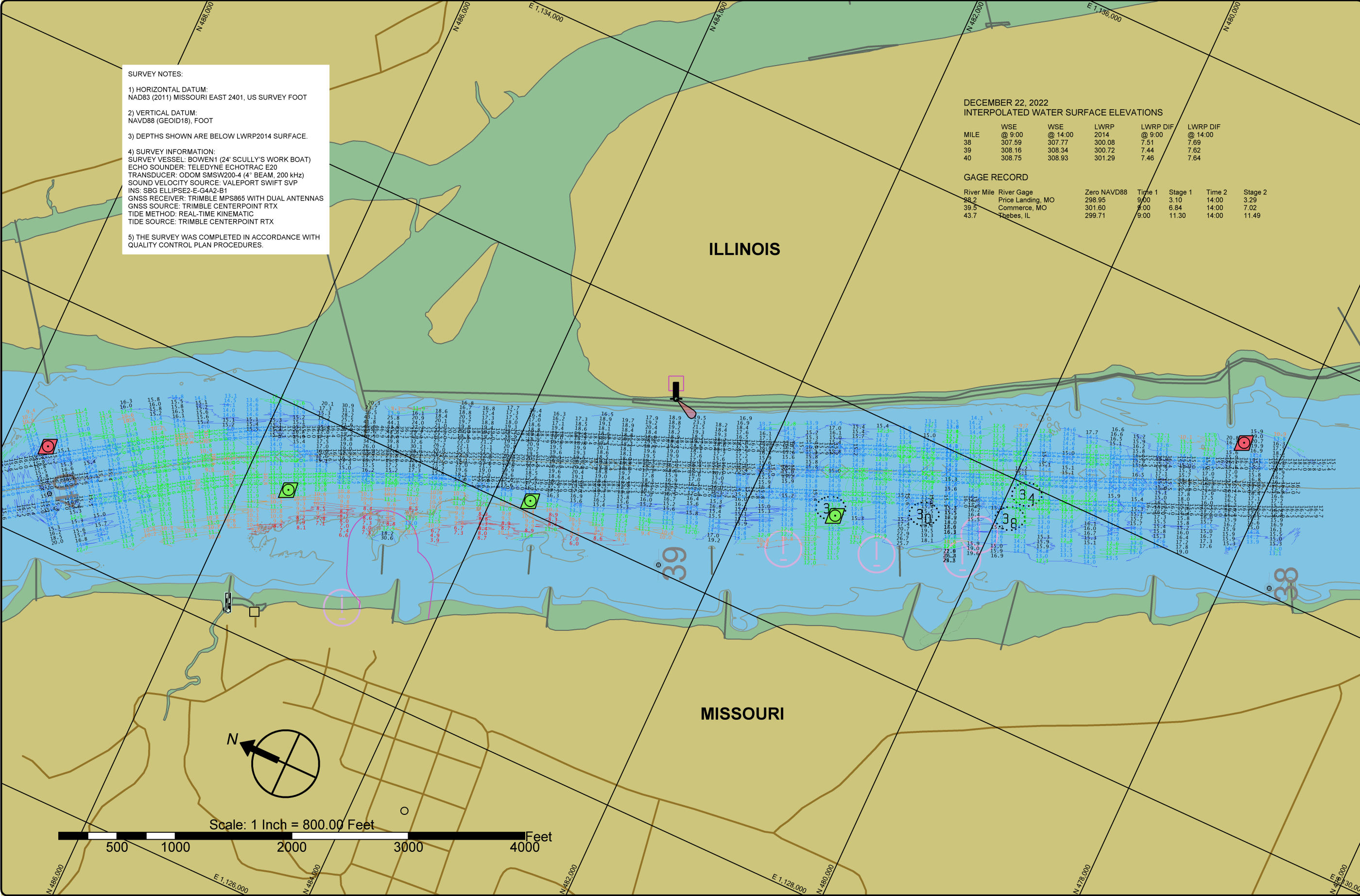




SURVEY NOTES:

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.

DECEMBER 22, 2022 INTERPOLATED WATER SURFACE ELEVATIONS						
MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00	
38	307.59	307.77	300.08	7.51	7.69	
39	308.16	308.34	300.72	7.44	7.62	
40	308.75	308.93	301.29	7.46	7.64	

GAGE RECORD						
River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
38.2	Price Landing, MO	298.95	9:00	3.10	14:00	3.29
39.5	Commerce, MO	301.60	9:00	6.84	14:00	7.02
43.7	Thebes, IL	299.71	9:00	11.30	14:00	11.49



St. Louis District

DATES OF SURVEY:
DECEMBER 21, 2022

FILE NO: 040L2122
REQUEST NO: W912P22F004

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:

Approved:

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

Approved:

FIELD CARTOGRAPHER

Approved:

CIVIL ENGINEERING TECHNICIAN

Approved:

ASST. CHIEF OF SURVEY

Approved:

CHIEF OF SURVEY

Date:

UPPER MISSISSIPPI RIVER
BASIN

MISSISSIPPI RIVER

PRE DREDGE SURVEY
RIVER MILES 40.0 - 38.0

SHEET NO.

1 OF 1