

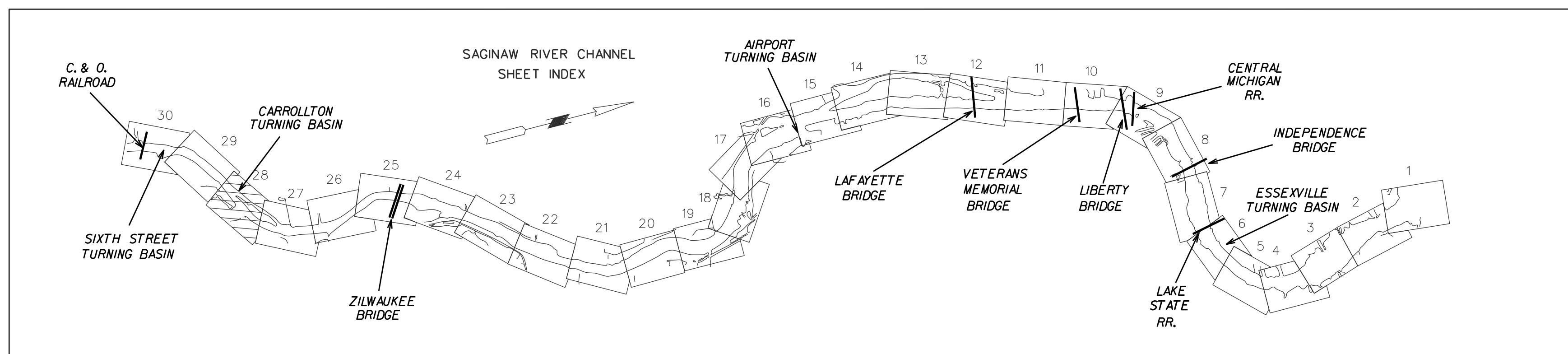
E

D

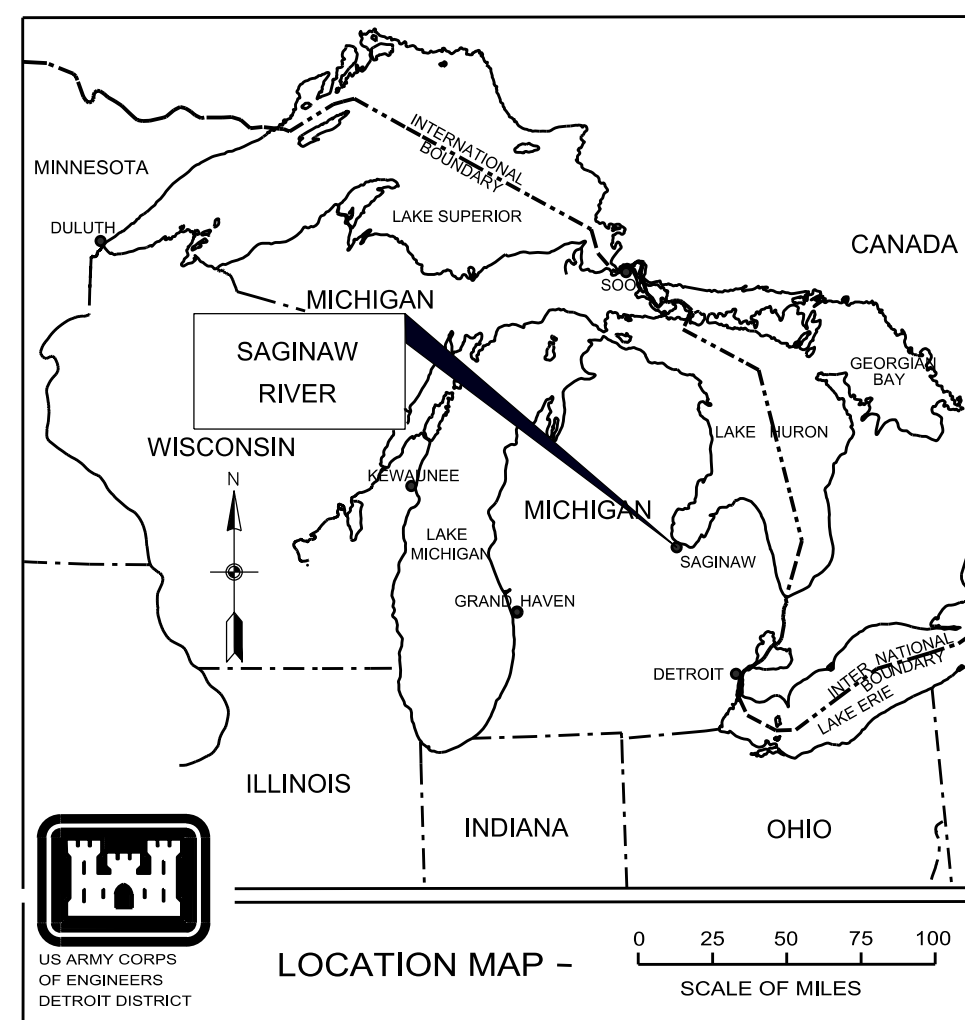
C

B

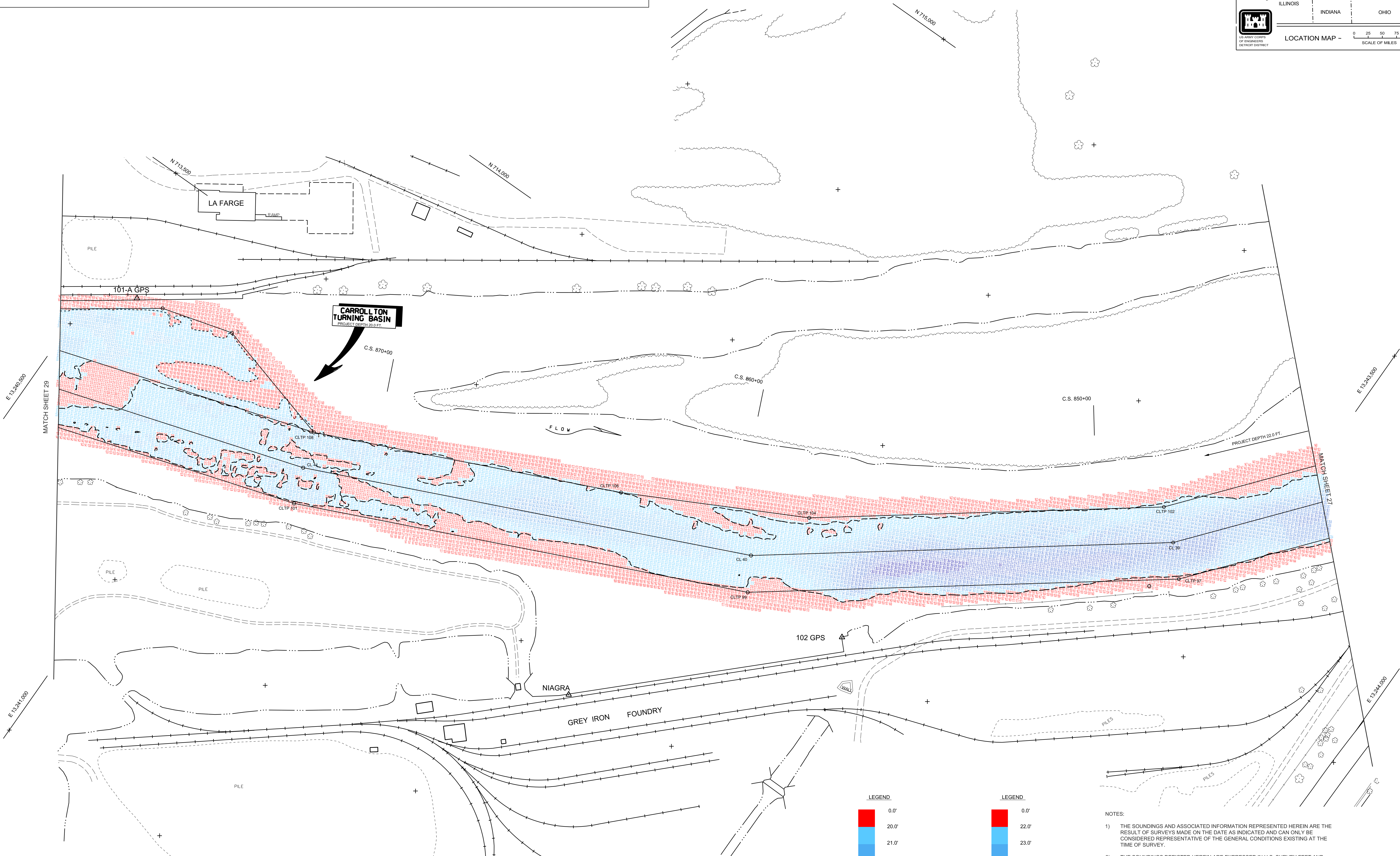
A



GRID SCALE FACTOR: 0.999954405
GRID DIST. DIVIDED BY GRID SCALE FACTOR = GROUND DIST.



US Army Corps
of Engineers



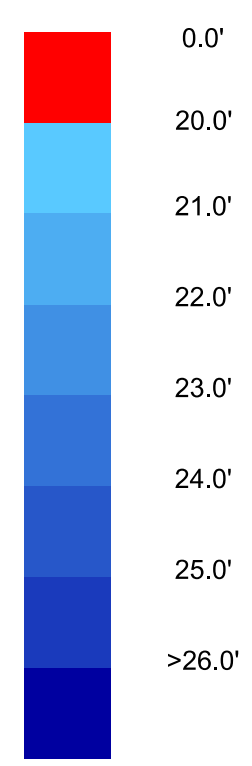
CHANNEL LINE T.P.		
T.P.	EAST X	NORTH Y
97	13,243,368.44	714,166.19
99	13,242,428.99	713,462.09
101	13,241,278.53	712,950.19
102	13,243,222.40	714,303.38
104	13,242,449.46	713,724.08
106	13,241,990.95	713,485.94
108	13,241,212.57	713,139.30

CENTER LINE T.P.		
T.P.	EAST X	NORTH Y
39	13,243,288.58	714,238.59
40	13,242,378.72	713,549.17
41	13,241,244.22	713,043.93

