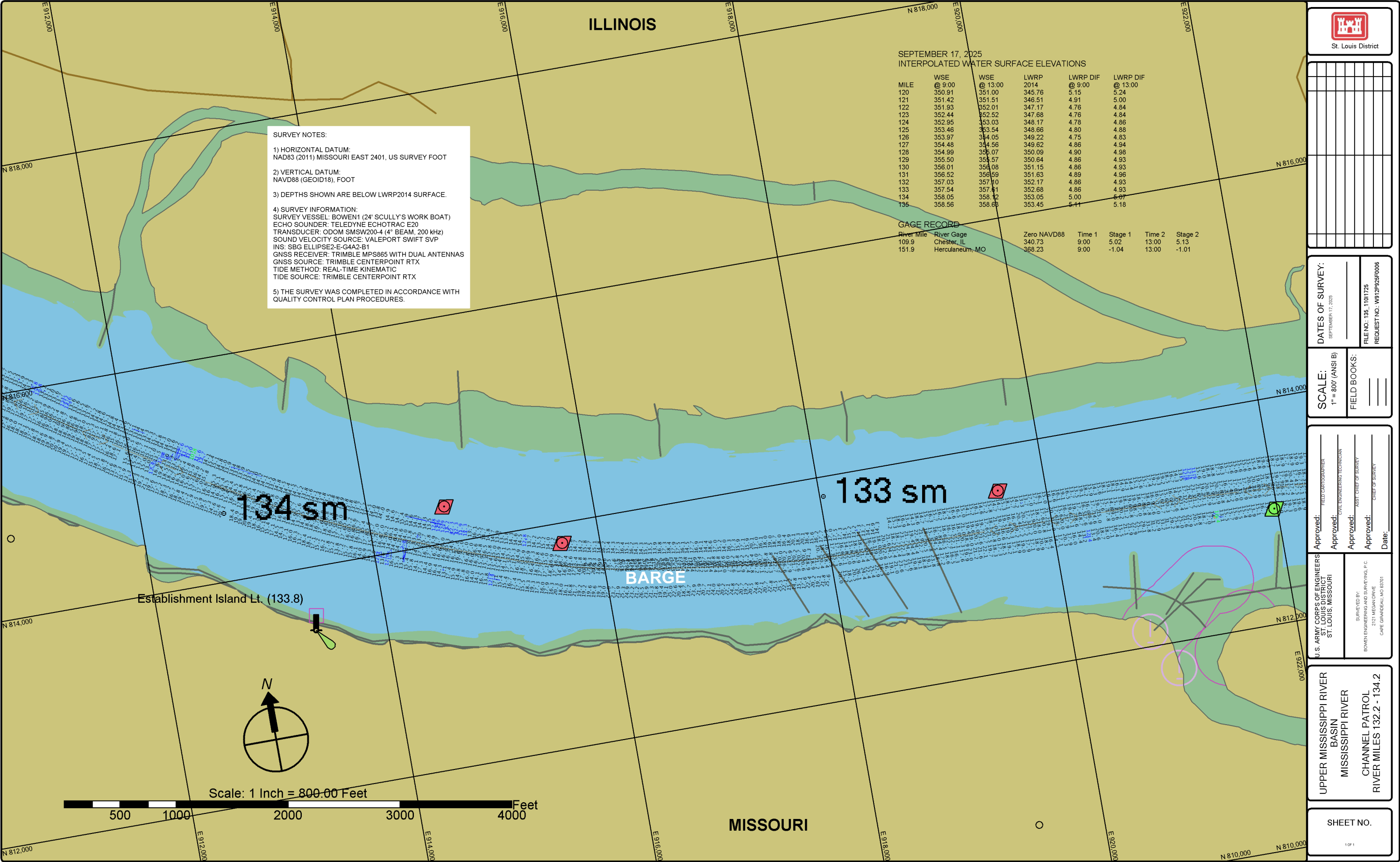
