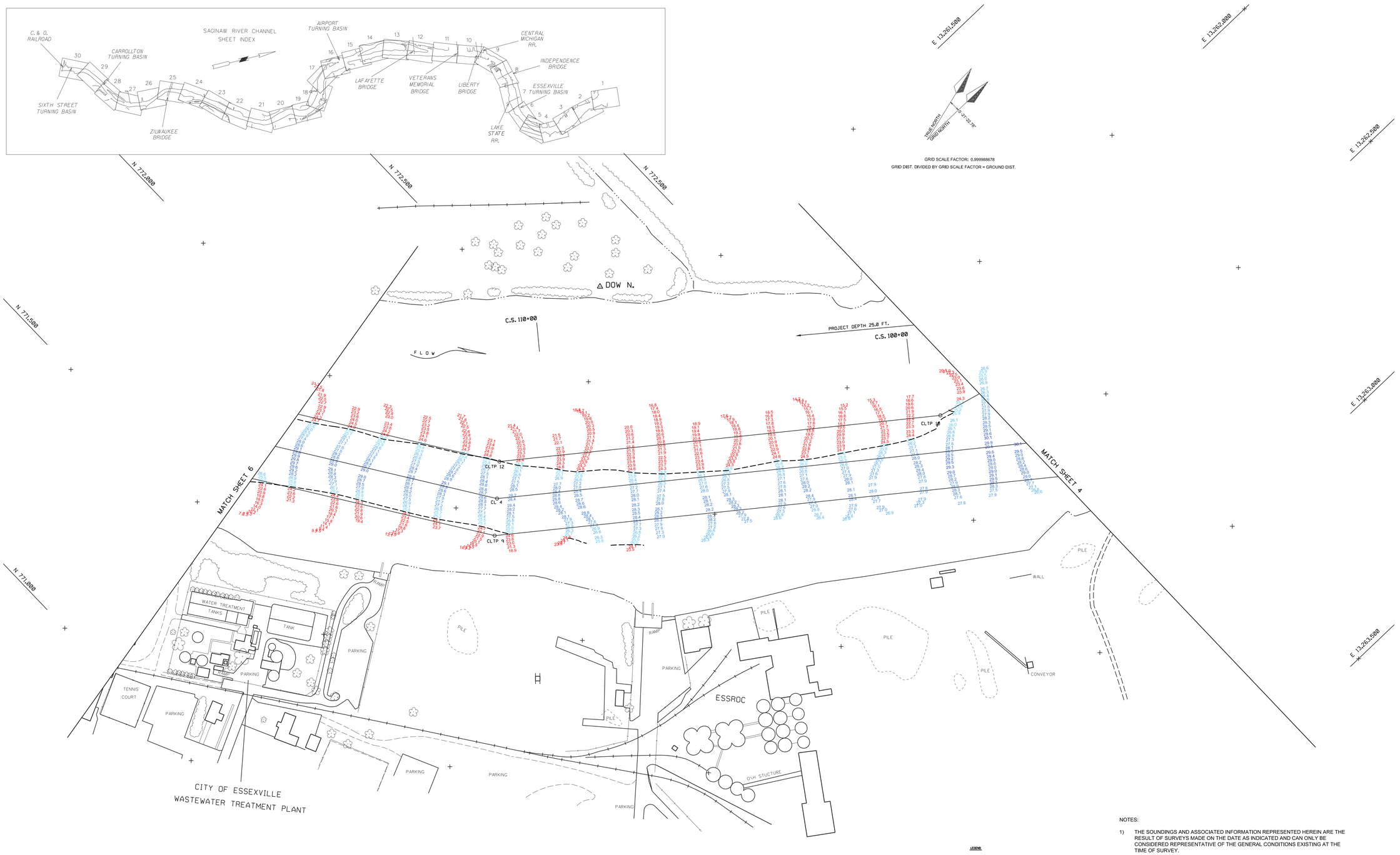

HORIZONTAL CONTROL	
△	THIRD ORDER
⊙	LESS THAN THIRD ORDER
△	THIRD ORDER & BENCHMARK
○	VALUE UNKNOWN
VERTICAL CONTROL	
△	BENCHMARKS

CHANNEL LINE T.P.

T.P.	EAST X	NORTH Y
9	13,261,558.74	772,098.92
10	13,262,230.29	773,132.28
12	13,261,489.94	772,173.44

CENTER LINE T.P.

T.P.	EAST X	NORTH Y
4	13,261,627.54	772,024.40

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 2015

4) WATER LEVELS USED WERE REFERENCED TO THE GAGE BOARD LOCATED ON THE DOWNSTREAM END OF THE CENTER PIER OF THE LAKE STATE RAILROAD BRIDGE.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
477 MICHIGAN AVE
DETROIT, MI 48226

DETROIT AREA OFFICE
6309 WEST JEFFERSON AVE
DETROIT, MI 48209

SURVEYED BY: NB, CL
DWN BY: NB
CKD BY: BR
SUBMITTED BY: Christopher V. Lindman
PLOT SCALE: 1" = 100'
PLOT DATE: 9 JUL 2018
SIZE: ANSI E
FILE NAME: Saginaw River 5.dgn
DATE OF SURVEY: 2 JUL 2018
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:

SAGINAW RIVER MICHIGAN

CONDITION OF CHANNEL
2 JULY 2018

SHEET IDENTIFICATION

SHEET 5 OF 30