

June 8, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

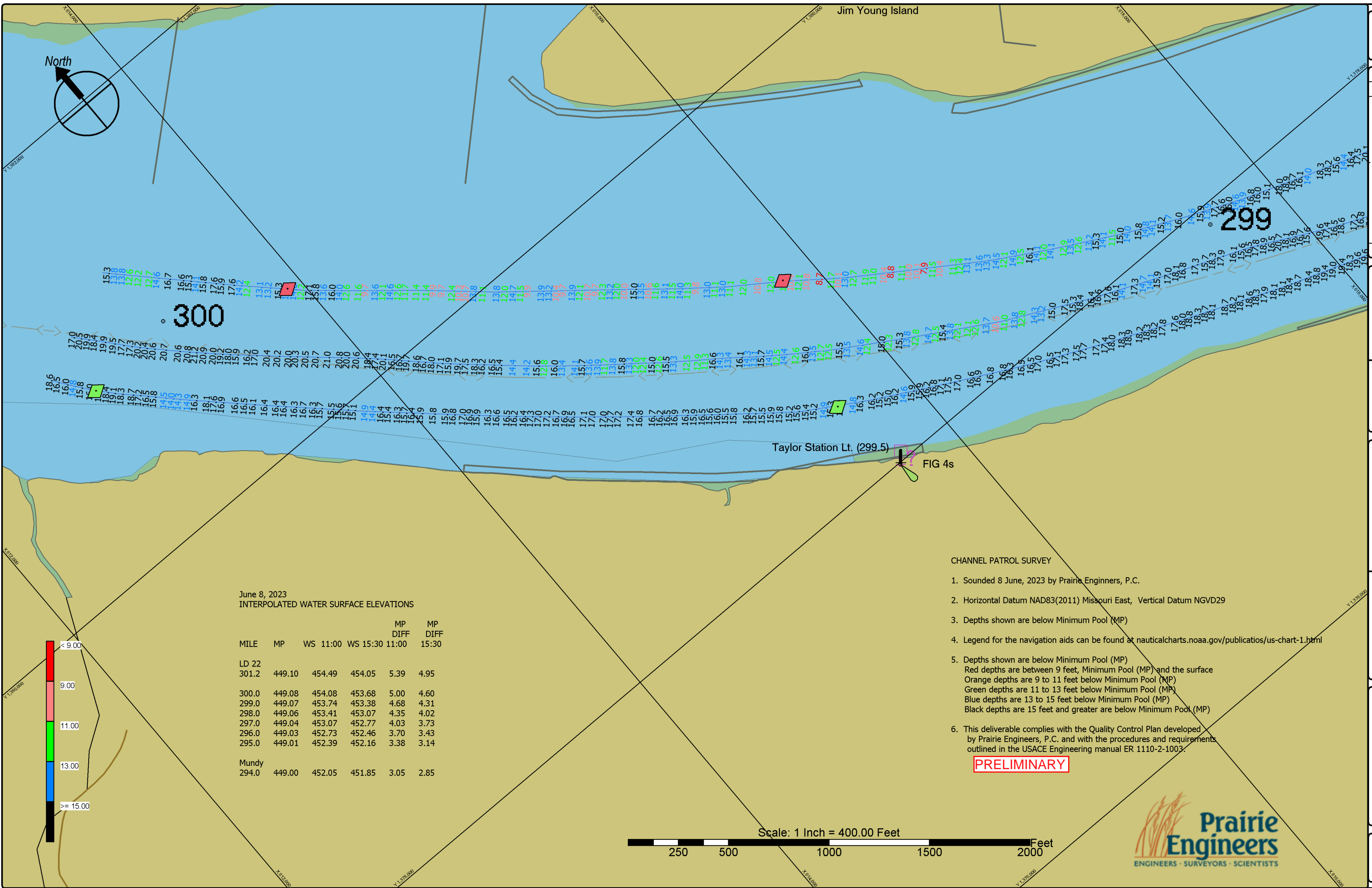
MILE	MP	WS 11:00	WS 15:30	MP DIFF 11:00	MP DIFF 15:30
LD 22					
301.2	449.10	454.49	454.05	5.39	4.95
300.0	449.08	454.08	453.68	5.00	4.60
299.0	449.07	453.74	453.38	4.68	4.31
298.0	449.06	453.41	453.07	4.35	4.02
297.0	449.04	453.07	452.77	4.03	3.73
296.0	449.03	452.73	452.46	3.70	3.43
295.0	449.01	452.39	452.16	3.38	3.14
Mundy					
294.0	449.00	452.05	451.85	3.05	2.85

Scale: 1 Inch = 400.00 Feet

PRELIMINARY

CHANNEL PATROL SURVEY

- Sounded 8 June, 2023 by Prairie Engineers, P.C.
- Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
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- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



Gage Records 8 June, 2023

LD 22	11:00 = 8.39	15:30 = 7.95
Mundy	11:00 = 10.2	15:30 = 10.0
Louisiana	11:00 = 11.90	15:30 = 11.82
LD 24	11:00-26.09	15:30 = 26.36

DATES OF SURVEY: 8 June, 2023

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

FILE NO.: REQUEST NO.:

Approved: **Abednego Nkem**
REGISTERED PROFESSIONAL ENGINEER

Approved: **Jarrett Lancer**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Darren Foray**
CHIEF OF SURVEY

Date: 15 June, 2023

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

SURVEYED BY
 PRAIRIE ENGINEERS, P.C.
 404 N. MAIN STREET
 COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER
 CHANNEL PATROL SURVEY
 RIVER MILES 300.0 - 273.5



Gage Records 8 June, 2023	
LD 22	15:30 = 7.95
Mundy	11:00 = 8.39
Louisiana	15:30 = 10.0
LD 24	11:00 = 11.82
	15:30 = 26.38

DATES OF SURVEY:
8 June, 2023

FILE NO.:
REQUEST NO.:

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

Approved: **Abednego Nkem**
REGISTERED PROFESSIONAL ENGINEER

Approved: **Jarrett Langer**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Langer**
ASST. CHIEF OF SURVEY

