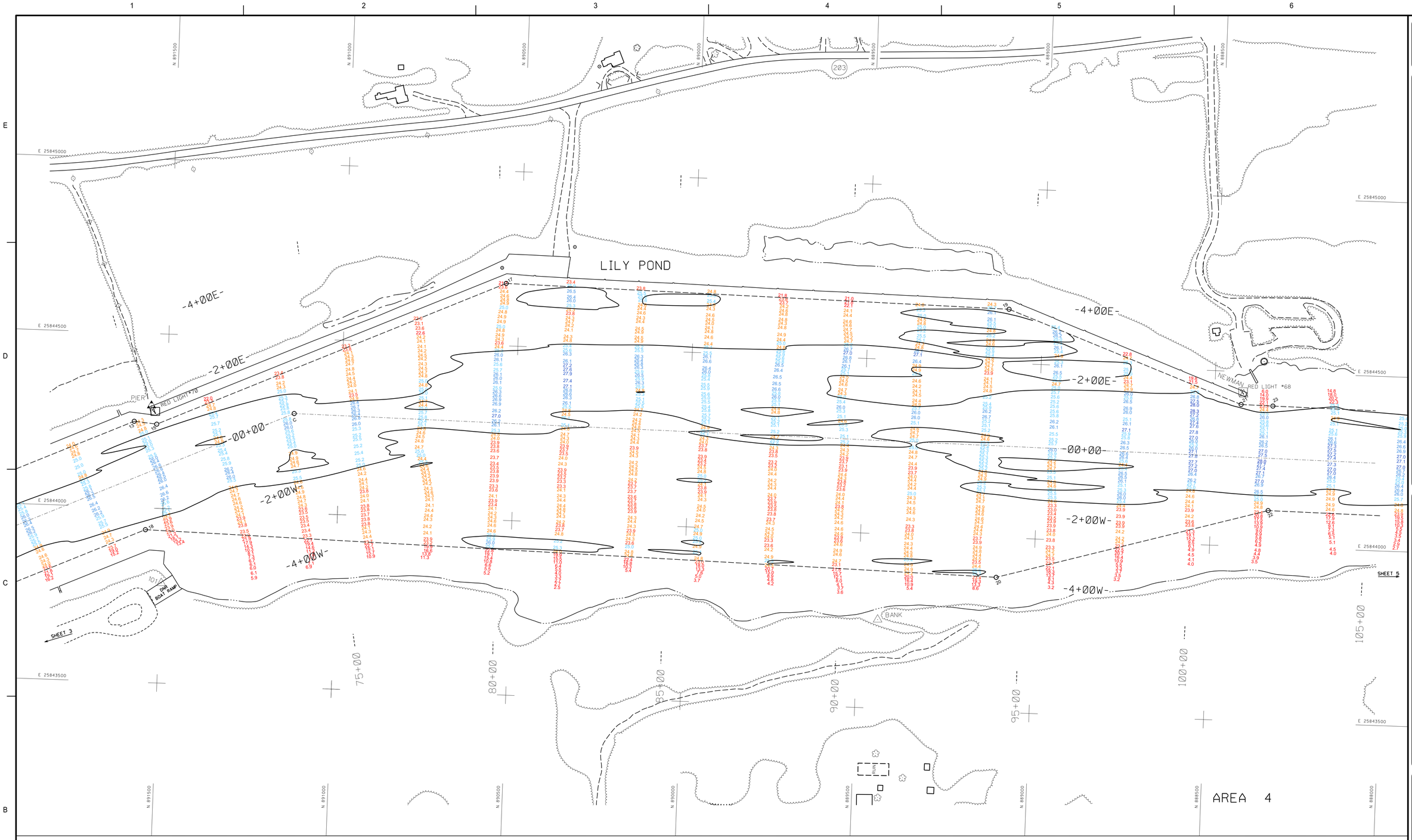

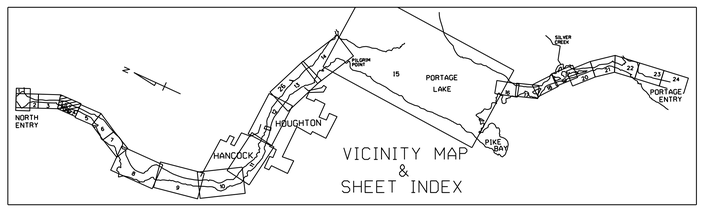

NOTES

1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JUNE 06, 2018 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 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 103, A BRASS DISK STAMPED 'NEWMAN 1991' SET IN CONCRETE AT THE BASE OF NAVIGATION AID NUMBER 68 AT THE END OF A PIER, ON THE SOUTH EAST SIDE OF LILY POND. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER. 4.0.
4. 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.
5. THE PROJECT DEPTH FOR THIS AREA IS 25'.

25.0' LEGEND

0.0'
23.0'
24.0'
25.0'
26.0'
27.0'
28.0'
29.0'
50.0'

LEGEND

- HORIZONTAL CONTROL POINT
- CHANNEL LINE TURNING POINT
- CHANNEL LINE
- BASELINE
- SHORELINE
- CONTOUR

N

0 100' 200'

COORDINATE TABLE

STA.	DESCRIPTION	COORDINATES	
		NORTHING	EASTING
BANK	ALUM. CAP	889442.865	25843753.568
NEWMAN	BRONZE CAP	888417.376	25844434.559
PIER	BRASS. DISK	891543.843	25844293.598
CLARK	ALUM. CAP	892498.647	25843206.355
RED LT*68	NAVIG. AID	888418	25844436
RED LT*70	NAVIG. AID	891531	25844272
GRN LT*71	NAVIG. AID	894958	25842345
RED LT*72	NAVIG. AID	895118	25842721
POINT 11	E. CHANNEL LINE	895236.9	25842631.2
POINT 13	E. CHANNEL LINE	891598.9	25844247.1
POINT 15	E. CHANNEL LINE	891526.1	25844241.0
POINT 17	E. CHANNEL LINE	890539.7	25844679.0
POINT 19	E. CHANNEL LINE	889897.5	25844605.1
POINT 21	E. CHANNEL LINE	888423.7	25844405.7
POINT 23	E. CHANNEL LINE	888332.5	25844404.4
POINT 25	E. CHANNEL LINE	884529.1	25844363.0
POINT 8	CENTER LINE	895175.5	25842493.2
POINT C	CENTER LINE	891133.7	25842685.3
POINT D	CENTER LINE	884544.8	25844212.4
POINT 16	W. CHANNEL LINE	893652.4	25843805.2
POINT 18	W. CHANNEL LINE	891547.7	25843937.8
POINT 20	W. CHANNEL LINE	889107.7	25843886.4
POINT 22	W. CHANNEL LINE	888335.8	25844104.7
POINT 24	W. CHANNEL LINE	885151.5	25844869.5

AREA 4

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR. MARK

SURVEYOR: EVAN BY: ATA ATA KNC
REVIEWED BY:
APPROVED BY:
PLOT SCALE: 1" = 100'
IMAGE DATE:
IMAGE SOURCE:
SIZE: ANSI E
DATE OF SURVEY: 06-JUN-2018
SUBMITTED BY:
CONTRACT NO.:
DRAWING DATE: 09-JUL-2018
FILE NAME: KWW04.dgn

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

DULUTH AREA OFFICE
800 LAKE AVENUE SOUTH
DULUTH, MN 55802

KEWEENAW WATERWAY
MICHIGAN

CONDITION OF CHANNEL
JUNE 2018

SHEET IDENTIFICATION
KWW 04
SHEET 4 OF 24