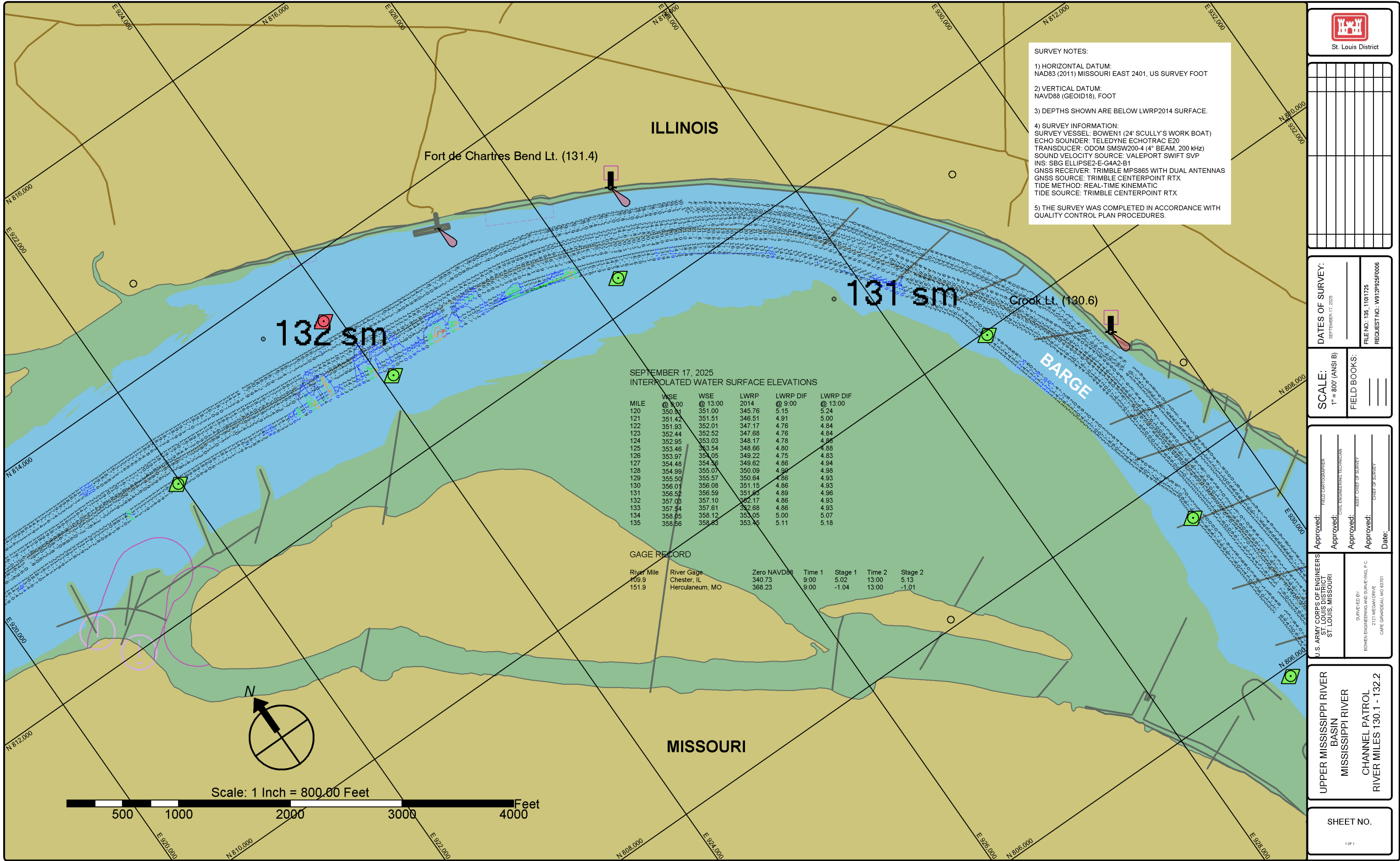
