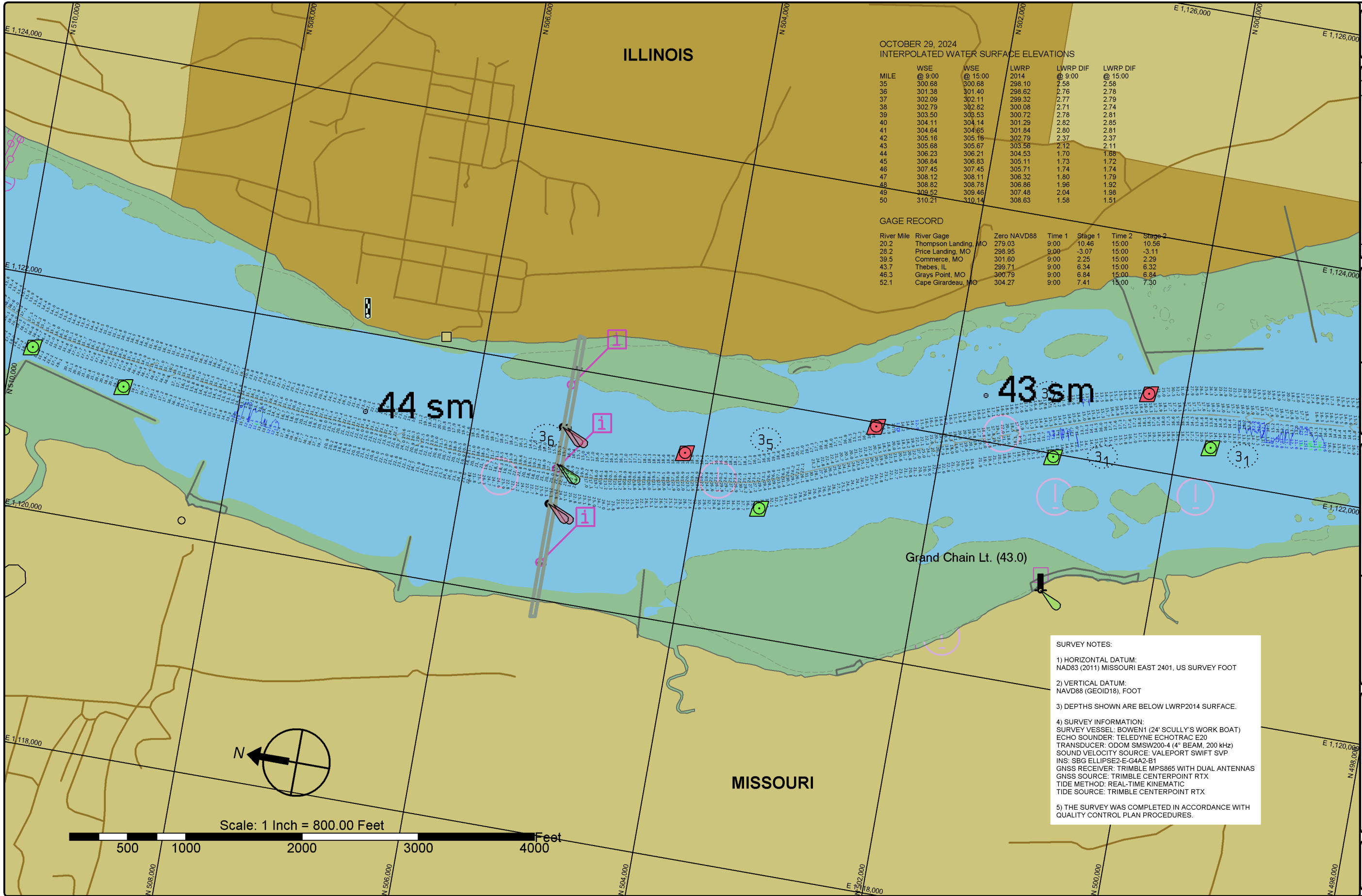




OCTOBER 29, 2024
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 15:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 15:00
35	300.68	300.68	298.10	2.58	2.58
36	301.38	301.40	298.62	2.76	2.78
37	302.09	302.11	299.32	2.77	2.79
38	302.79	302.82	300.08	2.71	2.74
39	303.50	303.53	300.72	2.78	2.81
40	304.11	304.14	301.29	2.82	2.85
41	304.64	304.65	301.84	2.80	2.81
42	305.16	305.16	302.79	2.37	2.37
43	305.68	305.67	303.56	2.12	2.11
44	306.23	306.21	304.53	1.70	1.68
45	306.84	306.83	305.11	1.73	1.72
46	307.45	307.45	305.71	1.74	1.74
47	308.12	308.11	306.32	1.80	1.79
48	308.82	308.78	306.86	1.96	1.92
49	309.52	309.46	307.48	2.04	1.98
50	310.21	310.14	308.63	1.58	1.51

