

1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON MAY 16, 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.

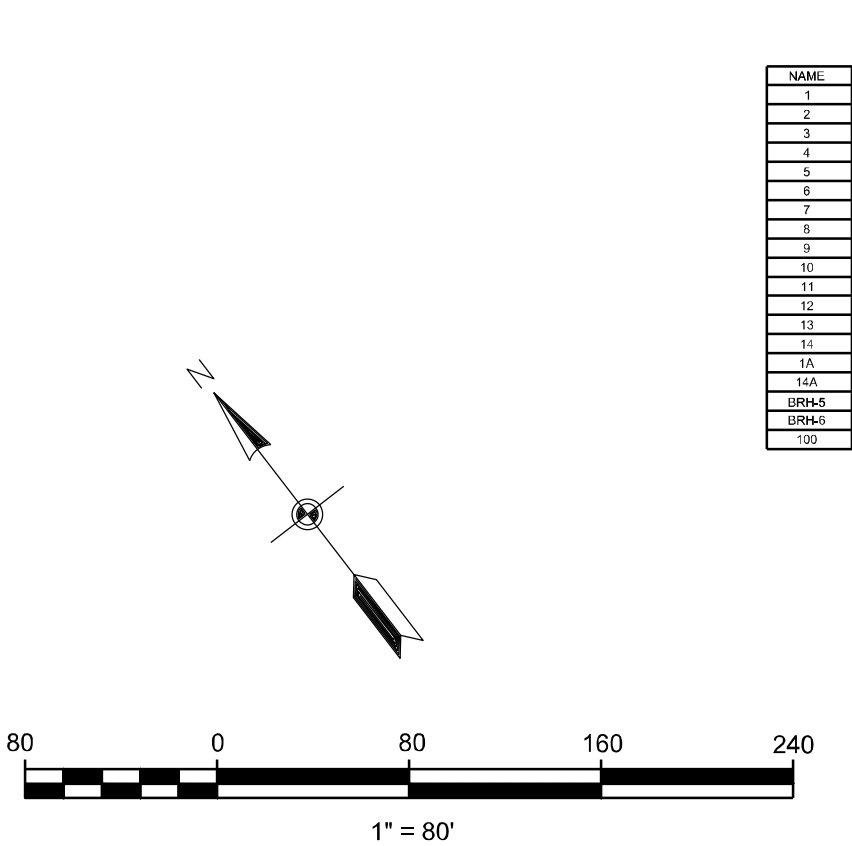
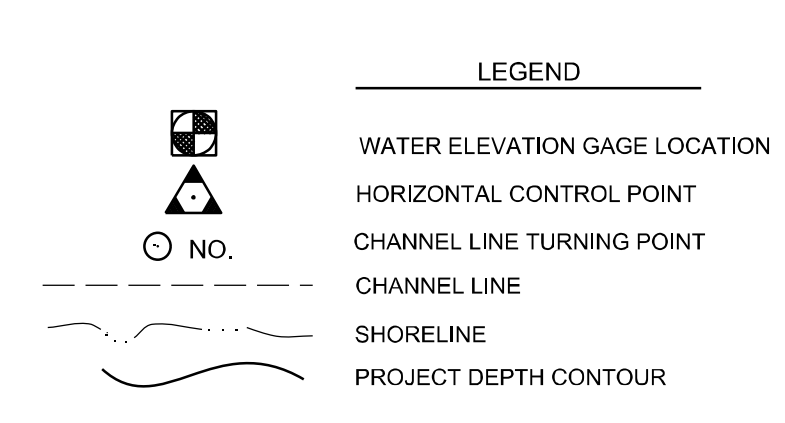
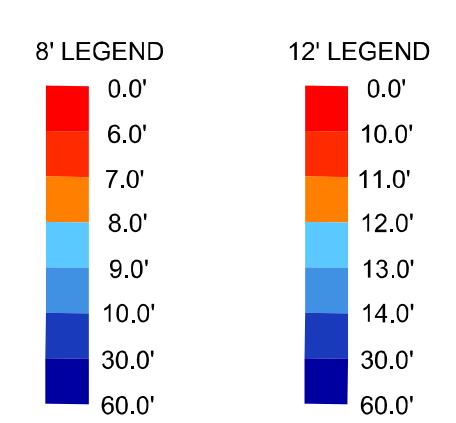
2) SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS. DEPTHS ARE MEASURED USING A ROSS LABORATORIES MODEL 825C PORTABLE SURVEY SOUNDER.

3) HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS (USACE) CONTROL POINT 100. THE GPS RECEIVER IS MANUFACTURED BY TRIMBLE, MODEL SPS751.

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD 83), US SURVEY FOOT.

5) THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING CHARTS AND ARE OUTDATED AND INACCURATE.

6) THE PROJECT DEPTHS FOR THIS AREA ARE 8.0' AND 12.0'.



NAME	DESCRIPTION	NORTHEAST	EASTING
1	CHANNEL BOUNDARY	712220.75	2548150.00
2	CHANNEL BOUNDARY	712222.87	2548150.00
3	CHANNEL BOUNDARY	712225.00	2548150.00
4	CHANNEL BOUNDARY	712227.12	2548150.00
5	CHANNEL BOUNDARY	712229.25	2548150.00
6	CHANNEL BOUNDARY	712231.37	2548150.00
7	CHANNEL BOUNDARY	712233.50	2548150.00
8	CHANNEL BOUNDARY	712235.62	2548150.00
9	CHANNEL BOUNDARY	712237.75	2548150.00
10	CHANNEL BOUNDARY	712239.87	2548150.00
11	CHANNEL BOUNDARY	712242.00	2548150.00
12	CHANNEL BOUNDARY	712244.12	2548150.00
13	CHANNEL BOUNDARY	712246.25	2548150.00
14	CHANNEL BOUNDARY	712248.37	2548150.00
15	CHANNEL BOUNDARY	712250.50	2548150.00
16	CHANNEL BOUNDARY	712252.62	2548150.00
17	CHANNEL BOUNDARY	712254.75	2548150.00
18	CHANNEL BOUNDARY	712256.87	2548150.00
19	CHANNEL BOUNDARY	712259.00	2548150.00
20	CHANNEL BOUNDARY	712261.12	2548150.00
21	CHANNEL BOUNDARY	712263.25	2548150.00
22	CHANNEL BOUNDARY	712265.37	2548150.00
23	CHANNEL BOUNDARY	712267.50	2548150.00
24	CHANNEL BOUNDARY	712269.62	2548150.00
25	CHANNEL BOUNDARY	712271.75	2548150.00
26	CHANNEL BOUNDARY	712273.87	2548150.00
27	CHANNEL BOUNDARY	712276.00	2548150.00
28	CHANNEL BOUNDARY	712278.12	2548150.00
29	CHANNEL BOUNDARY	712280.25	2548150.00
30	CHANNEL BOUNDARY	712282.37	2548150.00
31	CHANNEL BOUNDARY	712284.50	2548150.00
32	CHANNEL BOUNDARY	712286.62	2548150.00
33	CHANNEL BOUNDARY	712288.75	2548150.00
34	CHANNEL BOUNDARY	712290.87	2548150.00
35	CHANNEL BOUNDARY	712293.00	2548150.00
36	CHANNEL BOUNDARY	712295.12	2548150.00
37	CHANNEL BOUNDARY	712297.25	2548150.00
38	CHANNEL BOUNDARY	712299.37	2548150.00
39	CHANNEL BOUNDARY	712301.50	2548150.00
40	CHANNEL BOUNDARY	712303.62	2548150.00
41	CHANNEL BOUNDARY	712305.75	2548150.00
42	CHANNEL BOUNDARY	712307.87	2548150.00
43	CHANNEL BOUNDARY	712310.00	2548150.00
44	CHANNEL BOUNDARY	712312.12	2548150.00
45	CHANNEL BOUNDARY	712314.25	2548150.00
46	CHANNEL BOUNDARY	712316.37	2548150.00
47	CHANNEL BOUNDARY	712318.50	2548150.00
48	CHANNEL BOUNDARY	712320.62	2548150.00
49	CHANNEL BOUNDARY	712322.75	2548150.00
50	CHANNEL BOUNDARY	712324.87	2548150.00