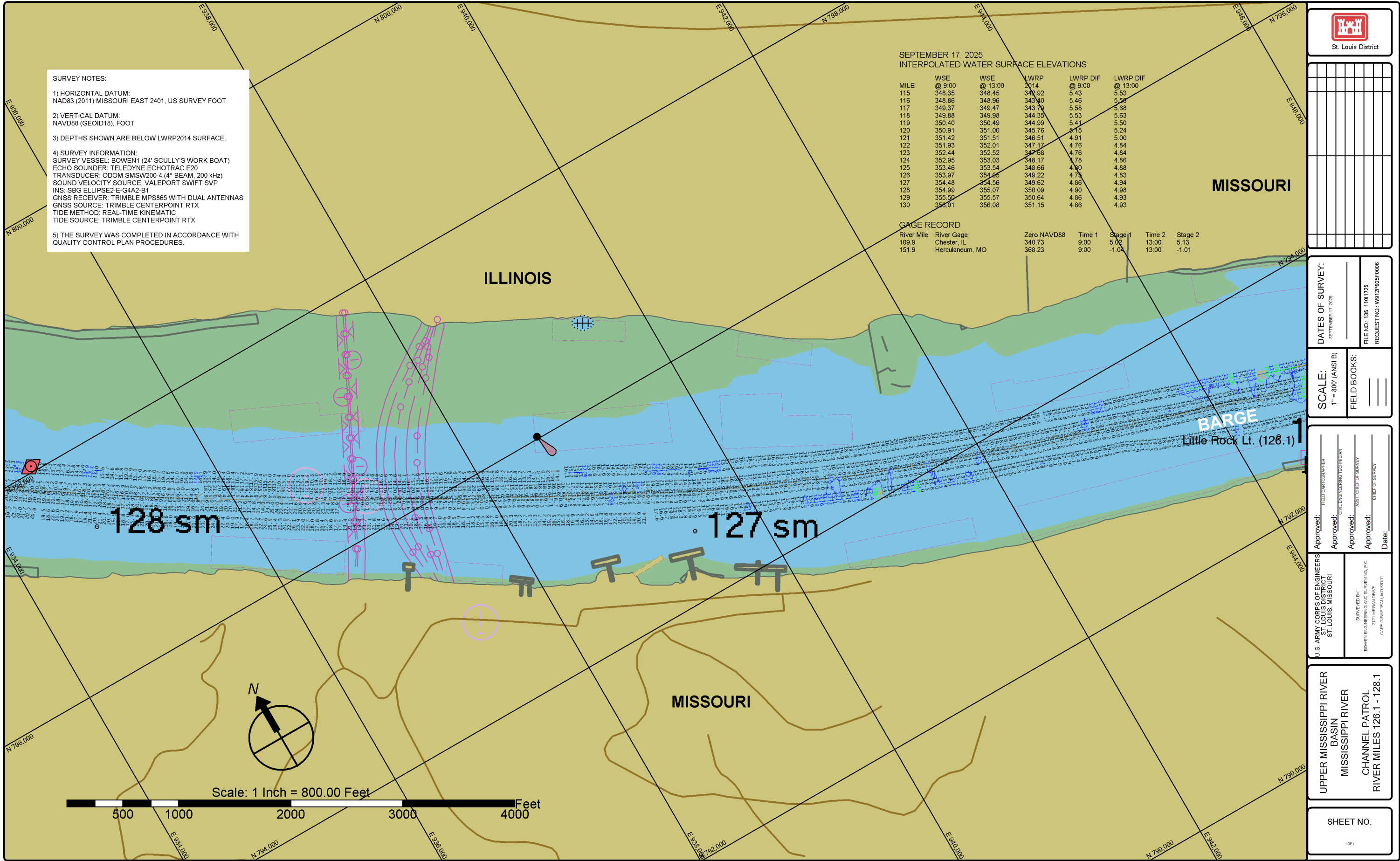
