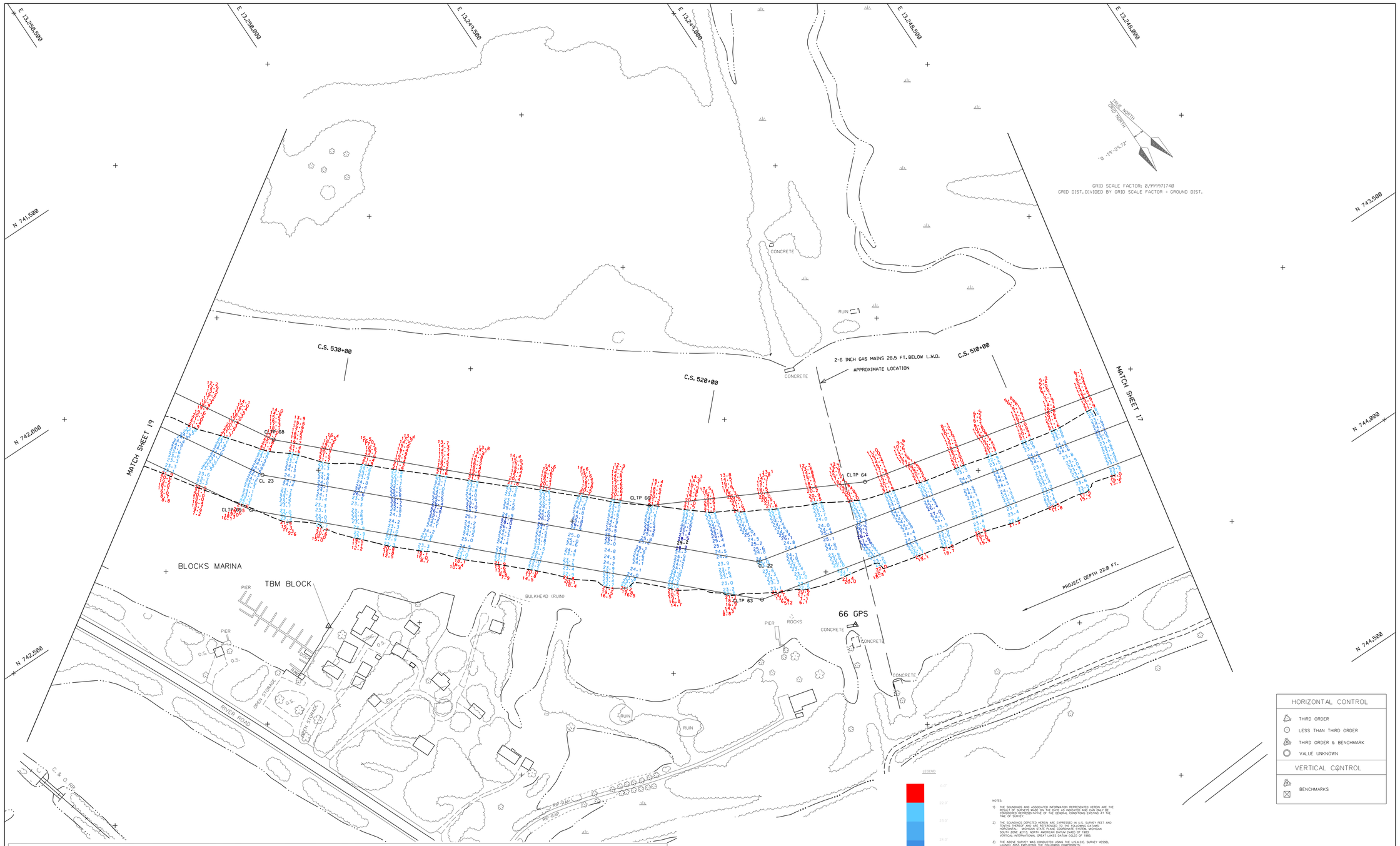

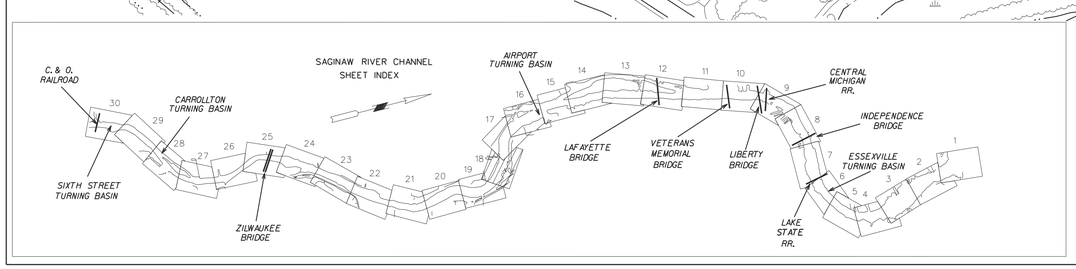

CENTER LINE T.P.		
T.P.	EAST X	NORTH Y
22	13,249,637.92	743,374.59
23	13,250,634.04	742,426.12

CHANNEL LINE T.P.		
T.P.	EAST X	NORTH Y
63	13,249,686.91	743,466.03
64	13,249,274.49	743,354.43
65	13,250,712.83	742,489.18
66	13,249,800.70	743,081.52
68	13,250,555.26	742,363.05

LEGEND

8.0'
22.0'
23.0'
24.0'
25.0'
26.0'
27.0'
>28.0'

22.0 ft. PROJECT DEPTH CONTOUR

NOTES:

1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULTS OF A HYDROGRAPHIC SURVEY. THE SOUNDINGS ARE BELIEVED TO 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 3000 WITH THE FOLLOWING EQUIPMENT COMPONENTS:
POSIONING: APPLANIX POS-MV4 WOOPS
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: ODOM ECHOTRAC 300
SOFTWARE: HYPACK 2013

4) WATER LEVELS USED WERE REFERENCED TO TBM BLOCK (SHEET 18).

HORIZONTAL CONTROL

- THIRD ORDER
- LESS THAN THIRD ORDER
- THIRD ORDER & BENCHMARK
- VALUE UNKNOWN

VERTICAL CONTROL

- BENCHMARKS

US ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

CONDITION SURVEY
SAGINAW RIVER, MI

CS 508+00 TO CS 534+00

DRAWN BY: D.H.

CHECKED BY: C.V.L.

DATE OF SURVEY: 07 JUNE 2016

100' 0' 100' 200'

SCALE 1" = 100'