



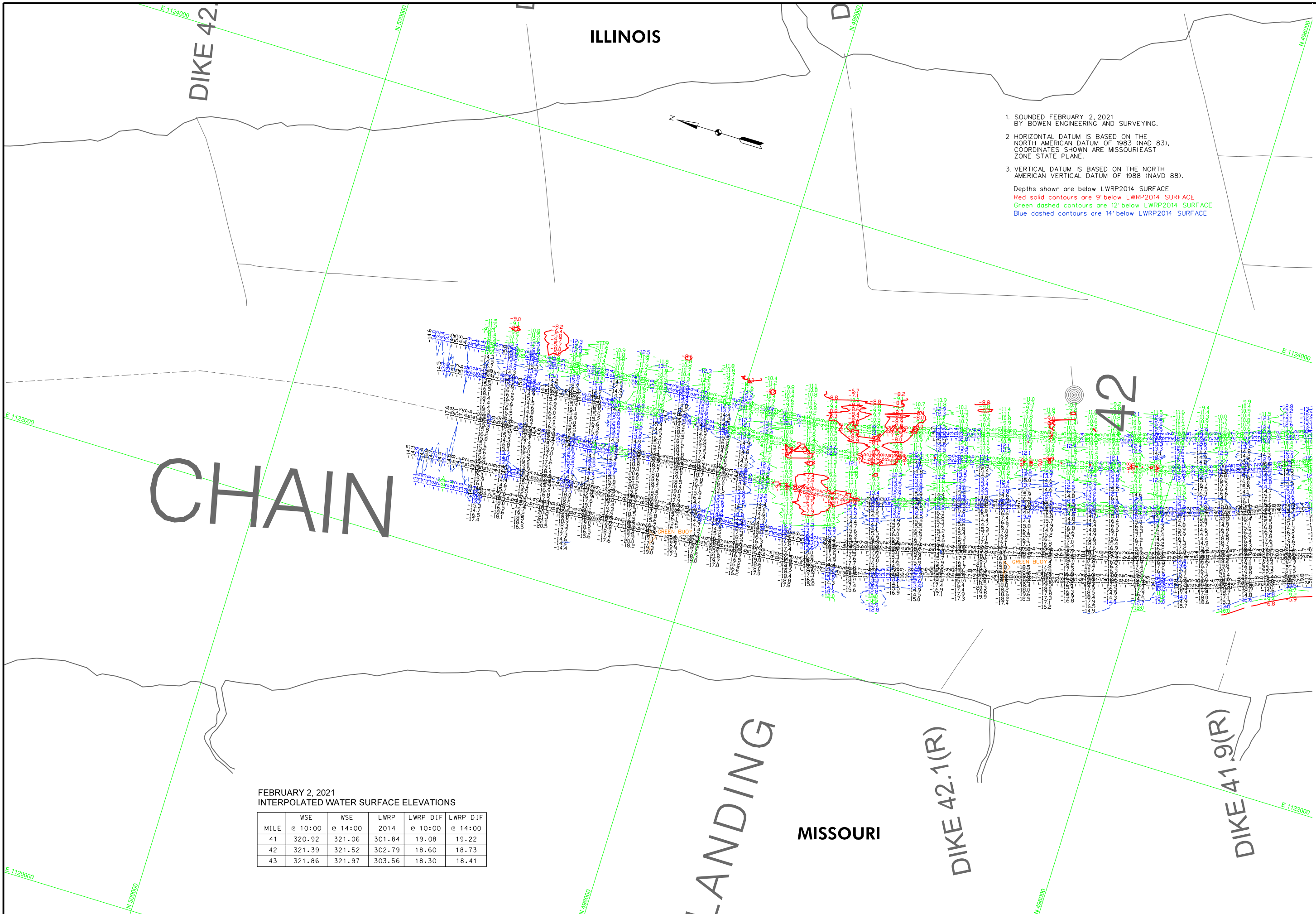
US Army Corps of Engineers  
St. Louis District

ZERO N.A.V.D. MILE	CAPE GRANDEAL NO	GRAY'S POINT NO	THEBES L	COMMERCE NO
LWRP 2014	30942	521	299.71	10160
02 FEB 2021	X	X	43.7	39.5
			304.61	3012
			22.481000 22.581400 18.610000 18.701400	

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Survey Date: FEBRUARY 2, 2021	Reviewed by:
UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER	Drawn by: BOWEN ENGINEERING	Reviewed by: X
	Submitted by: X	APPROVED: X
	Plot date: 02/02/2021	File name: 1808010101.dwg

PRE DREDGE SURVEY	RIVER MILES 42.5 - 41.4

PLATE NUMBER  
XX  
SHEET 1 OF 2

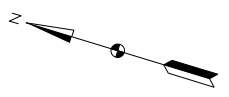


- SOUNDED FEBRUARY 2, 2021 BY BOWEN ENGINEERING AND SURVEYING.
  - HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
  - VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- Depths shown are below LWRP2014 SURFACE  
 Red solid contours are 9' below LWRP2014 SURFACE  
 Green dashed contours are 12' below LWRP2014 SURFACE  
 Blue dashed contours are 14' below LWRP2014 SURFACE

