SURVEY NOTES:

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

2) VERTICAL DATUM:
NAVD88, FOOT

3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.

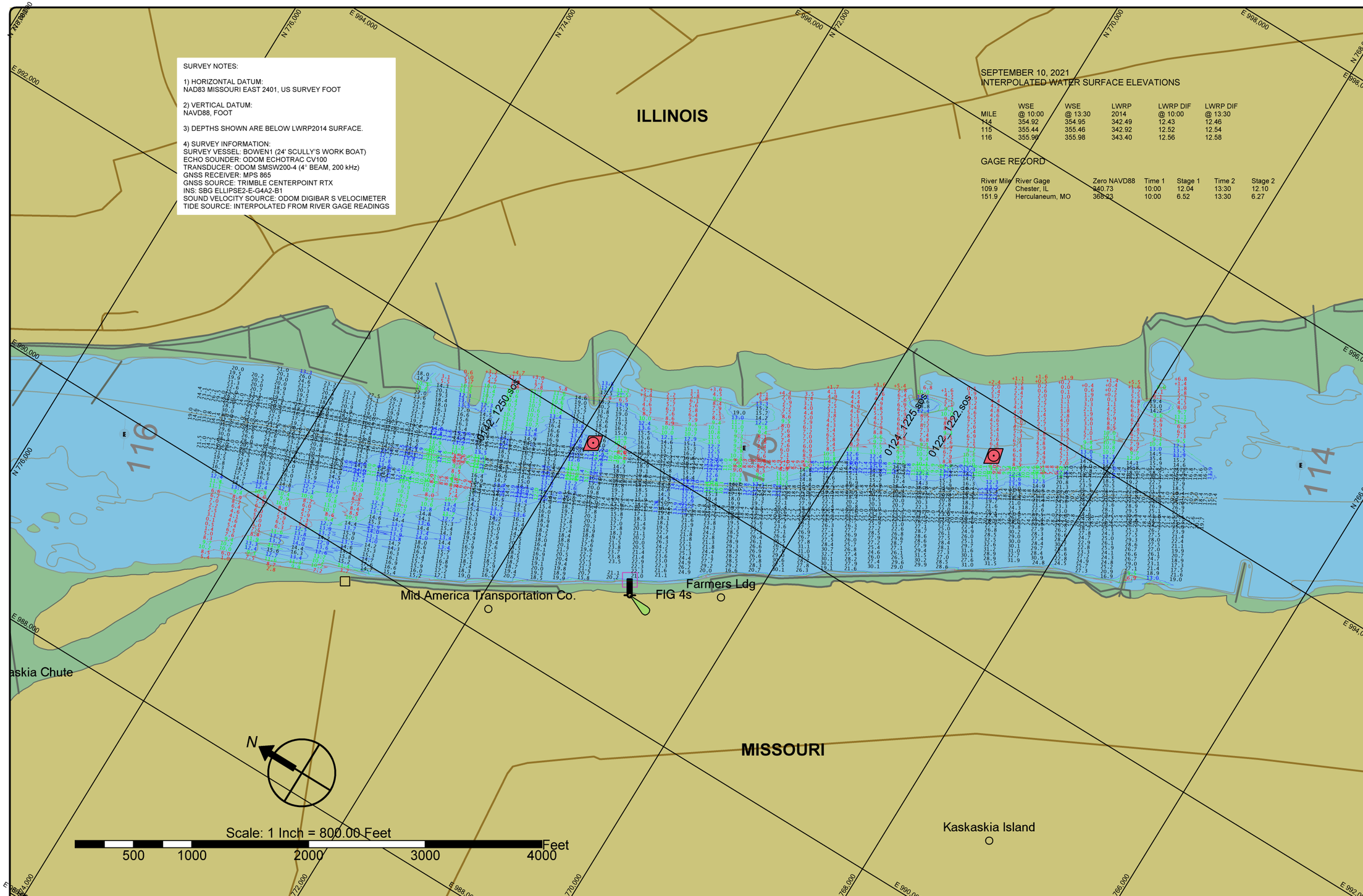
4) SURVEY INFORMATION:
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)
ECHO SOUNDER: ODOM ECHOTRAC CV100
TRANSDUCER: ODOM SMSW200-4 (4° BEAM, 200 kHz)
GNSS RECEIVER: MPS 865
GNSS SOURCE: TRIMBLE CENTERPOINT RTX
INS: SBG ELLIPSE2-E-G4A2-B1
SOUND VELOCITY SOURCE: ODOM DIGIBAR S VELOCIMETER
TIDE SOURCE: INTERPOLATED FROM RIVER GAGE READINGS

SEPTEMBER 10, 2021
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 13:30	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 13:30
114	354.92	354.95	342.49	12.43	12.46
115	355.44	355.46	342.92	12.52	12.54
116	355.96	355.98	343.40	12.56	12.58

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	10:00	12.04	13:30	12.10
151.9	Herculaneum, MO	368.23	10:00	6.52	13:30	6.27



St. Louis District

DATES OF SURVEY:
SEPTEMBER 10, 2021

FILE NO.: 115/1021
REQUEST NO.: W912P921P0114

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

PRE DREDGE SURVEY
RIVER MILES 115.8 - 114.3

SHEET NO.
1 OF 1