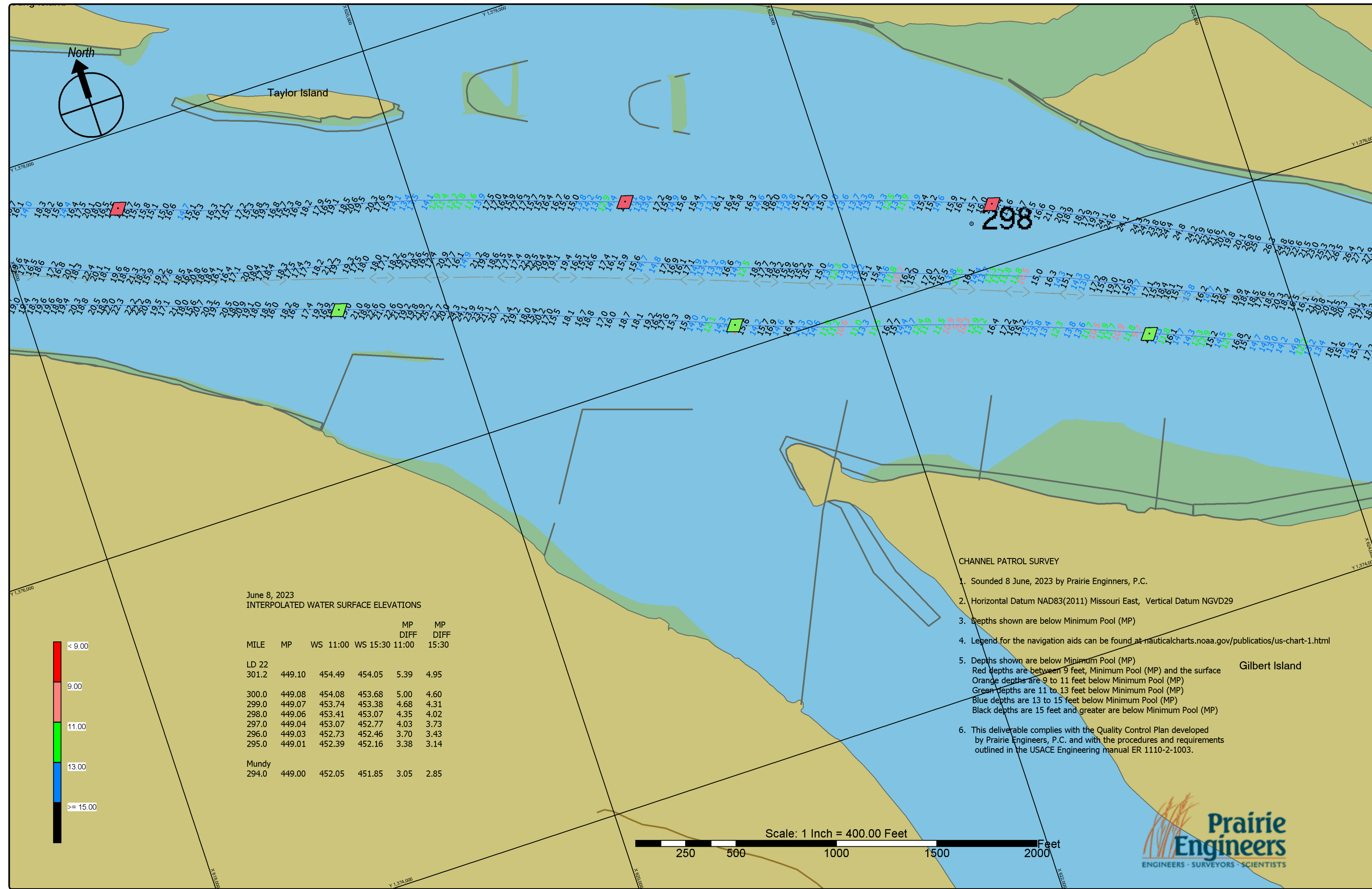
Approved: **Darren Foray**
CHIEF OF SURVEY

Date: 15 June, 2023

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

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CHANNEL PATROL SURVEY
RIVER MILES 300.0 - 273.5



June 8, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

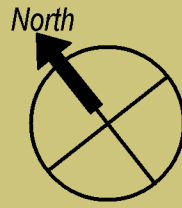
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LD 22	301.2	449.10	454.49	5.39	4.95
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	299.0	449.07	453.74	4.68	4.31
	298.0	449.06	453.41	4.35	4.02
	297.0	449.04	453.07	4.03	3.73
	296.0	449.03	452.73	3.70	3.43
	295.0	449.01	452.39	3.38	3.14
Mundy	294.0	449.00	452.05	3.05	2.85

- CHANNEL PATROL SURVEY
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Scale: 1 Inch = 400.00 Feet

250 500 1000 1500 2000 Feet





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Taylor Crossing Lt. (297.5)

297

FI(2)R 59

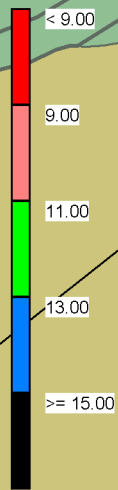
DATES OF SURVEY:	8 June, 2023
FILE NO.:	
REQUEST NO.:	

SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	

Approved: Abderrahmou Nkem RELAYING ENGINEER	Date: 15 June, 2023
Approved: Jarrett Langer CIVIL ENGINEERING TECHNICIAN	
Approved: Jarrett Langer ASST. CHIEF OF SURVEY	
Approved: Darren Foray CHIEF OF SURVEY	

June 8, 2023
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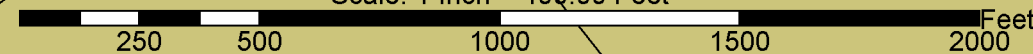


CHANNEL PATROL SURVEY

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Gilbert Island

Scale: 1 Inch = 400.00 Feet



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

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER
CHANNEL PATROL SURVEY
RIVER MILES 300.0 - 273.5



