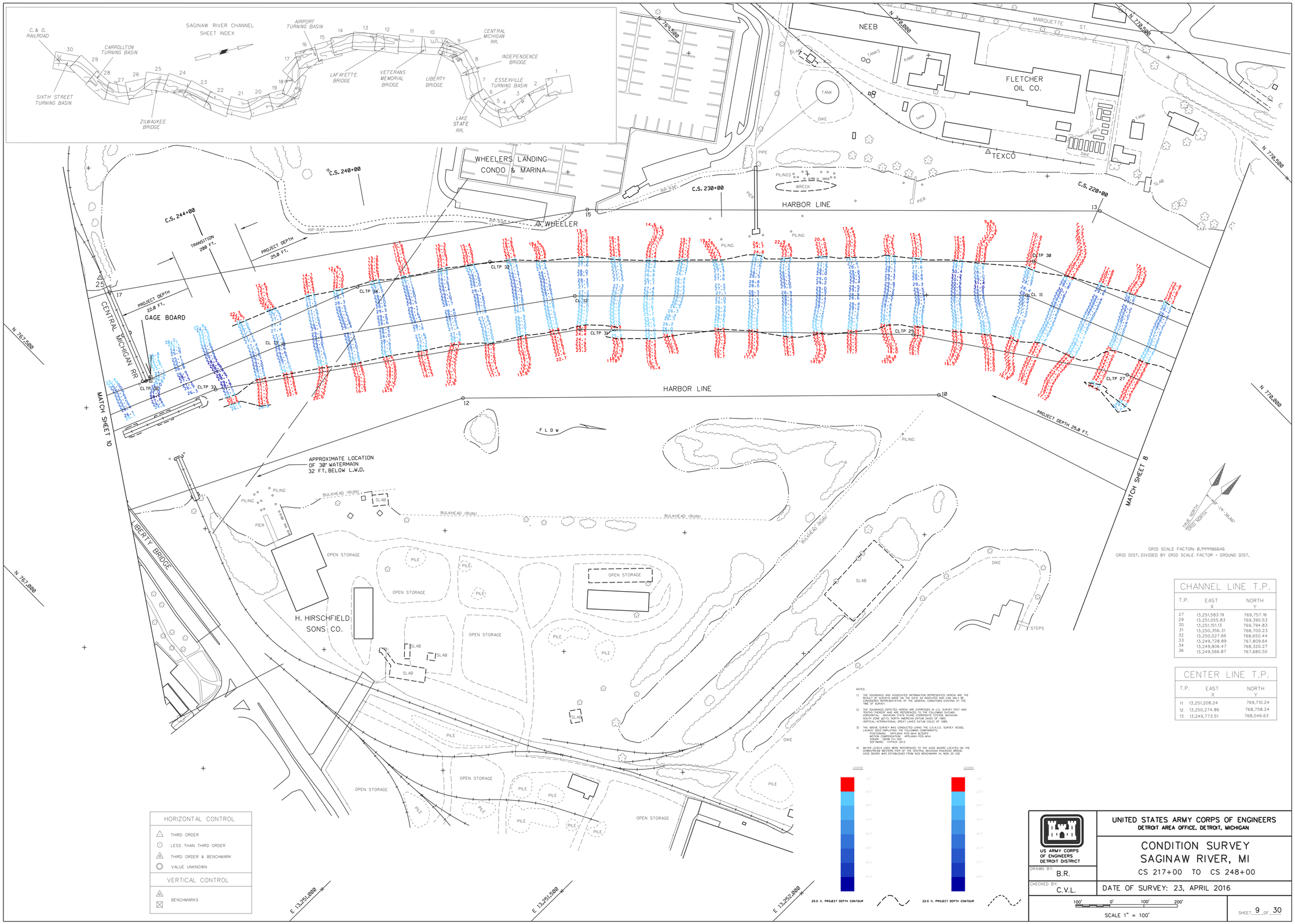

NOTES:

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 SOUTH ZONE #2113, 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 LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV4 W/DGPS
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2013

4) WATER LEVELS USED WERE REFERENCED TO THE GAGE BOARD LOCATED ON THE DOWNSTREAM WESTERN PIER OF THE CENTRAL MICHIGAN RAILROAD BRIDGE. GAGE BOARD WAS ESTABLISHED FROM NGS BENCHMARK HL MON 25 USE.

CHANNEL LINE T.P.

T.P.	EAST X	NORTH Y
27	13,251,583.19	769,757.16
29	13,251,055.83	769,390.53
30	13,251,151.13	769,794.83
31	13,250,356.31	768,700.23
32	13,250,027.66	768,650.44
33	13,249,728.89	767,809.64
34	13,249,806.47	768,320.27
36	13,249,566.87	767,680.50

CENTER LINE T.P.

T.P.	EAST X	NORTH Y
11	13,251,208.24	769,710.24
12	13,250,274.86	768,758.24
13	13,249,773.51	768,046.63

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

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

CONDITION SURVEY
SAGINAW RIVER, MI
CS 217+00 TO CS 248+00

DRAWN BY: B.R.
CHECKED BY: C.V.L.
DATE OF SURVEY: 23, APRIL 2016

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

SHEET 9 OF 30