FEBRUARY 2, 2021  
INTERPOLATED WATER SURFACE ELEVATIONS

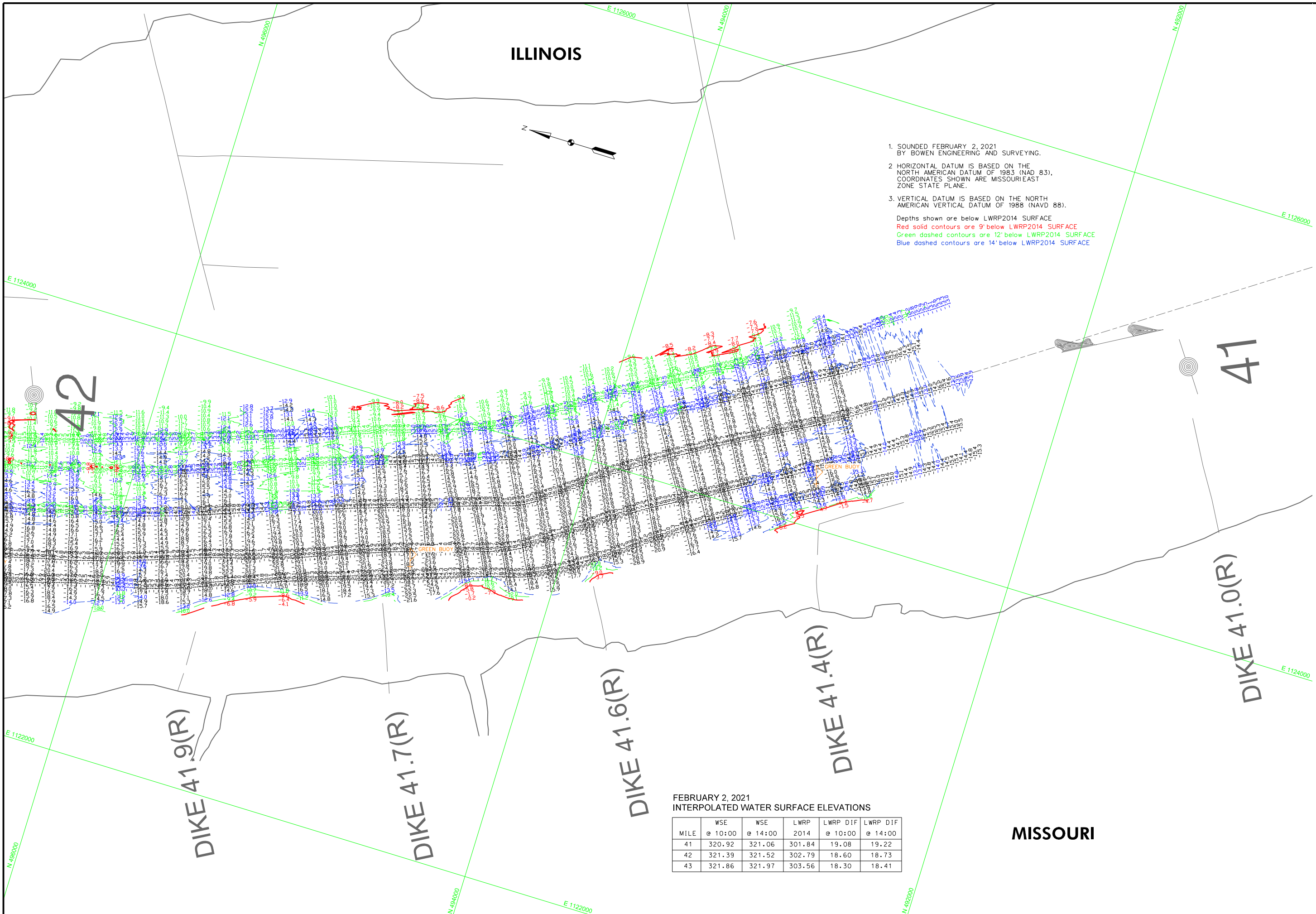
MILE	WSE		LWRP 2014	LWRP DIF	
	@ 10:00	@ 14:00		@ 10:00	@ 14:00
41	320.92	321.06	301.84	19.08	19.22
42	321.39	321.52	302.79	18.60	18.73
43	321.86	321.97	303.56	18.30	18.41

ILLINOIS



1. SOUNDED FEBRUARY 2, 2021  
BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE  
NORTH AMERICAN DATUM OF 1983 (NAD 83).  
COORDINATES SHOWN ARE MISSOURI EAST  
ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NORTH  
AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

Depths shown are below LWRP2014 SURFACE  
 Red solid contours are 9' below LWRP2014 SURFACE  
 Green dashed contours are 12' below LWRP2014 SURFACE  
 Blue dashed contours are 14' below LWRP2014 SURFACE



FEBRUARY 2, 2021  
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 14:00
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43	321.86	321.97	303.56	18.30	18.41

MISSOURI

CAPE RECORD		COMMERCE NO	
CAPE GRADEAL NO	GRAY'S POINT NO	THEBES, L	
304.27	300.79	299.71	0160
52.1	46.3	43.7	39.5
309.62	305.81	304.61	3012
X	X	22-481000 22-581000 18.610000 18.701000	
X	X		

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI		Survey Date: FEBRUARY 2, 2021	
Drawn by: X	Checked by: X	Reviewed by: X	
Submitted: X	Approved: X		
UPPER MISSISSIPPI RIVER BASIN		MISSISSIPPI RIVER	
Plot date: 02/02/2021			

120 METERS  
60 METERS  
400 FEET  
200 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYING AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE U.S. ARMY ENGINEER DIVISION.

PRE DREDGE SURVEY  
RIVER MILES 42.5 - 41.4