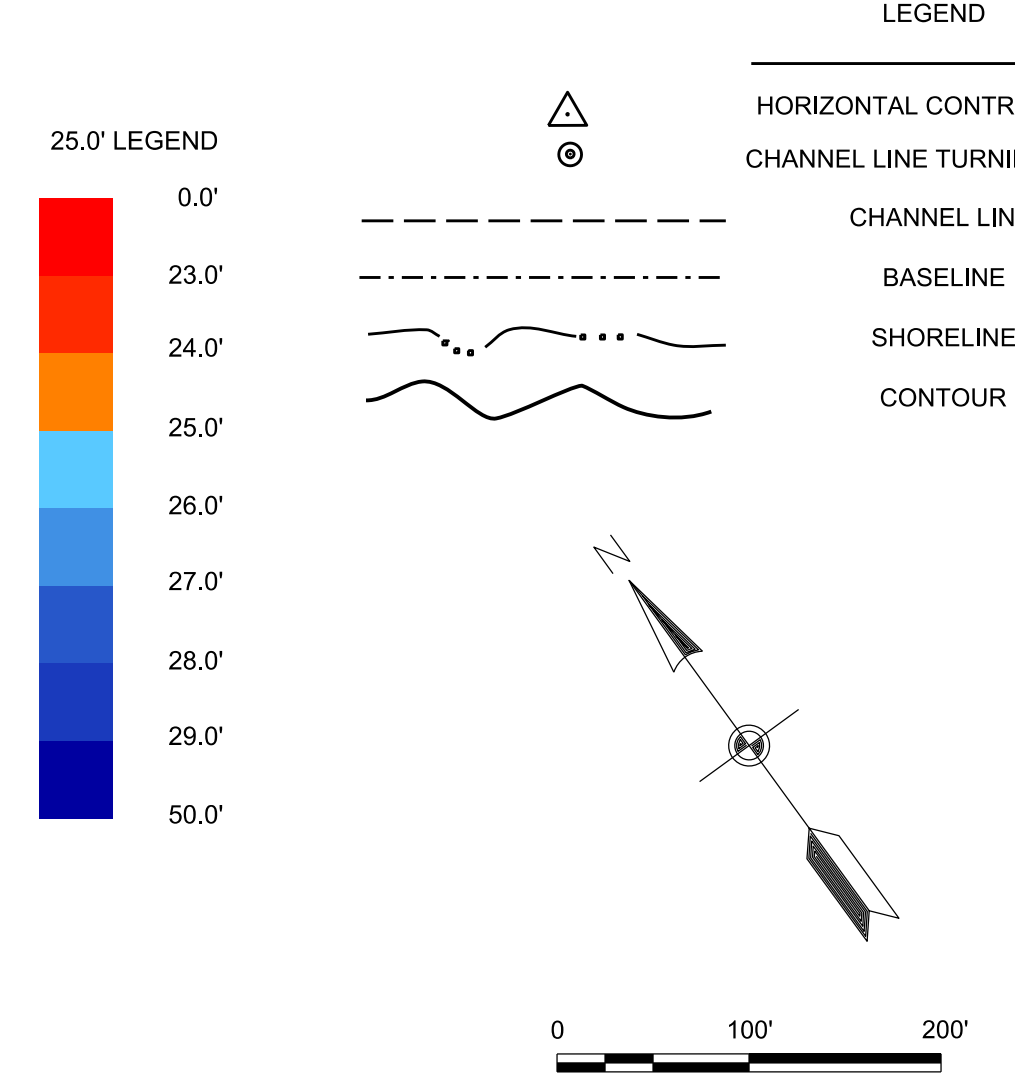


- NOTES
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JUNE 05, 2018 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
 - SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM (LWD) ELEVATION IS 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES. DEPTHS ARE MEASURED USING A ROSS 8028 SINGLE BEAM DEPTH SOUNDER.
 - 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) TEMPORARY CONTROL POINT 2, ON TOP OF THE PRINCESS POINT RANGE FRONT BEACON, ON THE WEST SIDE OF THE FEDERAL NAVIGATION CHANNEL, NEAR STATION 1053+00. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSIMV VER. 4.0.
 - GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (2111), NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
 - THE PROJECT DEPTH FOR THIS AREA IS 25'.



COORDINATE TABLE

STATION	DESCRIPTION	COORDINATES	
		NORTHING	EASTING
BARBEOUE	ALUM. CAP.	818411.293	258818.75533
DRUM	ALUM. CAP.	81744.473	258918.453
RED LT	NAVIC. AID.	818494.275	2587320.825
RED LT #20	NAVIC. AID.	81386.958	2587373.528
PT 75	E. CHANNEL LINE	821349.5	25878545.7
PT 77	E. CHANNEL LINE	81468.8	25874736.8
PT 79	E. CHANNEL LINE	80946.8	2588585.57
PT 8	CENTERLINE	828931.7	25878728.0
PT 1	CENTERLINE	88545.6	2588861.7
PT 72	W. CHANNEL LINE	819957.8	25878592.0
PT 74	W. CHANNEL LINE	809422.7	25887863.4

US Army Corps of Engineers

DATE	DESCRIPTION	DATE	DESCRIPTION

DATE	DESCRIPTION

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

FILE NAME: 11-KWW-2018
 DRAWING NO: 880 LAKE WHEELER SOUTH
 DULUTH, MN 55802

PROJECT: KEEWEENAW WATERWAY
 MICHIGAN

CONDITION OF CHANNEL
 JUNE 2018

SHEET IDENTIFICATION
 KWW 18