

CHANNEL LINE TURNING POINTS

STATION	EAST	NORTH
22	13.629.851.41	546.618.30
23	13.639.658.04	546.847.60
24	13.639.431.56	546.970.09
25	13.639.186.58	546.971.84
26	13.638.443.11	546.749.12
27	13.638.138.70	546.857.44
28	13.637.889.91	547.174.25
29	13.638.151.52	548.559.98
30	13.638.036.61	549.243.67
31	13.638.110.59	549.255.91
32	13.638.227.68	548.559.12
33	13.637.969.93	547.193.80
34	13.638.184.29	546.920.83
35	13.638.445.11	546.828.02
36	13.639.175.85	547.046.92
37	13.639.450.80	547.044.96
38	13.639.708.04	546.905.82
39	13.639.896.49	546.656.58

CONTROL POINTS (G.P.S.)

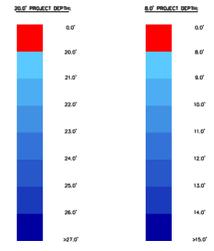
STATION	EAST	NORTH
49	13638242.3490	549187.6630
MON 22	13638019.5170	546810.9560

CENTERLINE TURNING POINTS

STATION	EAST	NORTH
11	13.639.863.95	546.637.44
12	13.639.683.04	546.876.71
13	13.639.441.18	547.007.52
14	13.639.181.21	547.009.38
15	13.638.444.11	546.788.57
16	13.638.161.50	546.889.13
17	13.637.929.92	547.184.03
18	13.638.189.60	548.559.55
19	13.638.075.38	549.250.08

CONTROL POINTS (CORPSCON)

STATION	EAST	NORTH
KAY	13.639.145.48	547.162.59
MON 19	13.639.104.78	546.869.26
MON 20	13.638.896.64	546.802.79



- 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.
 - THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL SKIFF EMPLOYING THE FOLLOWING COMPONENTS:
 POSITIONING: TRIMBLE BLUE DGPS WITH CORRECTIONS FROM BEACON FREQ 319
 MOTION COMPENSATION: N/A
 SONAR: ODOM CV-300 (SINGLEBEAM)
 SOFTWARE: HYDACK 2013
 - TIDE CORRECTION VALUES REFERENCED FROM A PAINT MARK ON SEAWALL DESCRIBED AS "TIDE LINE" LOCATED ON TOP OF STEEL WALL SOUTH EAST OF LAUNCH (SHEET 2). ELEVATION IGLD 85 = 582.27.
 MOUTH OF BLACK RIVER L.W.D. = 576.20

	UNITED STATES ARMY CORPS OF ENGINEERS DETROIT AREA OFFICE, DETROIT, MICHIGAN
	CONDITION SURVEY BLACK RIVER, MI CS 62+00 TO CS 107+00
SURVEYED BY: B.R.	DATE OF SURVEY: 17 AUGUST 2016
CHECKED BY: C.V.L.	
SHEET 3 OF 7	