SURVEY NOTES:

1) HORIZONTAL DATUM:
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT

2) VERTICAL DATUM:
NAVD88 (GEOID18), FOOT

3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.

4) SURVEY INFORMATION:
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)
ECHO SOUNDER: TELEDYNE ECHOTRAC E20
TRANSDUCER: ODOM SMSW200-4 (4° BEAM, 200 kHz)
SOUND VELOCITY SOURCE: VALEPORT SWIFT SVP
INS: SBG ELLIPSE2-E-G4A2-B1
GNSS RECEIVER: TRIMBLE MPS865 WITH DUAL ANTENNAS
GNSS SOURCE: TRIMBLE CENTERPOINT RTX
TIDE METHOD: REAL-TIME KINEMATIC
TIDE SOURCE: TRIMBLE CENTERPOINT RTX

5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.

DECEMBER 20, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 11:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 11:00
183	377.96	377.98	376.38	1.58	1.60
183.3	378.09	378.10	376.38	1.71	1.72
184	378.09	378.10	376.38	1.71	1.72
185.1	378.09	378.10	376.38	1.71	1.72

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
180.0	St. Louis, MO	379.58	9:00	-2.90	11:00	-2.84
183.3	L&D27 Lower transferred to 183.3	349.49	9:00	28.60	11:00	28.61
185.1	Lock and Dam 27 Lower, IL	349.49	9:00	28.60	11:00	28.61

Kerr Island
Madison, IL
ILLINOIS
BARGE
Gabaret Island
Chain of Rocks Canal Lower Entrance Lt. (184.1)
MISSOURI
St Louis M
184
N 1,042,000
N 1,040,000
N 1,038,000
N 1,036,000
E 910,000
E 908,000
N
Scale: 1 Inch = 400.00 Feet
250 500 1000 1500 2000 Feet

St. Louis District

DATES OF SURVEY: DECEMBER 20, 2023
FILE NO.: 184L2023
REQUEST NO.: W912P923F0086

SCALE: 1" = 800' (ANSI B)
FIELD BOOKS:

Approved: FIELD CARTOGRAPHER
Approved: CIVIL ENGINEERING TECHNICIAN
Approved: ASST. CHIEF OF SURVEY
Approved: CHIEF OF SURVEY
Date:

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY:
BOWEN ENGINEERING AND SURVEYING, P.C.
2121 MEGAN DRIVE
CAPE GIRARDEAU, MO 63701

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
POST DREDGE SURVEY
RIVER MILES 184.4 - 183.8

SHEET NO.
1 OF 1