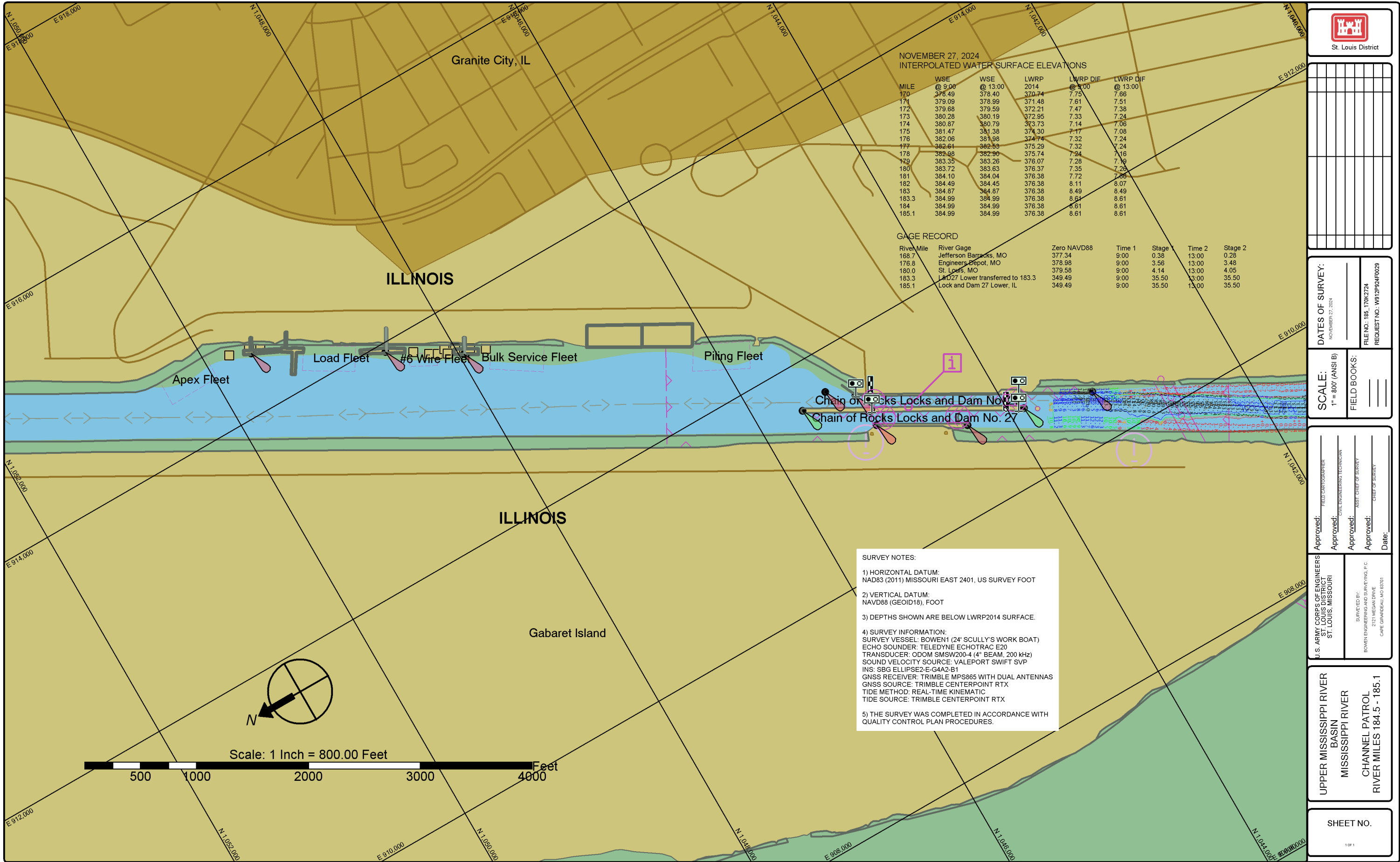




NOVEMBER 27, 2024
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
170	378.49	378.40	370.74	7.75	7.66
171	379.09	378.99	371.48	7.61	7.51
172	379.68	379.59	372.21	7.47	7.38
173	380.28	380.19	372.95	7.33	7.24
174	380.87	380.79	373.73	7.14	7.06
175	381.47	381.38	374.30	7.17	7.08
176	382.06	381.98	374.74	7.32	7.24
177	382.61	382.53	375.29	7.32	7.24
178	382.98	382.90	375.74	7.24	7.16
179	383.35	383.26	376.07	7.28	7.19
180	383.72	383.63	376.37	7.35	7.26
181	384.10	384.04	376.38	7.72	7.65
182	384.49	384.45	376.38	8.11	8.07
183	384.87	384.87	376.38	8.49	8.49
183.3	384.99	384.99	376.38	8.61	8.61
184	384.99	384.99	376.38	8.61	8.61
185.1	384.99	384.99	376.38	8.61	8.61

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage	Time 2	Stage 2
168.7	Jefferson Barracks, MO	377.34	9:00	0.38	13:00	0.28
176.8	Engineers Depot, MO	378.98	9:00	3.56	13:00	3.48
180.0	St. Louis, MO	379.58	9:00	4.14	13:00	4.05
183.3	L&D27 Lower transferred to 183.3	349.49	9:00	35.50	13:00	35.50
185.1	Lock and Dam 27 Lower, IL	349.49	9:00	35.50	13:00	35.50

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.



St. Louis District

DATES OF SURVEY:

NOVEMBER 27, 2024

SCALE:

1" = 800' (ANSI B)

FIELD BOOKS:

FILE NO.: 185_170K2724

REQUEST NO.: W912P924F0029

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 63011

UPPER MISSISSIPPI RIVER
BASIN

MISSISSIPPI RIVER

CHANNEL PATROL
RIVER MILES 184.5 - 185.1

SHEET NO.

1 OF 1

