+50W to C/S 22+00E SURVEYED 23 APRIL 2008
POSITIONING METHOD: DGPS. USING C. G. BEACON CORRECTIONS
VESSEL: LAUNCH 3033

ALL SOUNDINGS ARE REFERENCED TO I.G.L.D.1985 FOR LAKE MICHIGAN. ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC. HYDRAULIC CORRECTOR OF 0.2 FT. APPLIED.

GRID SYSTEM BASED ON LAMBERT PROJECTION. MICHIGAN STATE PLANE COORDINATE SYSTEM. CENTRAL ZONE (2112) 1983 NORTH AMERICAN DATUM. U.S. SURVEY FOOT.

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 EXISTING AT THAT TIME.

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

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

DRAWN BY
DESIGNED BY
CHECKED BY
REVIEWED:
SUBMITTED:
CHIEF, PROJ. OPNS. SEC.
APPROVED
PE
CHIEF, CONST.- OPNS. DIVISION

# CHARLEVOIX HARBOR, MICHIGAN
## CONDITION OF CHANNEL
## JUNE 2008
## GRAND HAVEN AREA OFFICE

APPROVAL RECOMMENDED:
CHIEF, D/TS BRANCH
DATE

SCALE 1" = 100'
CADD FILENAME CXC01G07.DGN
DRAWING NUMBER
SHEET 1 OF 2