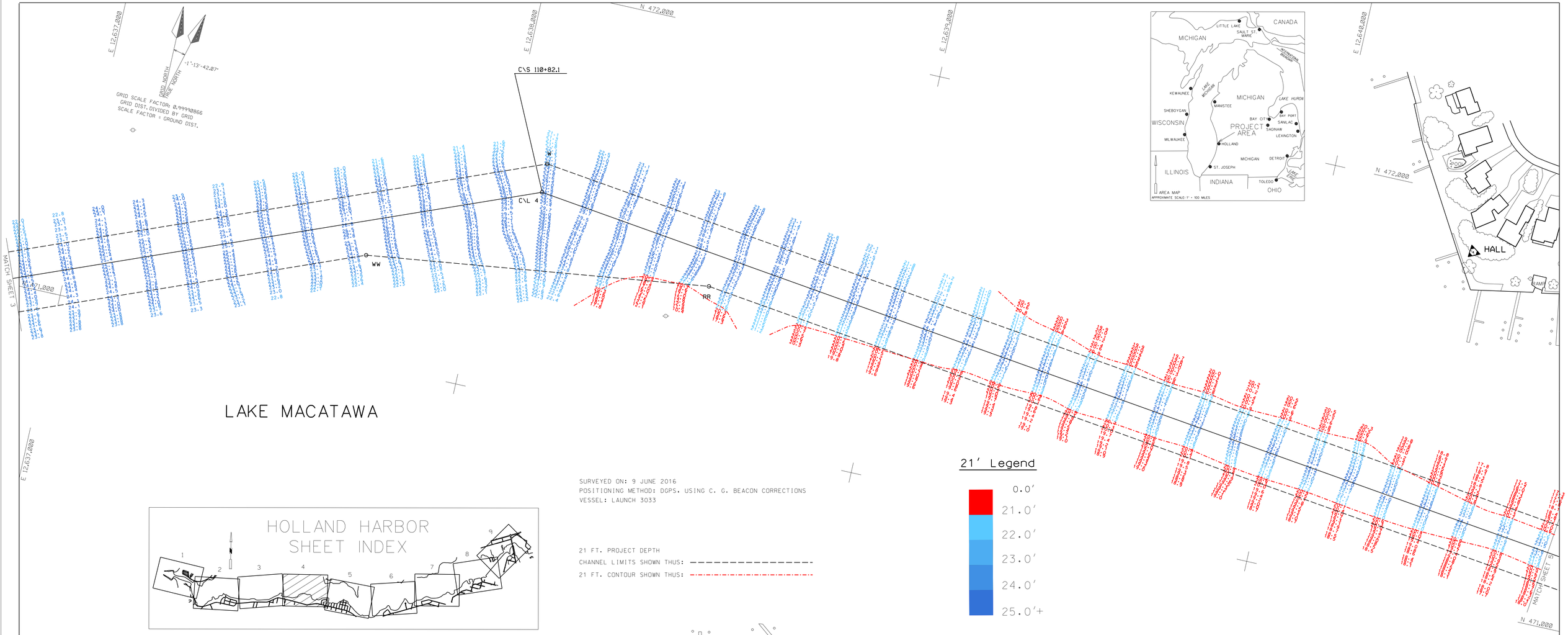


## 21' Legend

- 0.0'
- 21.0'
- 22.0'
- 23.0'
- 24.0'
- 25.0'+

SURVEYED ON: 9 JUNE 2016
POSITIONING METHOD: DGPS. USING C. G. BEACON CORRECTIONS
VESSEL: LAUNCH 3033

21 FT. PROJECT DEPTH
CHANNEL LIMITS SHOWN THUS: - - - - - - - - - - - - - - - -
21 FT. CONTOUR SHOWN THUS: -·-·-·-·-·-·-·-·-·-·-·-

DATE OF PHOTOGRAPHY
19 JULY 1992

| CENTER LINE T.P. | | |
|---|---|---|
| T.P. | EAST X | NORTH Y |
| CL-4 | 12,638,104.68 | 471,507.57 |

| CHANNEL LINE T.P. | | |
|---|---|---|
| T.P. | EAST X | NORTH Y |
| W | 12,638,101.92 | 471,578.57 |
| WW | 12,637,715.12 | 471,261.39 |
| RR | 12,638,557.18 | 471,371.32 |

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 0.3 FT. APPLIED.

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (2113) 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.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL NEAR CROSS SECTION 290+00E IN HOLLAND HARBOR, MI.

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

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

# HOLLAND HARBOR, MICHIGAN
# CONDITION OF CHANNEL
# JUNE 2016
# GRAND HAVEN AREA OFFICE

DRAWN BY
DESIGNED BY
CHECKED BY
REVIEWED:
SUBMITTED: CHIEF, PROJ. OPNS. SECTION
APPROVAL RECOMMENDED: CHIEF, OTS BRANCH
DATE
APPROVED P.E. CHIEF, CONST. OPNS. DIVISION

SCALE 1" = 100'
CADD FILENAME HOC04G16.DGN
DRAWING NUMBER
SHEET 4 OF 9