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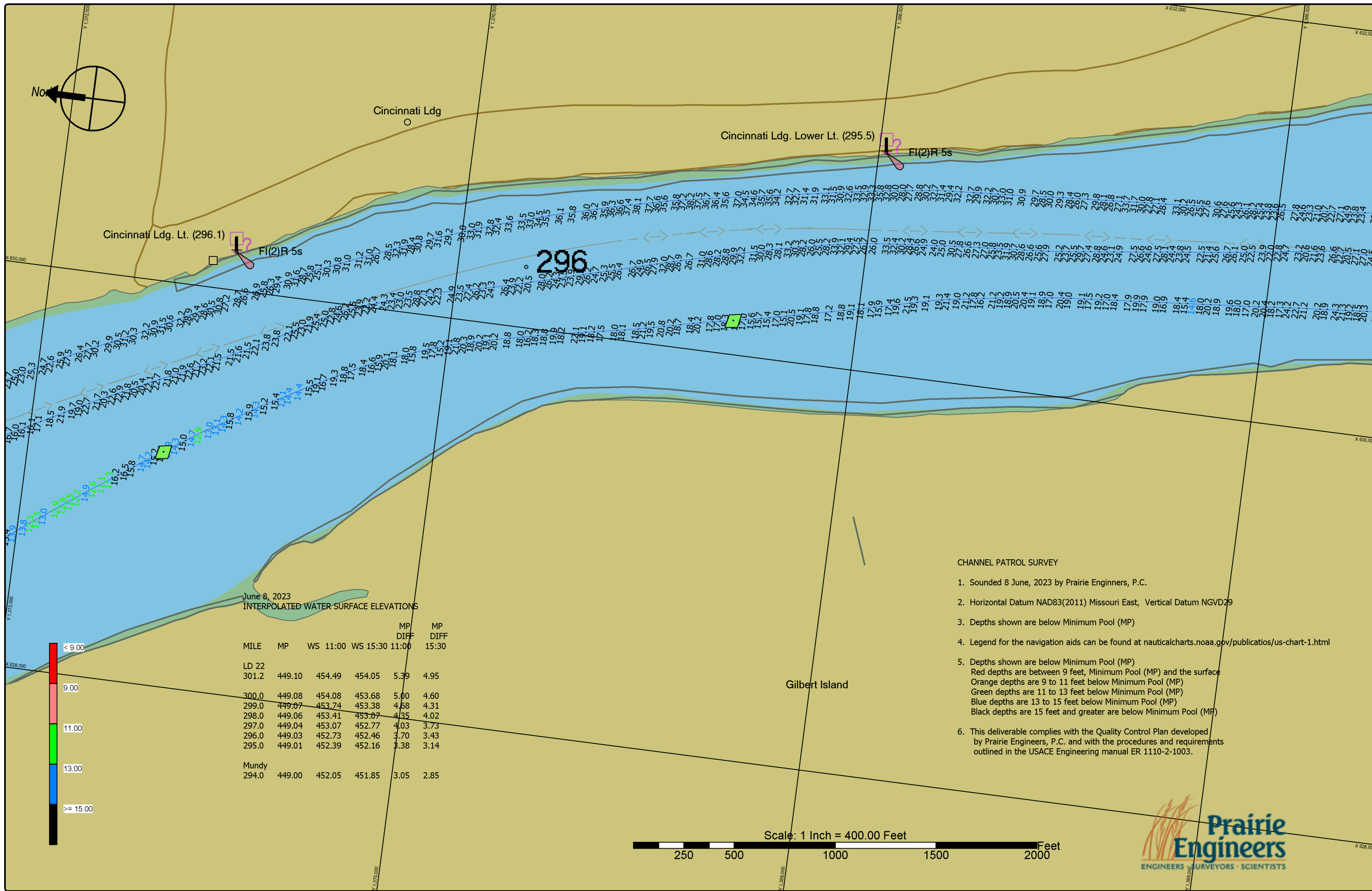
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	

Approved: Abednego Nkem RELAY OPERATOR	Date: 15 June, 2023
Approved: Jarrett Langer CIVIL ENGINEERING TECHNICIAN	
Approved: Jarrett Langer ASST. CHIEF OF SURVEY	
Approved: Darren Foray CHIEF OF SURVEY	

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

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MIDDLE MISSISSIPPI RIVER
CHANNEL PATROL SURVEY
RIVER MILES 300.0 - 273.5



