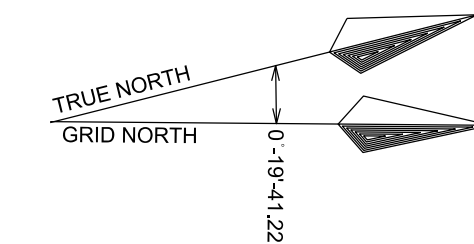
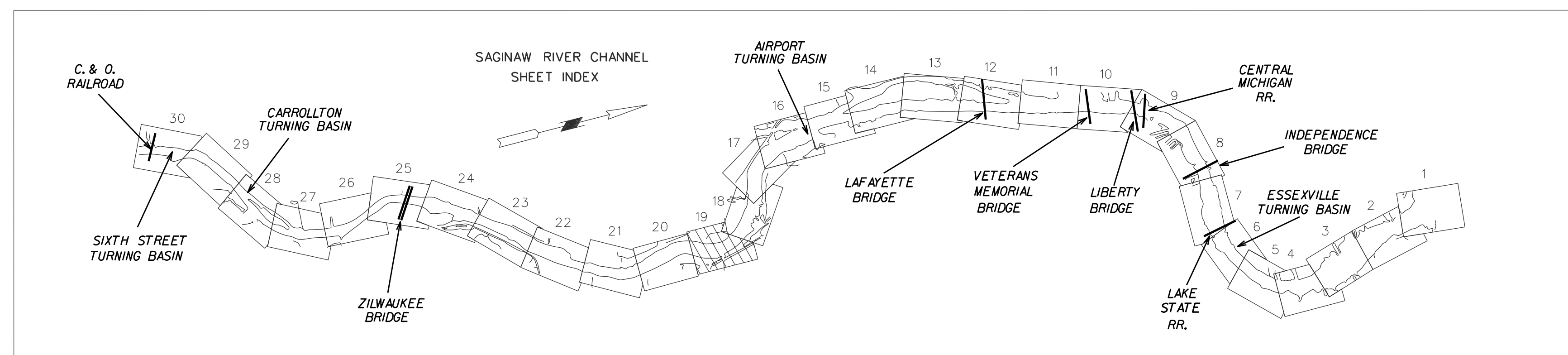




US Army Corps
of Engineers



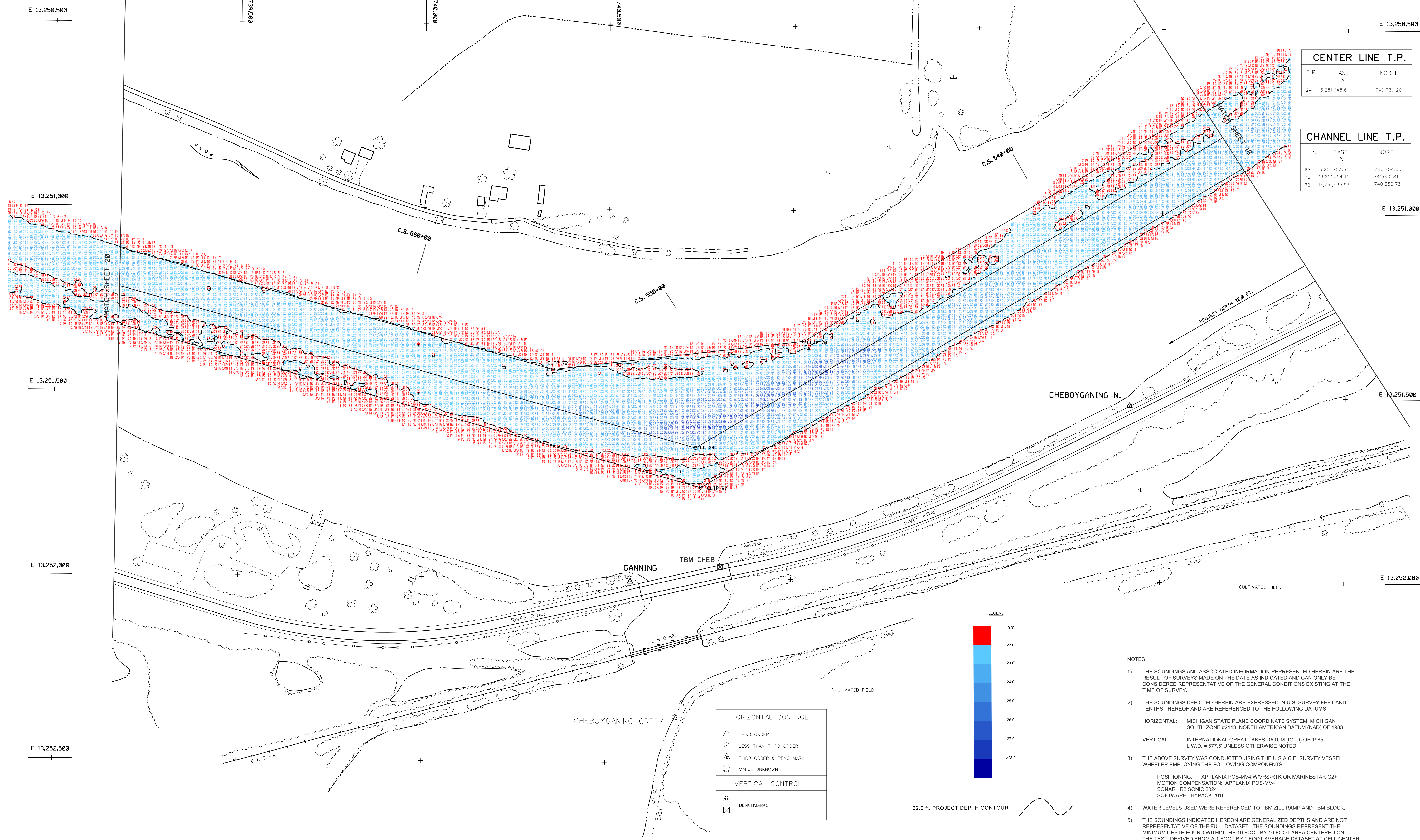
GRID SCALE FACTOR: 0.999979490
GRID DIST. DIVIDED BY GRID SCALE FACTOR = FOLLOWING DIST.

CENTER LINE T.P.

T.P.	EAST X	NORTH Y
24	13,251,645.61	740,739.20

CHANNEL LINE T.P.

T.P.	EAST X	NORTH Y
67	13,251,753.31	740,794.03
70	13,251,354.14	741,030.81
72	13,251,435.93	740,350.73



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 WYRS-RTK OR MARINESTAR G2+
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2 SONIC 2024
SOFTWARE: HYPACK 2018
- WATER LEVELS USED WERE REFERENCED TO TBM ZILL RAMP AND TBM BLOCK.
- 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/SWAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

DESIGNED BY: DETROIT DISTRICT DETROIT, MI 48225	DRAWN BY: DETROIT DISTRICT DETROIT, MI 48225	DATE: AUGUST 2019
APPROVED BY: DETROIT DISTRICT DETROIT, MI 48225	CONTRACT NO.: DETROIT DISTRICT DETROIT, MI 48225	DATE: AUGUST 2019
PROJECT NAME: SAGINAW RIVER MICHIGAN	FILE NUMBER: DETROIT DISTRICT DETROIT, MI 48225	DATE: AUGUST 2019

SAGINAW RIVER
MICHIGAN
POST DEGREE SURVEY
AUGUST 2019

SHEET
IDENTIFICATION