51	CHANNEL BOUNDARY	712327.00	2548150.00
52	CHANNEL BOUNDARY	712329.12	2548150.00
53	CHANNEL BOUNDARY	712331.25	2548150.00
54	CHANNEL BOUNDARY	712333.37	2548150.00
55	CHANNEL BOUNDARY	712335.50	2548150.00
56	CHANNEL BOUNDARY	712337.62	2548150.00
57	CHANNEL BOUNDARY	712339.75	2548150.00
58	CHANNEL BOUNDARY	712341.87	2548150.00
59	CHANNEL BOUNDARY	712344.00	2548150.00
60	CHANNEL BOUNDARY	712346.12	2548150.00
61	CHANNEL BOUNDARY	712348.25	2548150.00
62	CHANNEL BOUNDARY	712350.37	2548150.00
63	CHANNEL BOUNDARY	712352.50	2548150.00
64	CHANNEL BOUNDARY	712354.62	2548150.00
65	CHANNEL BOUNDARY	712356.75	2548150.00
66	CHANNEL BOUNDARY	712358.87	2548150.00
67	CHANNEL BOUNDARY	712361.00	2548150.00
68	CHANNEL BOUNDARY	712363.12	2548150.00
69	CHANNEL BOUNDARY	712365.25	2548150.00
70	CHANNEL BOUNDARY	712367.37	2548150.00
71	CHANNEL BOUNDARY	712369.50	2548150.00
72	CHANNEL BOUNDARY	712371.62	2548150.00
73	CHANNEL BOUNDARY	712373.75	2548150.00
74	CHANNEL BOUNDARY	712375.87	2548150.00
75	CHANNEL BOUNDARY	712378.00	2548150.00
76	CHANNEL BOUNDARY	712380.12	2548150.00
77	CHANNEL BOUNDARY	712382.25	2548150.00
78	CHANNEL BOUNDARY	712384.37	2548150.00
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80	CHANNEL BOUNDARY	712388.62	2548150.00
81	CHANNEL BOUNDARY	712390.75	2548150.00
82	CHANNEL BOUNDARY	712392.87	2548150.00
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86	CHANNEL BOUNDARY	712401.37	2548150.00
87	CHANNEL BOUNDARY	712403.50	2548150.00
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89	CHANNEL BOUNDARY	712407.75	2548150.00
90	CHANNEL BOUNDARY	712409.87	2548150.00
91	CHANNEL BOUNDARY	712412.00	2548150.00
92	CHANNEL BOUNDARY	712414.12	2548150.00
93	CHANNEL BOUNDARY	712416.25	2548150.00
94	CHANNEL BOUNDARY	712418.37	2548150.00
95	CHANNEL BOUNDARY	712420.50	2548150.00
96	CHANNEL BOUNDARY	712422.62	2548150.00
97	CHANNEL BOUNDARY	712424.75	2548150.00
98	CHANNEL BOUNDARY	712426.87	2548150.00
99	CHANNEL BOUNDARY	712429.00	2548150.00
100	CHANNEL BOUNDARY	712431.12	2548150.00

**US Army Corps of Engineers**

ISSUE DATE: 2-08-2019  
SOLICITATION NO.:  
CONTRACT NO.:  
DRAWING NUMBER:  
FILE NAME: BLK01C191.dgn  
SIZE: 14.4 MB

SURVEYED BY: ALA/KRG  
DRAWN BY: JAW  
REVIEWED BY: CAW  
APPROVED BY: [Signature]

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

DULUTH AREA OFFICE  
901 MINNESOTA AVE  
DULUTH, MN 55802

BLACK RIVER HARBOR  
MICHIGAN

CONDITION OF CHANNEL  
MAY 2019

SHEET 1 of 1  
BLK 01