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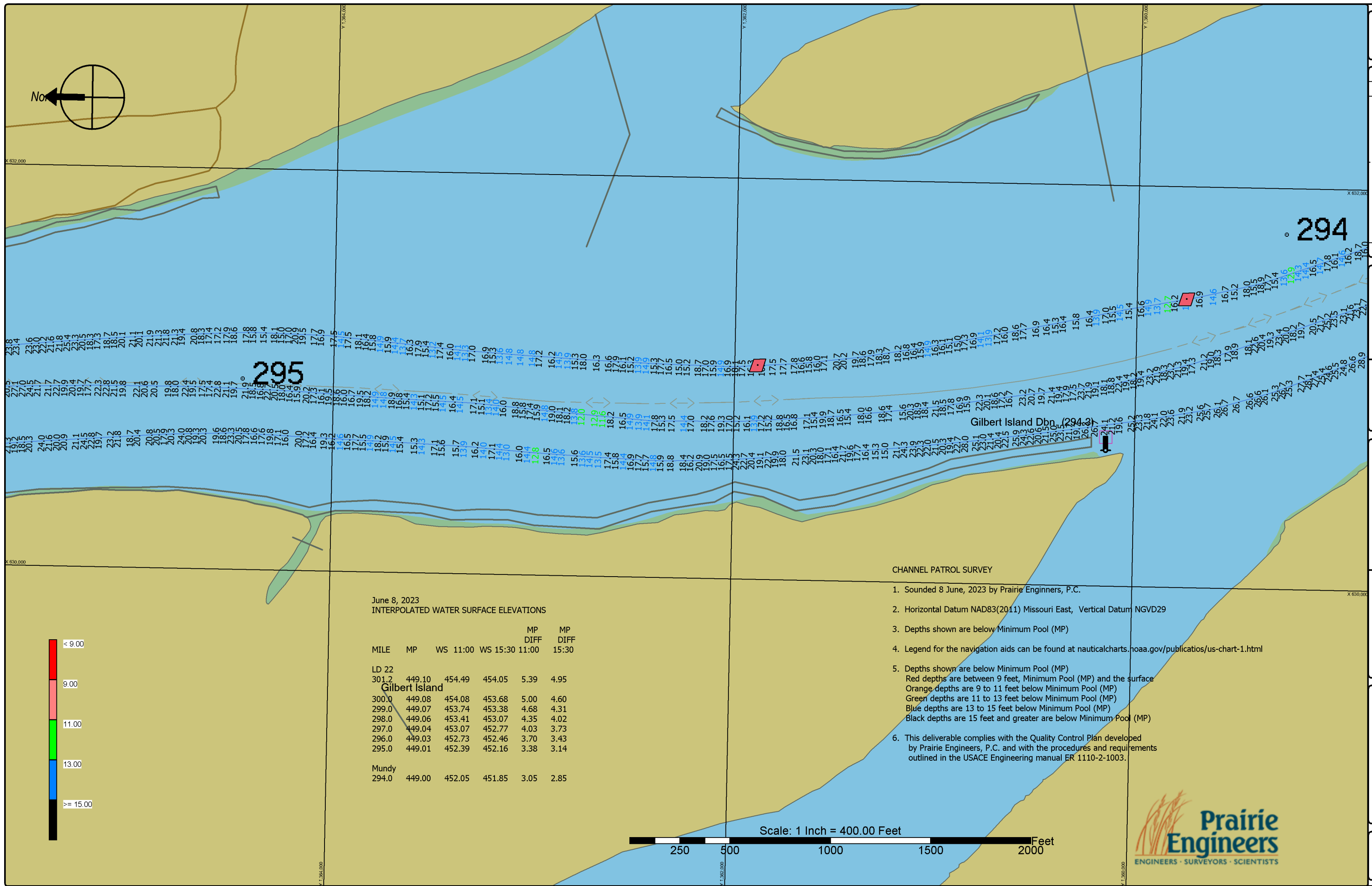
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U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI	Approved: Abednego Nkem DEPUTY CHIEF OF SURVEY
	Approved: Jarrett Langer CIVIL ENGINEERING TECHNICIAN
	Approved: Jarrett Langer ASST. CHIEF OF SURVEY
	Approved: Darren Foray CHIEF OF SURVEY
	Date: 15 June, 2023

MIDDLE MISSISSIPPI RIVER
CHANNEL PATROL SURVEY
RIVER MILES 300.0 - 273.5



June 8, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

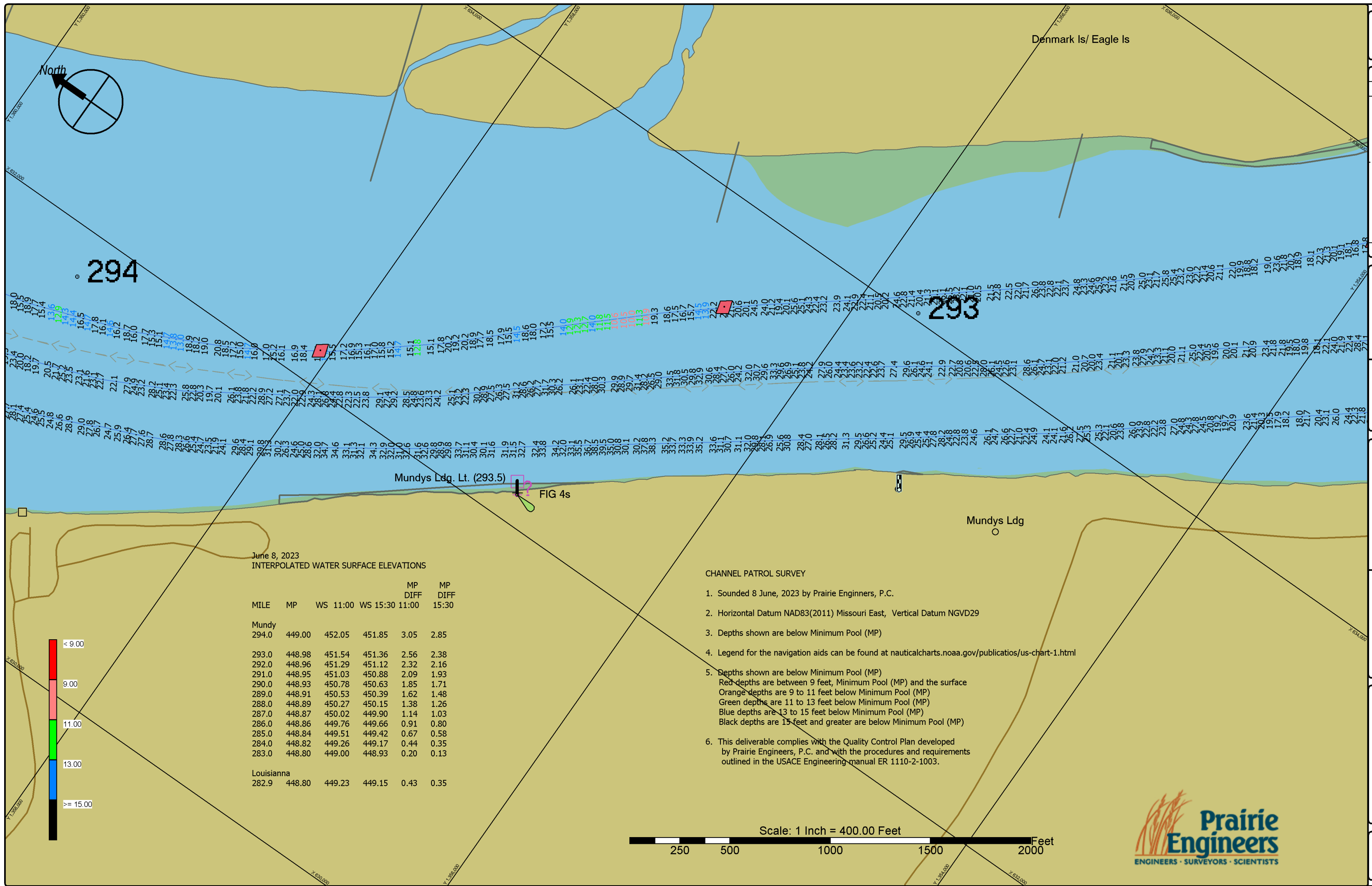
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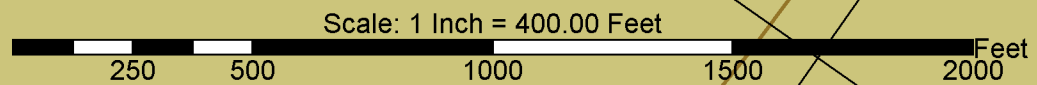