TURNING BASIN T.P.		
T.P.	EAST X	NORTH Y
1	13,241,212.57	713,139.30
2	13,240,874.45	713,232.80
3	13,240,681.89	713,178.75
4	13,240,389.50	712,971.20

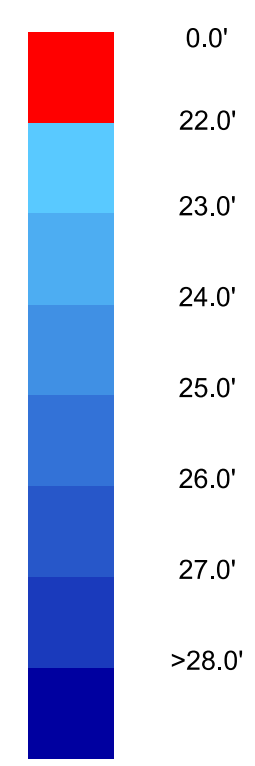
HORIZONTAL CONTROL	
△	THIRD ORDER
○	LESS THAN THIRD ORDER
△	THIRD ORDER & BENCHMARK
○	VALUE UNKNOWN
VERTICAL CONTROL	
△	BENCHMARKS

LEGEND



20.0 ft. PROJECT DEPTH CONTOUR

LEGEND



22.0 ft. PROJECT DEPTH CONTOUR

NOTES:

- 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.
- 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.
L.W.D. = 577.5' UNLESS OTHERWISE NOTED.
- THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL WHEELER EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV4 W/VRS-RTK OR MARINESTAR G2+
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2 SONIC 2024
SOFTWARE: HYPACK 2018
- WATER LEVELS USED WERE REFERENCED TO TBM FARM BUREAU.
- THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10 FOOT BY 10 FOOT AREA CENTERED ON THE TEXT. DERIVED FROM A 1 FOOT BY 1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

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

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SUBMITTED BY:
DATE: 11/11/2019
FILE NAME: 6309 WEST JEFFERSON AVE
DETROIT, MI 48209

SAGINAW RIVER
MICHIGAN

POST DEGREE SURVEY
30 JULY 2019

SHEET
IDENTIFICATION