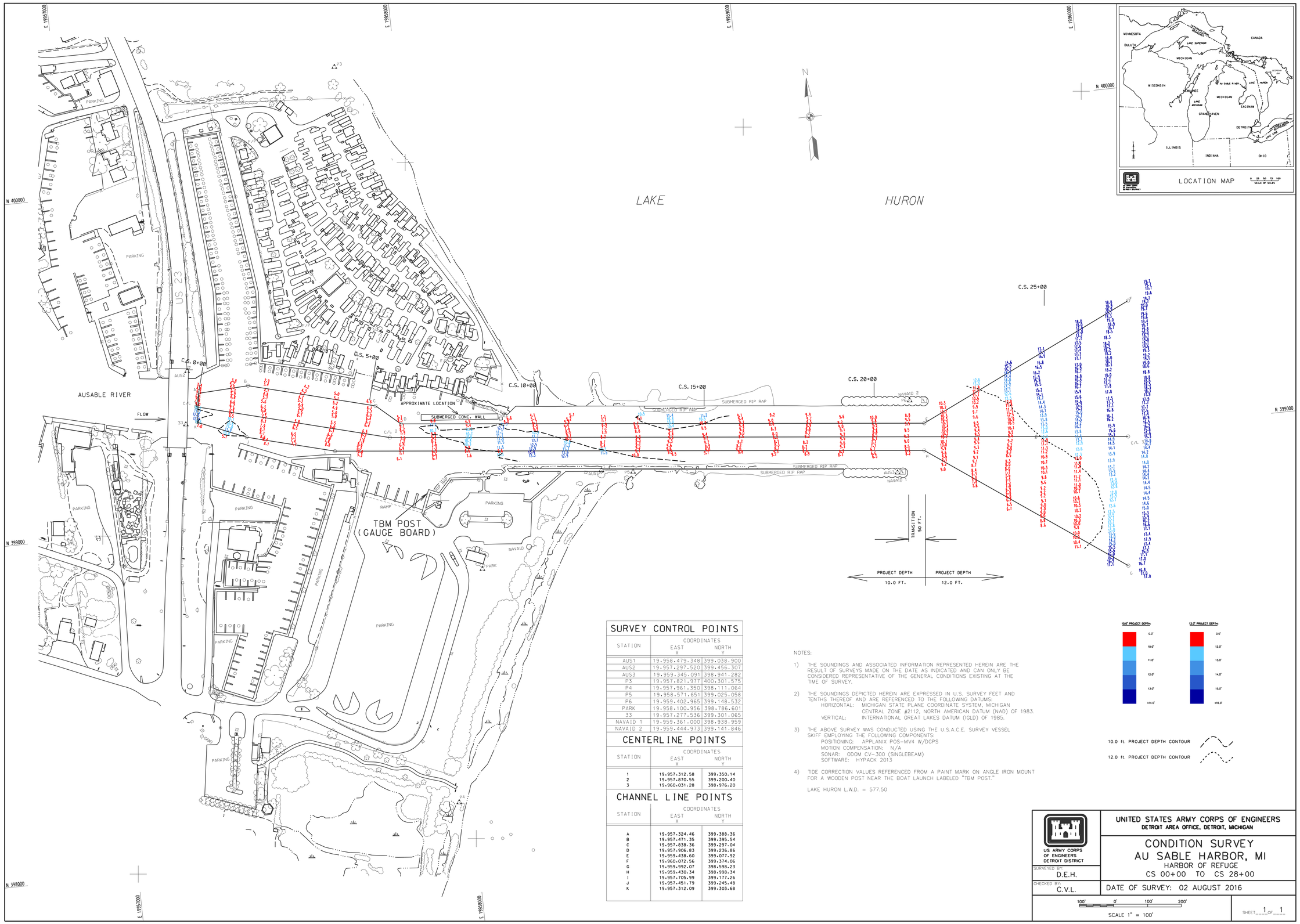


## SURVEY CONTROL POINTS

| STATION | COORDINATES EAST X | COORDINATES NORTH Y |
|---|---|---|
| AUS1 | 19.958.479.348 | 399.038.900 |
| AUS2 | 19.957.297.520 | 399.456.307 |
| AUS3 | 19.959.345.091 | 398.941.282 |
| P3 | 19.957.821.977 | 400.301.575 |
| P4 | 19.957.961.350 | 398.111.064 |
| P5 | 19.958.571.651 | 399.025.058 |
| P6 | 19.959.402.965 | 399.148.532 |
| PARK | 19.958.100.956 | 398.786.601 |
| 33 | 19.957.277.536 | 399.301.065 |
| NAVAID 1 | 19.959.361.000 | 398.938.959 |
| NAVAID 2 | 19.959.444.973 | 399.141.846 |

## CENTERLINE POINTS

| STATION | COORDINATES EAST X | COORDINATES NORTH Y |
|---|---|---|
| 1 | 19.957.312.58 | 399.350.14 |
| 2 | 19.957.870.55 | 399.200.40 |
| 3 | 19.960.031.28 | 398.976.20 |

## CHANNEL LINE POINTS

| STATION | COORDINATES EAST X | COORDINATES NORTH Y |
|---|---|---|
| A | 19.957.324.46 | 399.388.36 |
| B | 19.957.471.35 | 399.395.54 |
| C | 19.957.838.36 | 399.297.04 |
| D | 19.957.906.83 | 399.236.86 |
| E | 19.959.438.60 | 399.077.92 |
| F | 19.960.072.56 | 399.374.06 |
| G | 19.959.992.07 | 398.598.23 |
| H | 19.959.430.34 | 398.998.34 |
| I | 19.957.705.99 | 399.177.26 |
| J | 19.957.451.79 | 399.245.48 |
| K | 19.957.312.09 | 399.303.68 |

NOTES:

1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.

2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
   HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN CENTRAL ZONE #2112, NORTH AMERICAN DATUM (NAD) OF 1983.
   VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL SKIFF EMPLOYING THE FOLLOWING COMPONENTS:
   POSITIONING: APPLANIX POS-MV4 W/DGPS
   MOTION COMPENSATION: N/A
   SONAR: ODOM CV-300 (SINGLEBEAM)
   SOFTWARE: HYPACK 2013

4) TIDE CORRECTION VALUES REFERENCED FROM A PAINT MARK ON ANGLE IRON MOUNT FOR A WOODEN POST NEAR THE BOAT LAUNCH LABELED "TBM POST."

LAKE HURON L.W.D. = 577.50

US ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

UNITED STATES ARMY CORPS OF ENGINEERS
DETROIT AREA OFFICE, DETROIT, MICHIGAN

# CONDITION SURVEY
# AU SABLE HARBOR, MI
HARBOR OF REFUGE
CS 00+00 TO CS 28+00

SURVEYED BY: D.E.H.
CHECKED BY: C.V.L.

DATE OF SURVEY: 02 AUGUST 2016

100' 0' 100' 200'
SCALE 1" = 100'

SHEET 1 OF 1