June 8, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

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292.0	448.96	451.29	451.12	2.32	2.16
291.0	448.95	451.03	450.88	2.09	1.93
290.0	448.93	450.78	450.63	1.85	1.71
289.0	448.91	450.53	450.39	1.62	1.48
288.0	448.89	450.27	450.15	1.38	1.26
287.0	448.87	450.02	449.90	1.14	1.03
286.0	448.86	449.76	449.66	0.91	0.80
285.0	448.84	449.51	449.42	0.67	0.58
284.0	448.82	449.26	449.17	0.44	0.35
283.0	448.80	449.00	448.93	0.20	0.13
Louisiana					
282.9	448.80	449.23	449.15	0.43	0.35

CHANNEL PATROL SURVEY

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FILE NO.: _____

REQUEST NO.: _____

Approved: Abednego Nkem
REGISTERED PROFESSIONAL ENGINEER

Approved: Jarrett Lancer
CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Lancer
ASST. CHIEF OF SURVEY

Approved: Darren Foray
CHIEF OF SURVEY

Date: 15 June, 2023

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 ST. LOUIS DISTRICT
 ST. LOUIS, MISSOURI

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 404 N. MAIN STREET
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MIDDLE MISSISSIPPI RIVER
 CHANNEL PATROL SURVEY
 RIVER MILES 300.0 - 273.5



Denmark Is/ Eagle Is

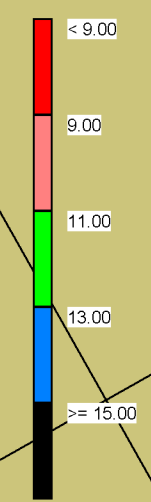
292

Blackbird Island Lt. (292) FIG 4s

Blackbird Island

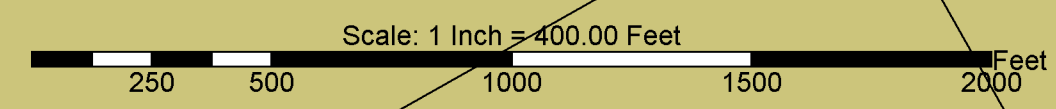
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REQUEST NO.: _____

Approved: Abednego Nkem
 RELAY OPERATOR

Approved: Jarrett Lancer
 CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Lancer
 ASST. CHIEF OF SURVEY

Approved: Darren Foray
 CHIEF OF SURVEY

Date: 15 June, 2023

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 ST. LOUIS, MISSOURI

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 COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER
 CHANNEL PATROL SURVEY
 RIVER MILES 300.0 - 273.5



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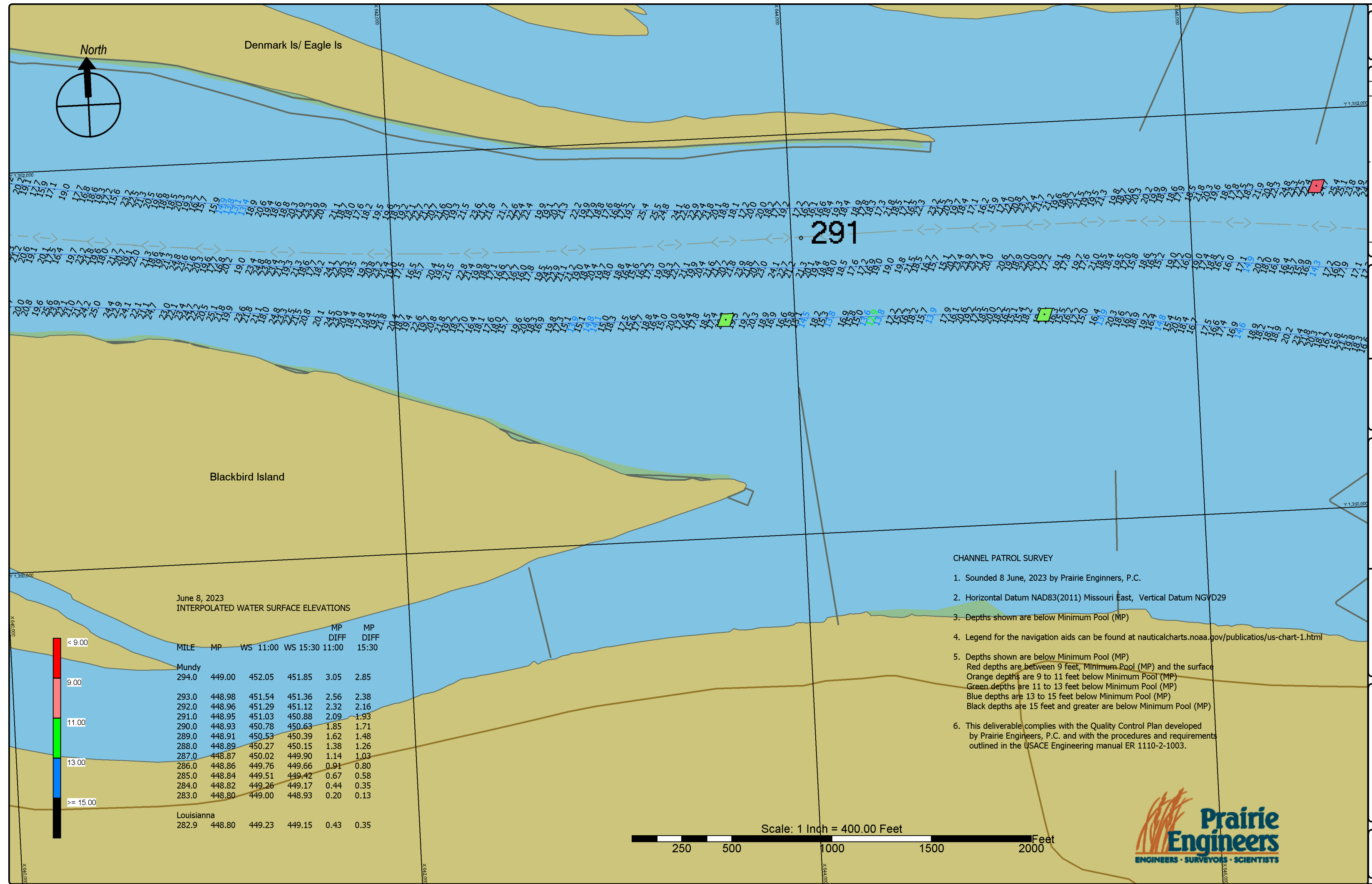
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Approved: <u>Abdennour Nkem</u>
Approved: <u>Jarrett Langer</u>
Approved: <u>Jarrett Langer</u>
Approved: <u>Darren Foray</u>
Date: <u>15 June, 2023</u>