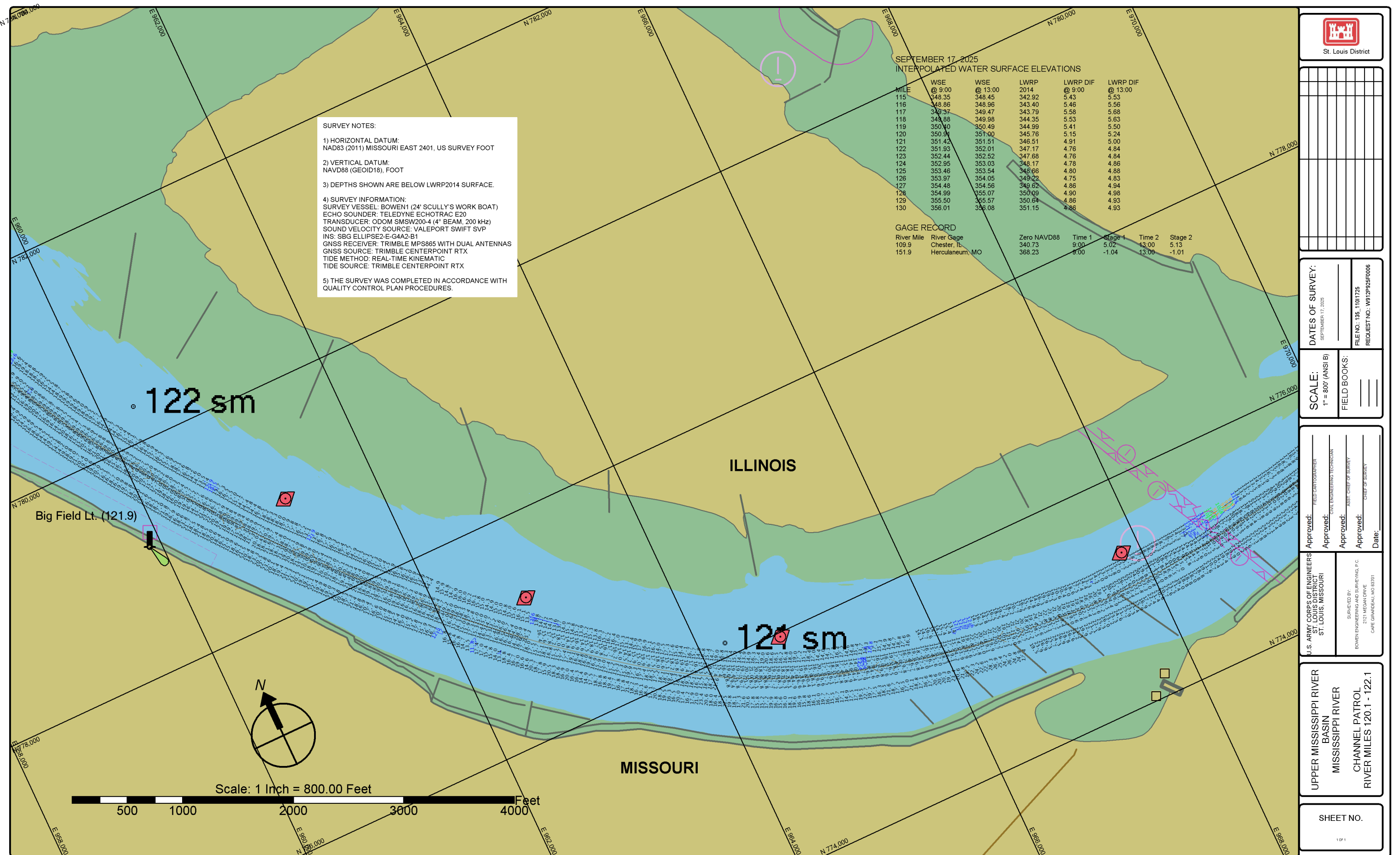








