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: ODOM DIGIBAR S VELOCIMETER
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.

AUGUST 29, 2022
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 16:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 16:00
185.3	397.97	398.24	395.64	2.33	2.60
194.4	397.97	398.24	395.81	2.16	2.43

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
185.3	Lock and Dam 27 Upper, IL	349.49	10:00	48.48	16:00	48.75
194.4	L&D27 Upper transferred to 194.4	349.49	10:00	48.48	16:00	48.75
200.5	Mel Price L&D Lower	395.04	10:00	3.70	16:00	3.76

ILLINOIS

ILLINOIS

Fl(2)R 5s

Fl(2)R

Madison Ldg

Chouteau Island

194

N

Scale: 1 Inch = 400.00 Feet

250 500 1000 1500 2000 Feet

N 1,078,000
E 930,000
N 1,076,000
N 1,074,000
E 928,000
N 1,080,000
E 926,000

St. Louis District

DATES OF SURVEY: AUGUST 29, 2022

FILE NO.: 194H2922
REQUEST NO.: W912P922F0051

SCALE: 1" = 400' (ANSI B)

FIELD BOOKS:

Approved: FIELD/PHOTOGRAPHER
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
PRE DREDGE SURVEY
RIVER MILES 194.2 - 193.5

SHEET NO.
1 OF 1