U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI
SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER
CHANNEL PATROL SURVEY
RIVER MILES 300.0 - 273.5



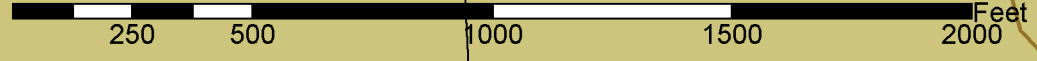
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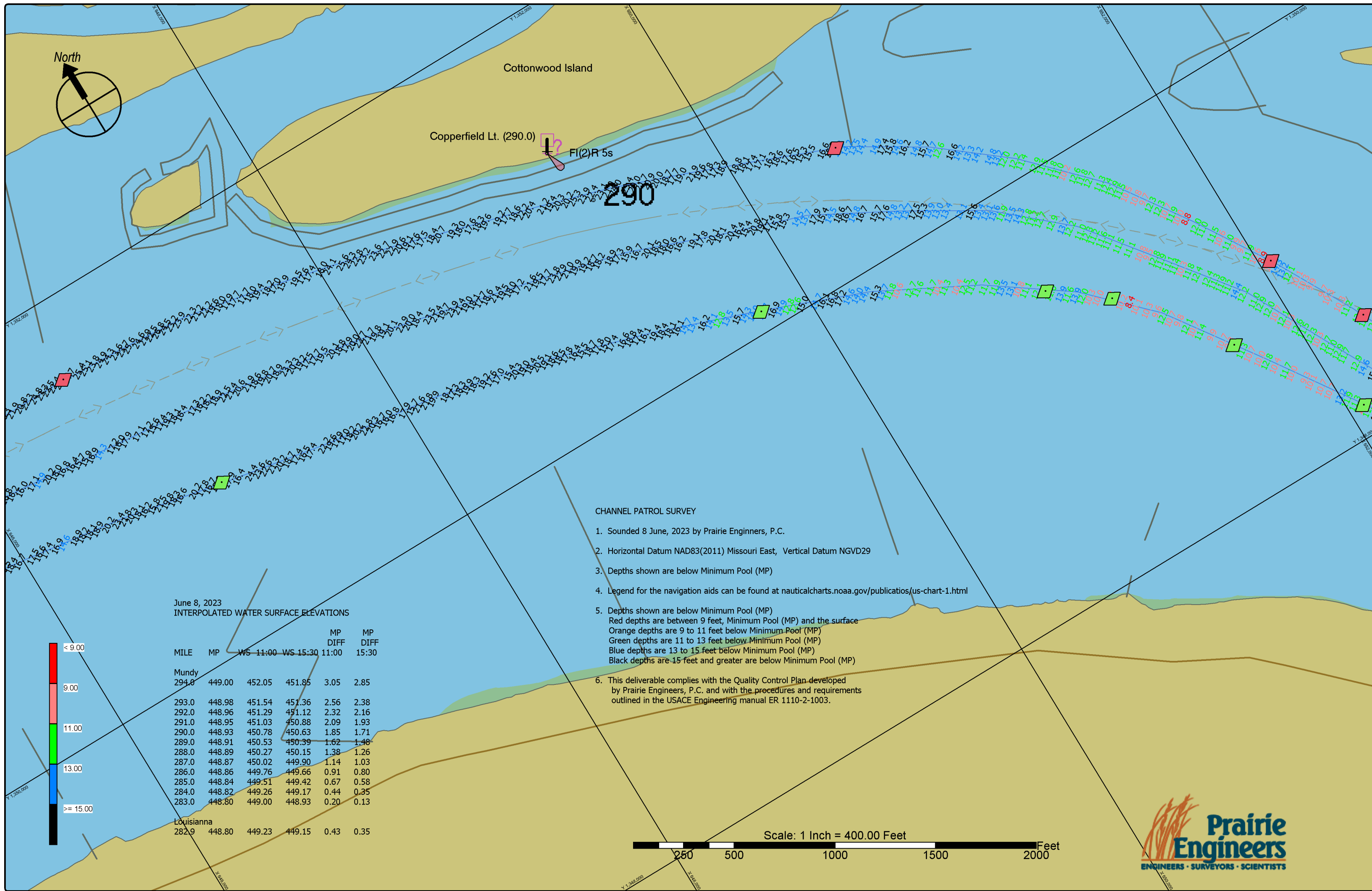
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Approved: Abhedhgo Nkem RELAYING ENGINEER
Approved: Jarrett Lancer CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Lancer ASST. CHIEF OF SURVEY
Approved: Darren Foray CHIEF OF SURVEY
Date: 15 June, 2023