[illegible]

DATES OF SURVEY:
SEPTEMBER 17, 2025

REQUEST NO.: W912P925F0006

SCALE:
1" = 800' (ANSI B)

1100

Approved: _____ FIELD CARTOGRAPHER

Approved: _____ JOSH KROENKE/ENGINEERING

Approved: _____

Approved: _____
CIVIL ENGINEERING TECHNICIAN

Approved: _____
ASST. CHIEF OF SURVEY

Date: _____

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

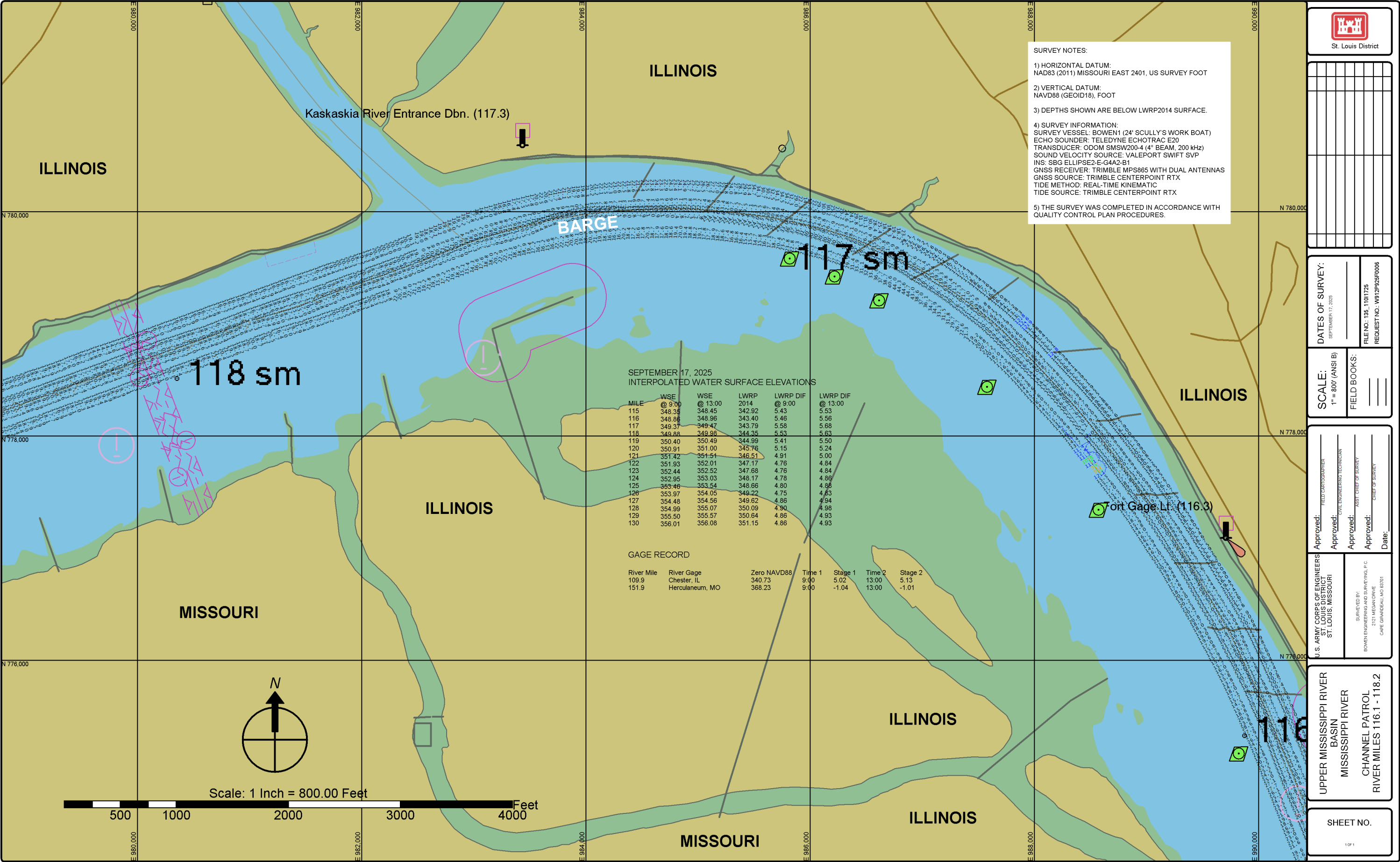
SURVEYED BY:
BOWEN ENGINEERING AND SURVEYING, P.C.
2121 MEGAN DRIVE
CAPE GIRARDEAU, MO 63701

