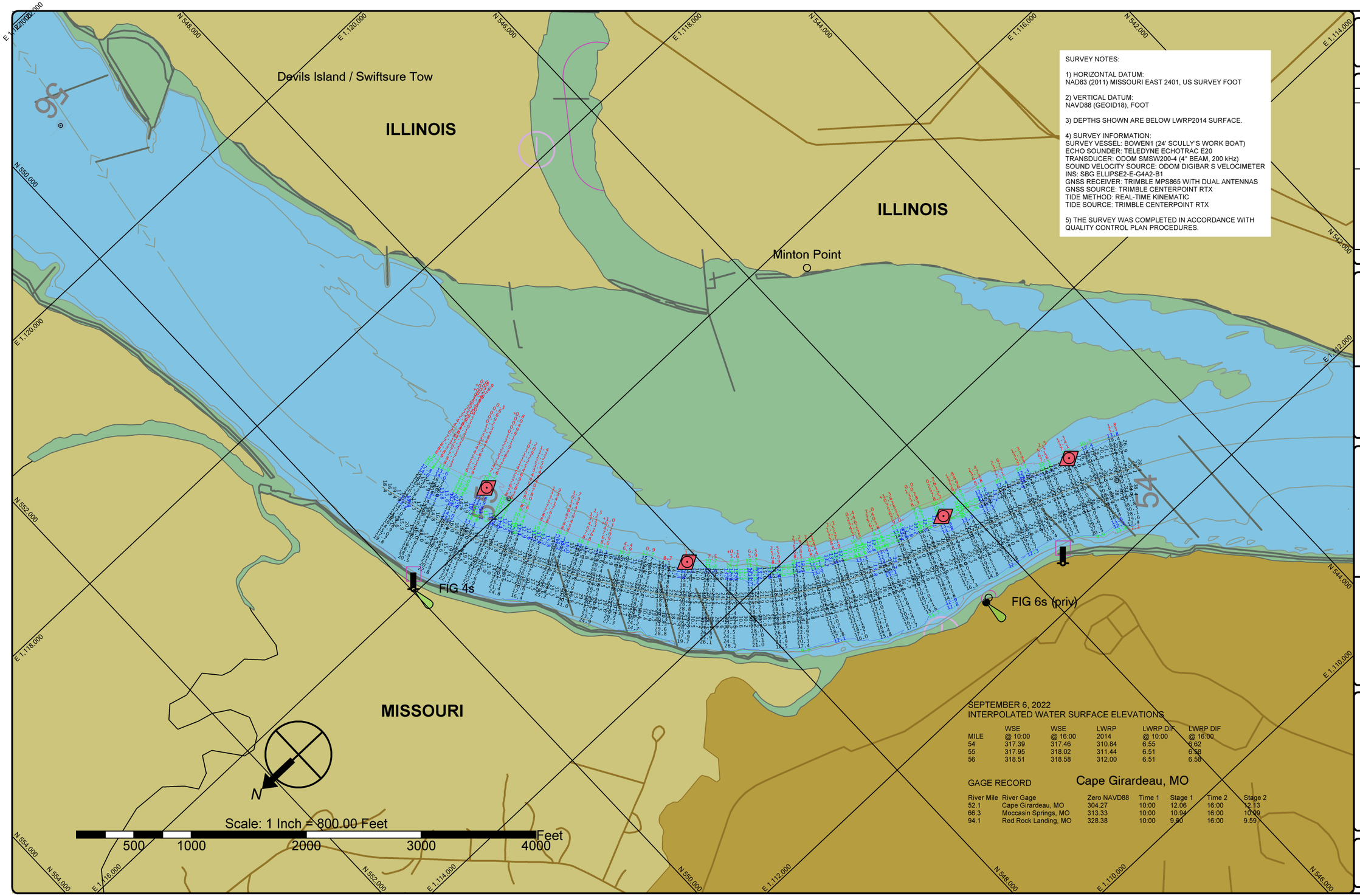

SURVEY NOTES:

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.

SEPTEMBER 6, 2022
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 16:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 16:00
54	317.39	317.46	310.84	6.55	6.62
55	317.95	318.02	311.44	6.51	6.58
56	318.51	318.58	312.00	6.51	6.58

GAGE RECORD — Cape Girardeau, MO

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
52.1	Cape Girardeau, MO	304.27	10:00	12.06	16:00	12.13
66.3	Moccasin Springs, MO	313.33	10:00	10.94	16:00	10.99
94.1	Red Rock Landing, MO	328.38	10:00	9.60	16:00	9.59

St. Louis District

DATES OF SURVEY:
SEPTEMBER 6, 2022

FILE NO.: 05510622
REQUEST NO.: W912P922F0051

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:

Approved: _____ FIELD HYDROGRAPHER
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 55.1 - 54.0

SHEET NO.
1 OF 1