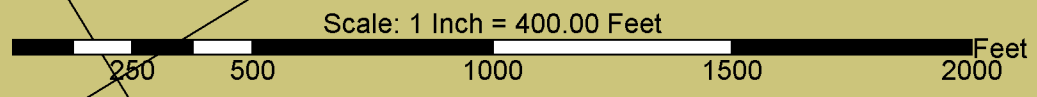
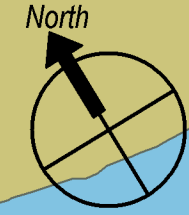
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI
SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER
CHANNEL PATROL SURVEY
RIVER MILES 300.0 - 273.5



June 8, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS		MP DIFF	
		11:00	15:30	11:00	15:30
Mundy					
294.0	449.00	452.05	451.85	3.05	2.85
293.0	448.98	451.54	451.36	2.56	2.38
292.0	448.96	451.29	451.12	2.32	2.16
291.0	448.95	451.03	450.88	2.09	1.93
290.0	448.93	450.78	450.63	1.85	1.71
289.0	448.91	450.53	450.39	1.62	1.48
288.0	448.89	450.27	450.15	1.38	1.26
287.0	448.87	450.02	449.90	1.14	1.03
286.0	448.86	449.76	449.66	0.91	0.80
285.0	448.84	449.51	449.42	0.67	0.58
284.0	448.82	449.26	449.17	0.44	0.35
283.0	448.80	449.00	448.93	0.20	0.13
Louisiana					
282.9	448.80	449.23	449.15	0.43	0.35





Gage Records 8 June, 2023	
LD 22	15:30 = 7.95
Mundy	11:00 = 8.39
Louisiana	15:30 = 10.0
LD 24	11:00 = 11.82
	15:30 = 26.38

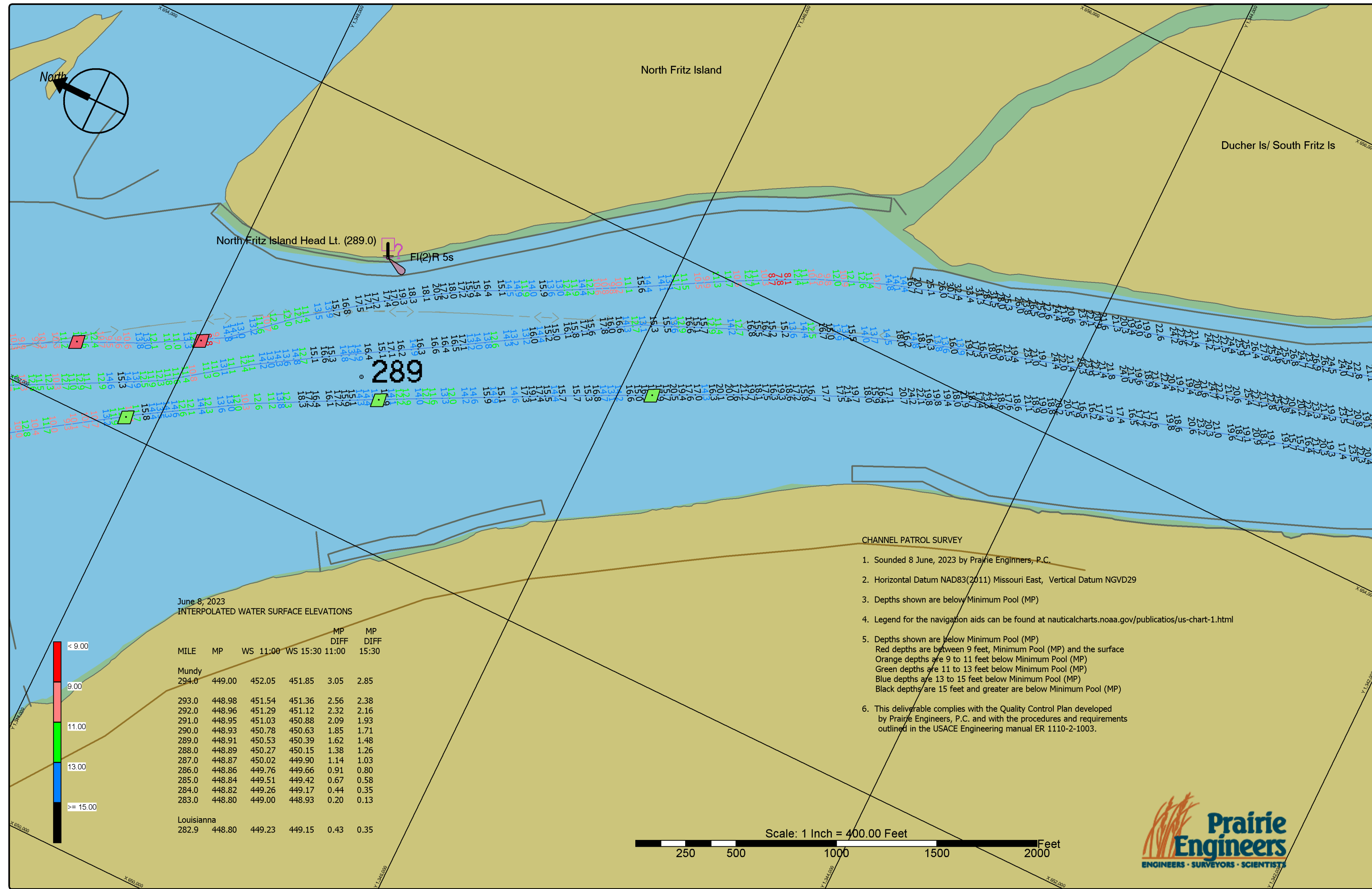
DATES OF SURVEY:	8 June, 2023
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	
FILE NO.:	
REQUEST NO.:	

Approved: **Abednego Nkem**
DEPUTY DISTRICT ENGINEER
 Approved: **Jarrett Langer**
CIVIL ENGINEERING TECHNICIAN
 Approved: **Jarrett Langer**
ASST. CHIEF OF SURVEY
 Approved: **Darren Foray**
CHIEF OF SURVEY
 Date: 15 June, 2023