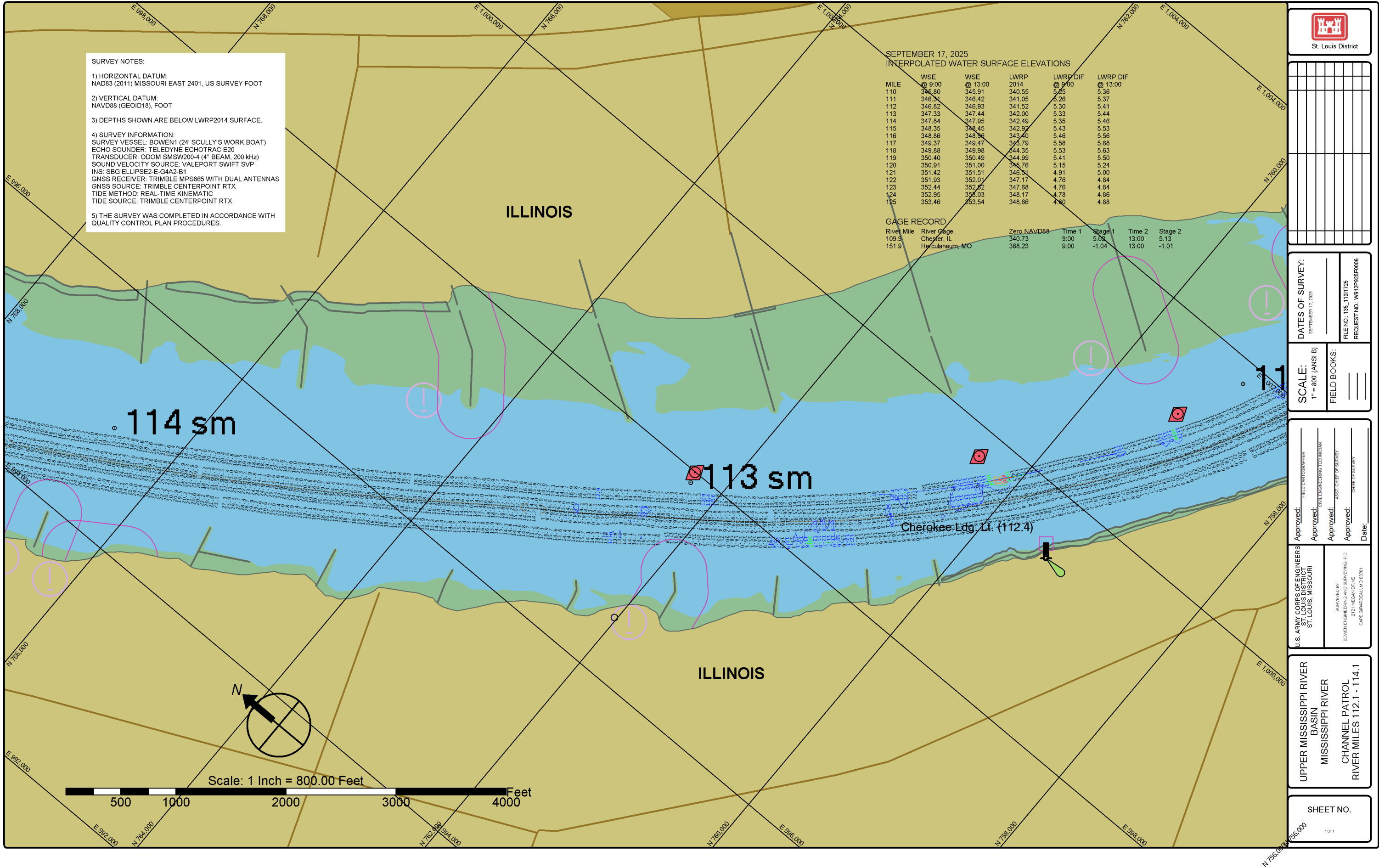
UPPER MISSISSIPPI RIVER
BASINMISSISSIPPI RIVER
CHANNEL PATROL

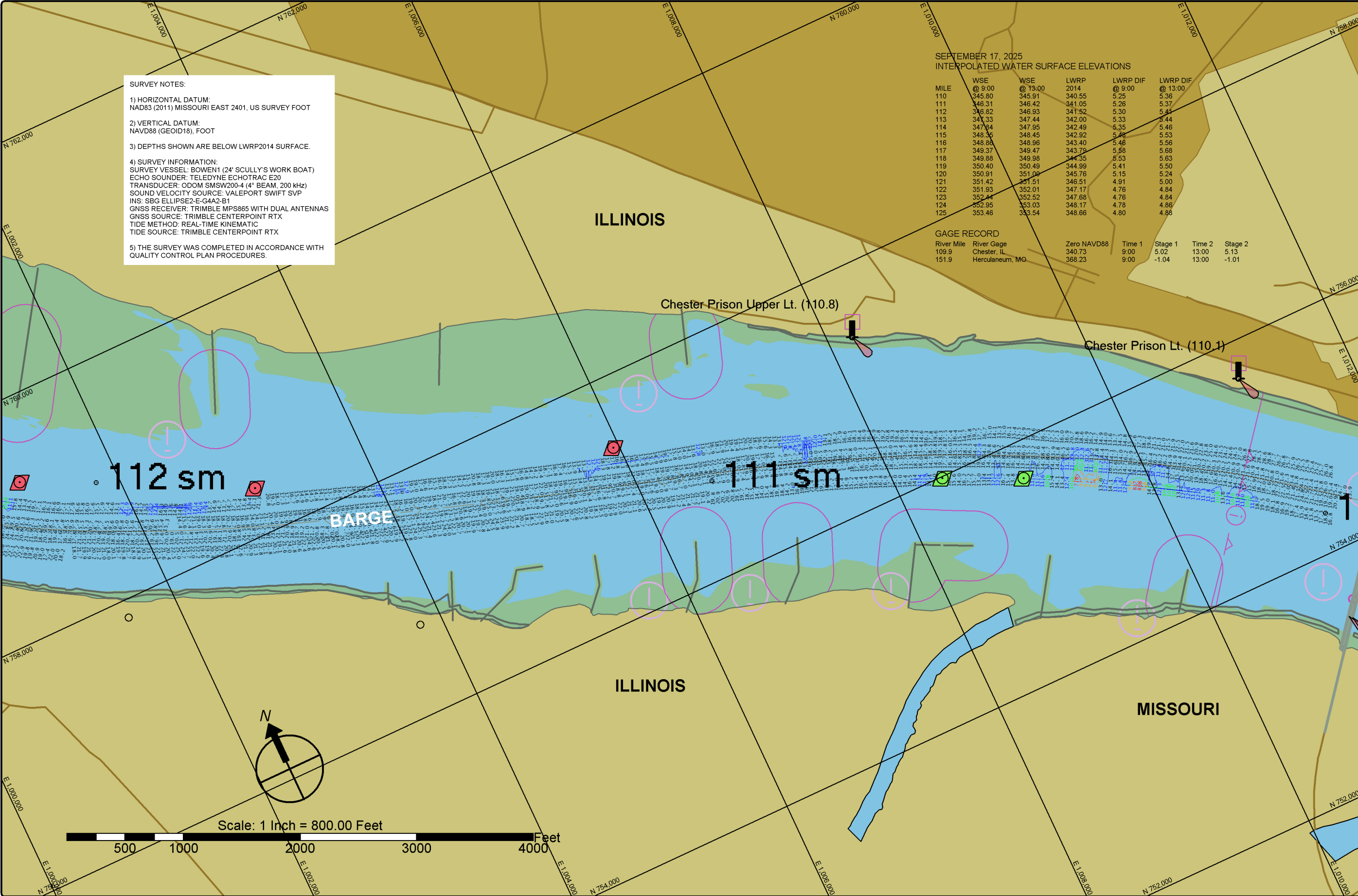
RIVER MILES 120.1 - 122.1

SHEET NO.

1 OF 1







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.

SEPTEMBER 17, 2025
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
110	345.80	345.91	340.55	5.25	5.36
111	346.31	346.42	341.05	5.26	5.37
112	346.82	346.93	341.52	5.30	5.41
113	347.33	347.44	342.00	5.33	5.44
114	347.84	347.95	342.49	5.35	5.46
115	348.35	348.45	342.92	5.43	5.53
116	348.86	348.96	343.40	5.46	5.56
117	349.37	349.47	343.79	5.58	5.68
118	349.88	349.98	344.35	5.53	5.63
119	350.40	350.49	344.99	5.41	5.50
120	350.91	351.00	345.76	5.15	5.24
121	351.42	351.51	346.51	4.91	5.00
122	351.93	352.01	347.17	4.76	4.84
123	352.44	352.52	347.68	4.76	4.84
124	352.95	353.03	348.17	4.78	4.86
125	353.46	353.54	348.66	4.80	4.88

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	5.02	13:00	5.13
151.9	Herculanum, MO	368.23	9:00	-1.04	13:00	-1.01



St. Louis District

DATES OF SURVEY:
SEPTEMBER 17, 2025

FILE NO.: 195.1101725
REQUEST NO.: W91P9505006

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 63501

UPPER MISSISSIPPI RIVER
BASIN
MISSISSIPPI RIVER

CHANNEL PATROL
RIVER MILES 110.1 - 112.1

SHEET NO.

1 OF 1