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
20.2	Thompson Landing, MO	279.03	9:00	10.46	15:00	10.56
28.2	Price Landing, MO	298.95	9:00	-3.07	15:00	-3.11
39.5	Commerce, MO	301.60	9:00	2.25	15:00	2.29
43.7	Thebes, IL	299.71	9:00	6.34	15:00	6.32
46.3	Grays Point, MO	300.79	9:00	6.84	15:00	6.84
52.1	Cape Girardeau, MO	304.27	9:00	7.41	15:00	7.30

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.



St. Louis District

DATES OF SURVEY:
OCTOBER 29, 2024

FILE NO.: 050_025/2924
REQUEST NO.: W919P24F0029

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

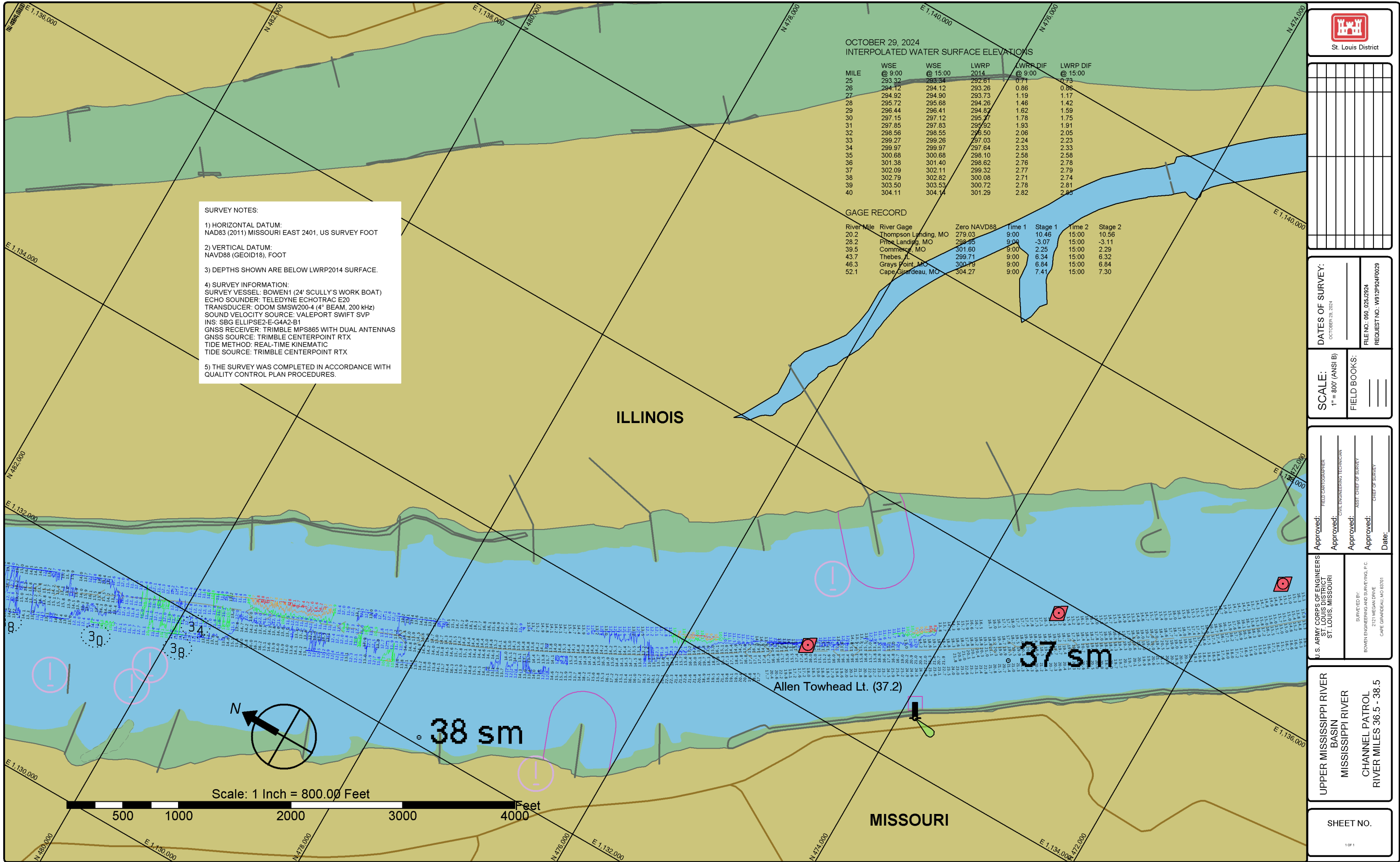