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

SURVEYED BY
 PRAIRIE ENGINEERS, P.C.
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MIDDLE MISSISSIPPI RIVER
 CHANNEL PATROL SURVEY
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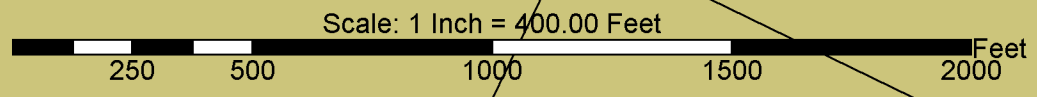


June 8, 2023
 INTERPOLATED WATER SURFACE ELEVATIONS

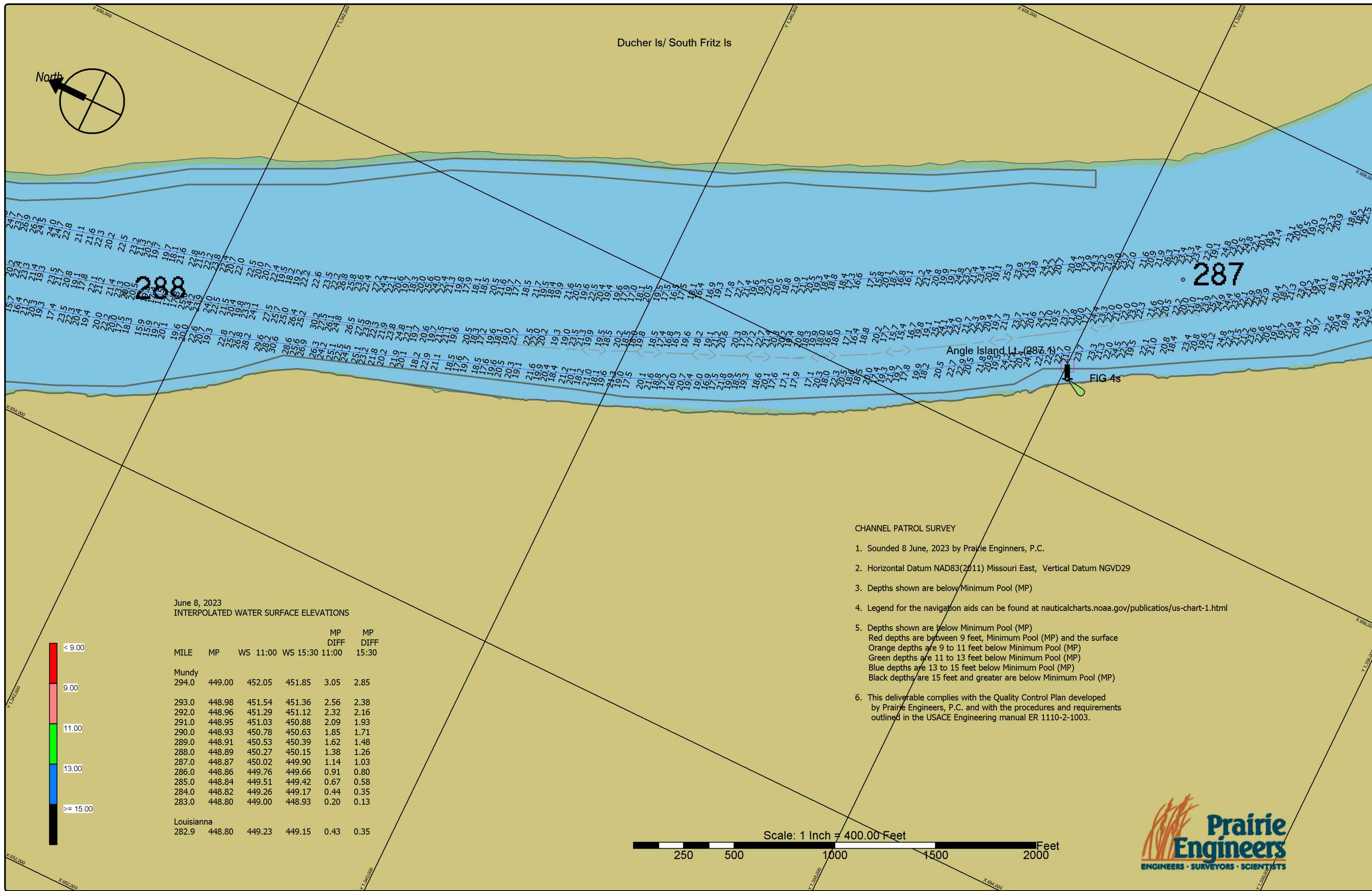
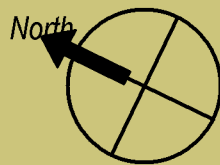
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CHANNEL PATROL SURVEY

- Sounded 8 June, 2023 by Prairie Engineers, P.C.
- Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
 Red depths are between 9 feet, Minimum Pool (MP) and the surface
 Orange depths are 9 to 11 feet below Minimum Pool (MP)
 Green depths are 11 to 13 feet below Minimum Pool (MP)
 Blue depths are 13 to 15 feet below Minimum Pool (MP)
 Black depths are 15 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

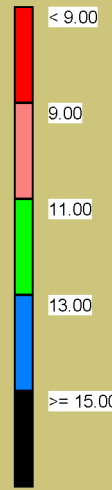


Ducher Is/ South Fritz Is



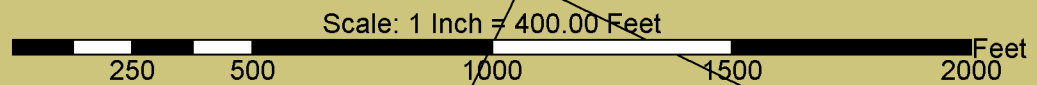
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Approved: **Abednego Nkem**
REGISTERED PROFESSIONAL ENGINEER
 Approved: **Jarrett Langer**
CIVIL ENGINEERING TECHNICIAN
 Approved: **Jarrett Langer**
ASST. CHIEF OF SURVEY
 Approved: **Darren Foray**
CHIEF OF SURVEY
 Date: 15 June, 2023

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