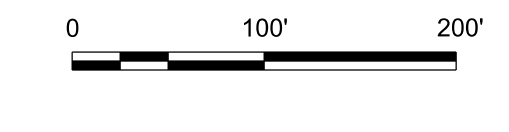
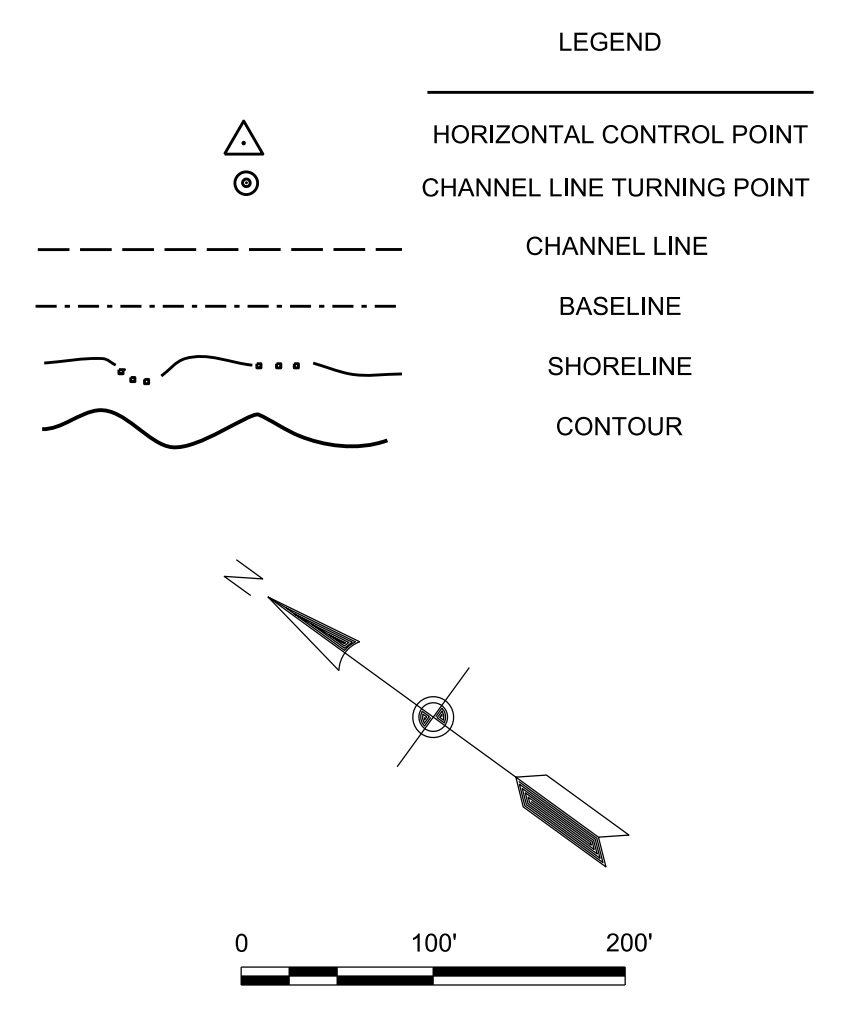
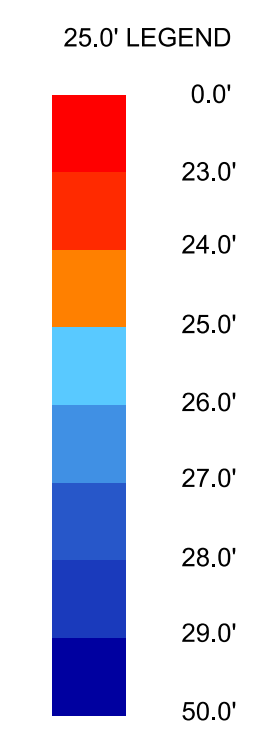


- NOTES
1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JUNE 05, 2016 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
 2. SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM (LWD) ELEVATION 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 825B SINGLE BEAM DEPTH SOUNDING.
 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 133, A PPKI, SET IN THE CONCRETE AT THE NORTH EAST SIDE OF A DOCK WALL AT KEWEENAW PARK ON NORTH ENTRY ROAD, NORTHERLY OF THE NORTHERN MOST DOLLARD. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSIMV, VER. 4.0.
 4. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (211), NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
 5. THE PROJECT DEPTH FOR THIS AREA IS 25'.



COORDINATE TABLE

STATION	DESCRIPTION	NORTHING	EASTING
LIGHT	BRONZE CAP	889175.785	2588767.248
M. MESSNER	ALUM. DISC	889923.219	25887636.882
GRN L1 -10	NAVIC. AID	888531.693	25887808.177
GRN L1 +10	NAVIC. AID	889833.568	25887823.477
PT. 77	E. CHANNEL LINE	819168.3	25874736.8
PT. 29	E. CHANNEL LINE	889427.5	2588852.2
PT. 81	E. CHANNEL LINE	88761.4	2588774.4
PT. 5	CENTERLINE	820051.7	25876726.0
PT. 1	CENTERLINE	889435.6	25888017.7
PT. 10	CENTERLINE	887756.5	25886651.4
PT. 22	W. CHANNEL LINE	819957.5	25878992.8
PT. 74	W. CHANNEL LINE	889923.3	25887654.4
PT. 76	W. CHANNEL LINE	888536.4	25888354.5
PT. 78	W. CHANNEL LINE	887925.6	25888367.7

APPROVED BY:	DATE:
DESIGNED BY:	DATE:
DRAWN BY:	DATE:
CHECKED BY:	DATE:
IN CHARGE:	DATE:
PROJECT NO.:	DATE:
CONTRACT NO.:	DATE:
DATE OF SURVEY:	DATE:
SCALE:	DATE:
IMAGE SOURCE:	DATE:
FILE NAME:	DATE:
PROJECT NAME:	DATE:
PROJECT LOCATION:	DATE:
PROJECT DESCRIPTION:	DATE:

U.S. ARMY CORPS OF ENGINEERS
 DETROIT DISTRICT
 DETROIT, MI
 KEEWEENAW WATERWAY
 MICHIGAN
 CONDITION OF CHANNEL
 JUNE 2016