UPPER MISSISSIPPI RIVER
BASIN

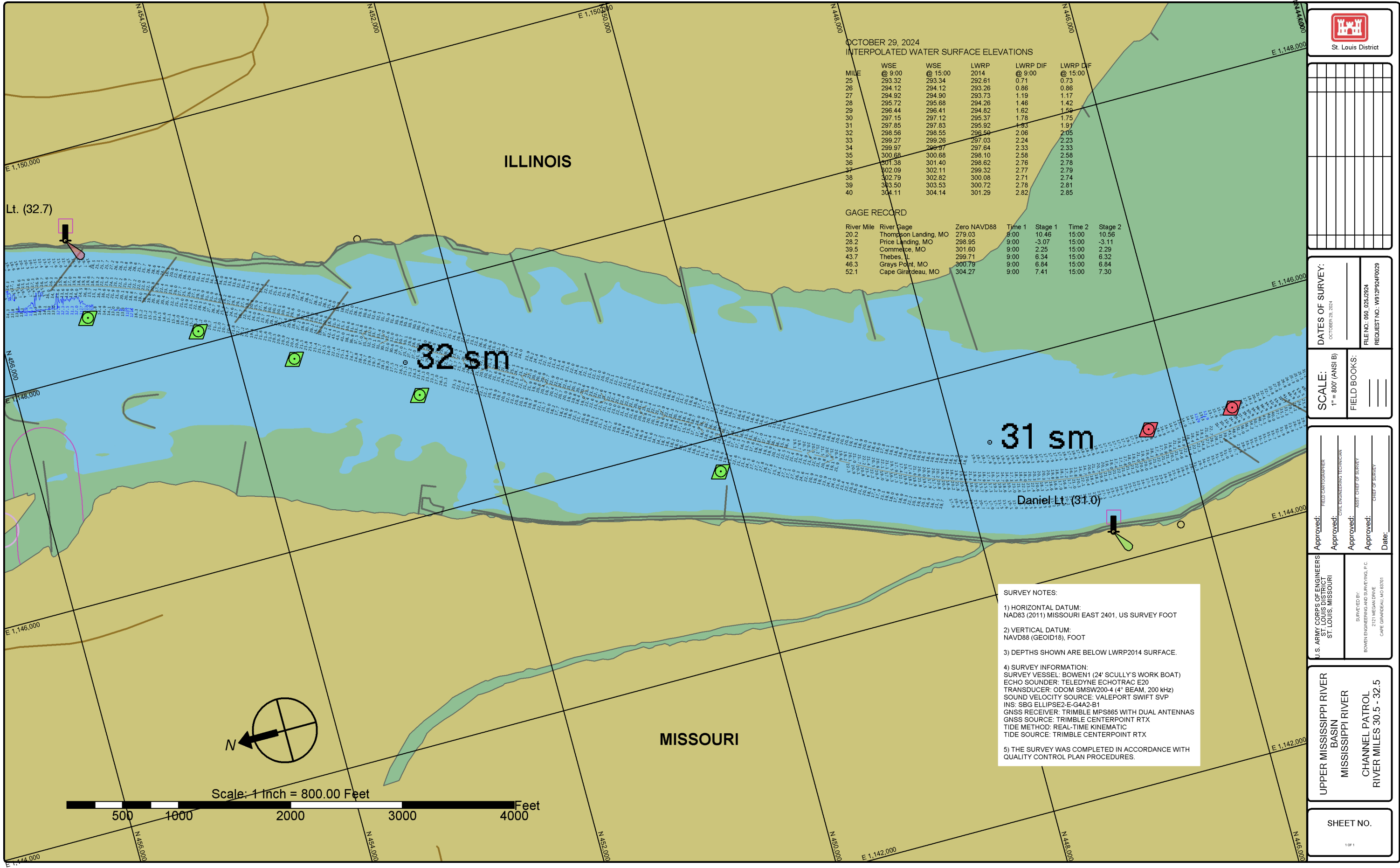
MISSISSIPPI RIVER

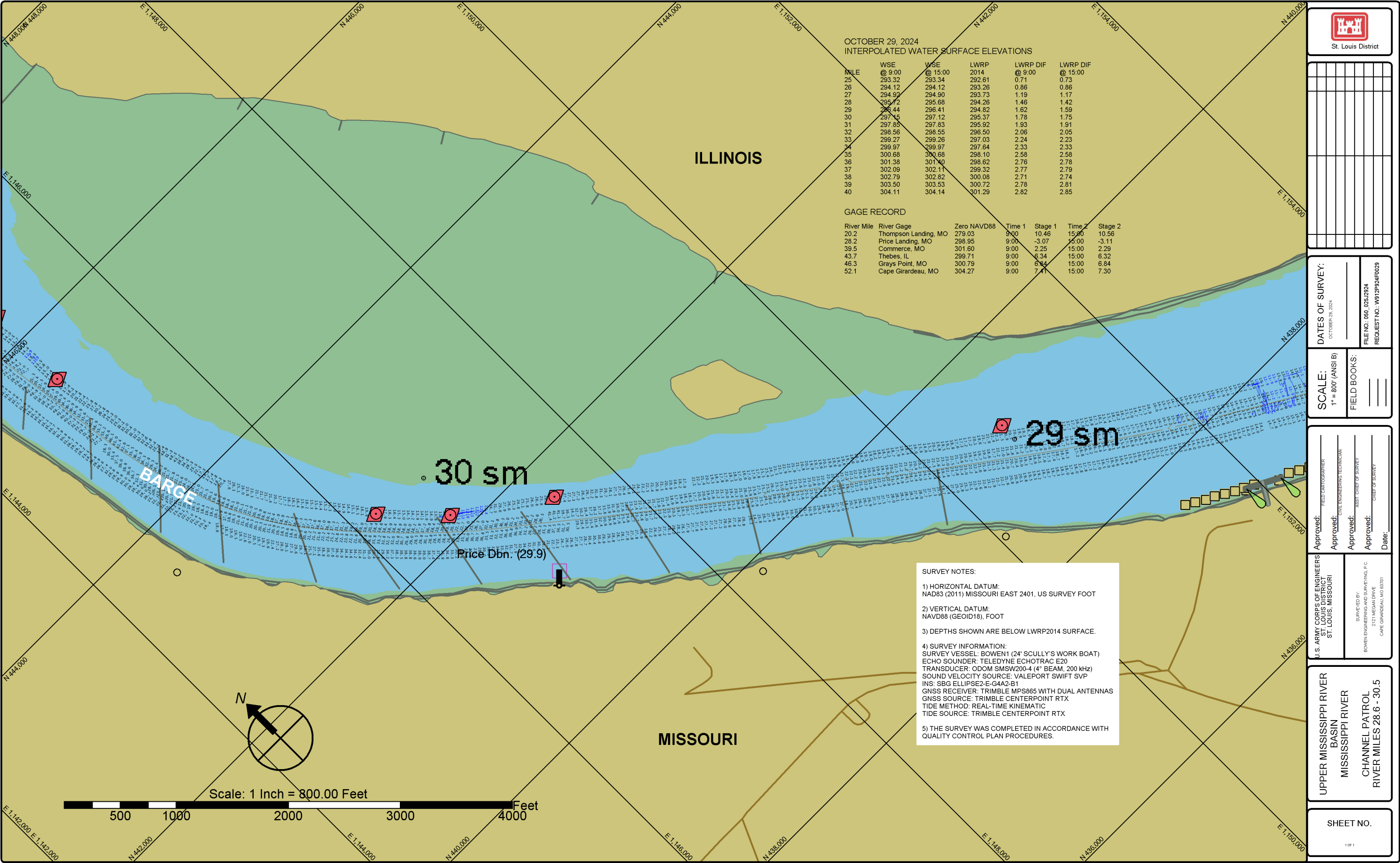
CHANNEL PATROL
RIVER MILES 42.5 - 44.4

SHEET NO.

1 OF 1







OCTOBER 29, 2024
INTERPOLATED WATER SURFACE ELEVATIONS

RMILE	WSE @ 9:00	WSE @ 15:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 15:00
25	293.32	293.34	292.61	0.71	0.73
26	294.12	294.12	293.26	0.86	0.86
27	294.92	294.90	293.73	1.19	1.17
28	295.72	295.68	294.26	1.46	1.42
29	296.44	296.41	294.82	1.62	1.59
30	297.15	297.12	295.37	1.78	1.75
31	297.85	297.83	295.92	1.93	1.91
32	298.56	298.55	296.50	2.06	2.05
33	299.27	299.26	297.03	2.24	2.23
34	299.97	299.97	297.64	2.33	2.33
35	300.68	300.68	298.10	2.58	2.58
36	301.38	301.40	298.62	2.76	2.78
37	302.09	302.11	299.32	2.77	2.79
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St. Louis District

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OCTOBER 29, 2024

SCALE:

1" = 800' (ANSI B)

FIELD BOOKS:

Approved:

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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

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

UPPER MISSISSIPPI RIVER
BASIN

MISSISSIPPI RIVER

CHANNEL PATROL

RIVER MILES 28.6 - 30.5

SHEET NO.

1 OF 1

