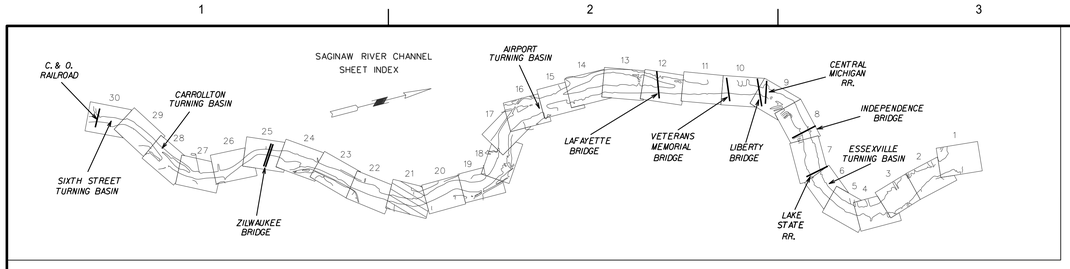

TRUE NORTH
GRID NORTH
01°49'43.69"

GRID SCALE FACTOR: 0.999966706
GRID DIST. DIVIDED BY GRID SCALE FACTOR = GROUND DIST.

N 735,000
N 735,500
N 736,000
N 733,000
N 733,500
N 734,000
E 13,249,500
E 13,250,000
E 13,251,000
E 13,251,500
E 13,252,000
E 13,252,500

ABANDONDED R.R.
MELBORNE RD.
MELBORNE RD.
RIVER RD.
RIVER RD.
PARKING

△ SESTAK S.
76 A

C.S. 610+00
C.S. 620+00
C.S. 630+00

CL 21
CL 18
CL 15
CL 28
CLTP 78
CLTP 78A
CLTP 75

PROJECT DEPTH 22.0 FT.

MATCH SHEET 21
MATCH SHEET 22

FLOW

CENTER LINE T.P.		
T.P.	EAST X	NORTH Y
27	13,251,554.24	735,077.85
28	13,251,420.09	734,262.05

CHANNEL LINE T.P.		
T.P.	EAST X	NORTH Y
73	13,251,655.88	735,079.52
75	13,251,516.53	734,232.08
76	13,251,414.46	735,266.97
78	13,251,343.37	734,453.62
78A	13,251,235.49	734,105.55

HORIZONTAL CONTROL
- △ THIRD ORDER
- ⊙ LESS THAN THIRD ORDER
- ◬ THIRD ORDER & BENCHMARK
- ◯ VALUE UNKNOWN

VERTICAL CONTROL
- ◬ BENCHMARKS
- ⊠

LEGEND

	0.0'
	22.0'
	23.0'
	24.0'
	25.0'
	26.0'
	27.0'
	>28.0'

22.0 ft. PROJECT DEPTH CONTOUR

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

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. L.W.D. = 577.5' UNLESS OTHERWISE NOTED.

3) 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

4) WATER LEVELS USED WERE REFERENCED TO TBM ZILL RAMP AND TBM FARM.

5) 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/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR. MARK	DESCRIPTION

SURVEYED BY: BR, NG, GM
DATE OF SURVEY: 10 JUL 2019
SOLICITATION NO.:
DWN BY: BR
CHD BY: BR
CONTRACT NO.:
SUBMITTED BY: Frederick A. Fabrizio
DATE SUBMITTED: 15 JUL 2019
FILE NUMBER:
SCALE: 1" = 100'
SIZE: ARCH E
FILE NAME:

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

DETROIT AREA OFFICE
6309 WEST JEFFERSON AVE
DETROIT, MI 48209

SAGINAW RIVER MICHIGAN

CONDITION SURVEY
JULY 2019

SHEET IDENTIFICATION

SHEET 21 OF 30