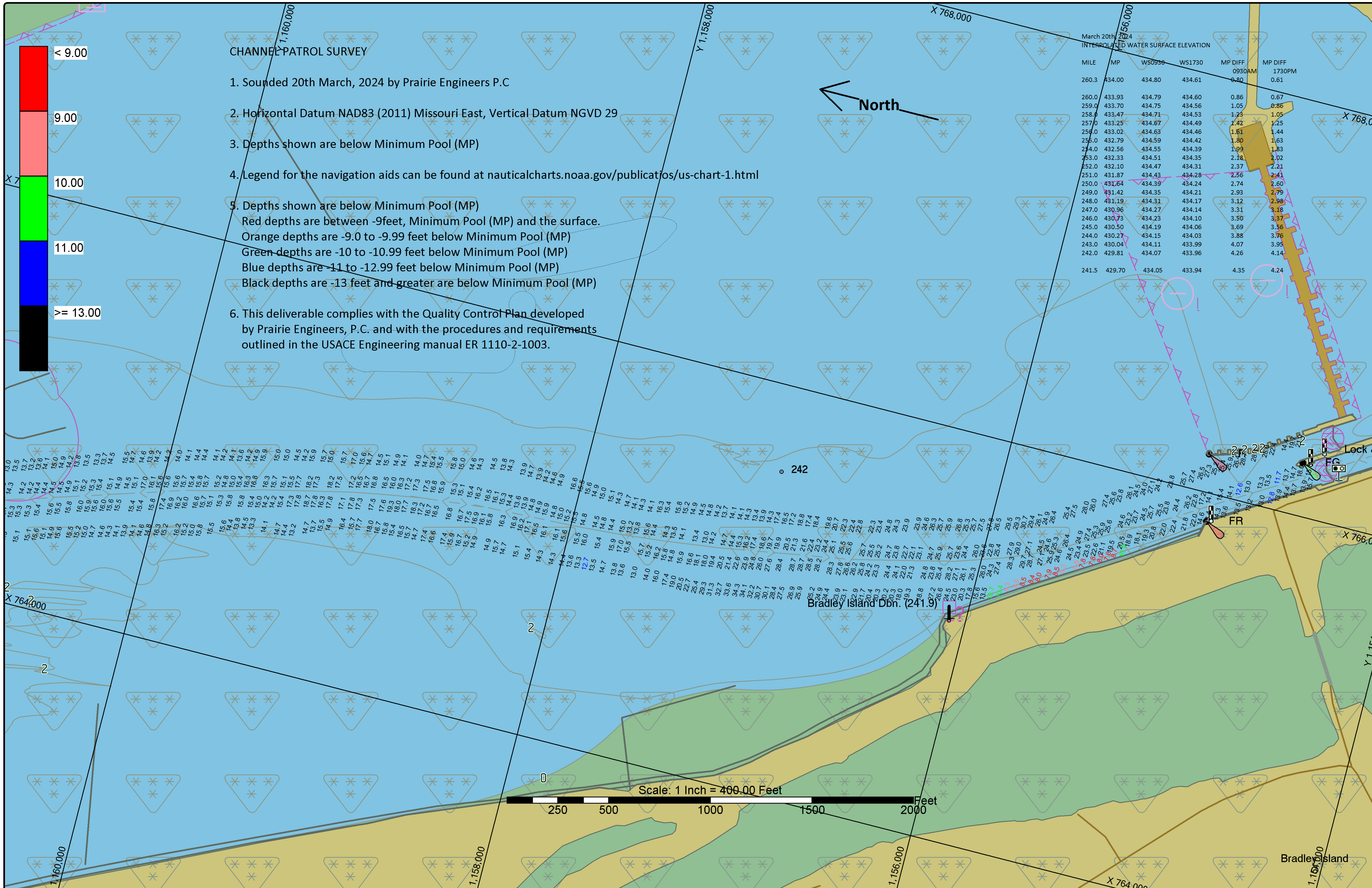


CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY:
MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

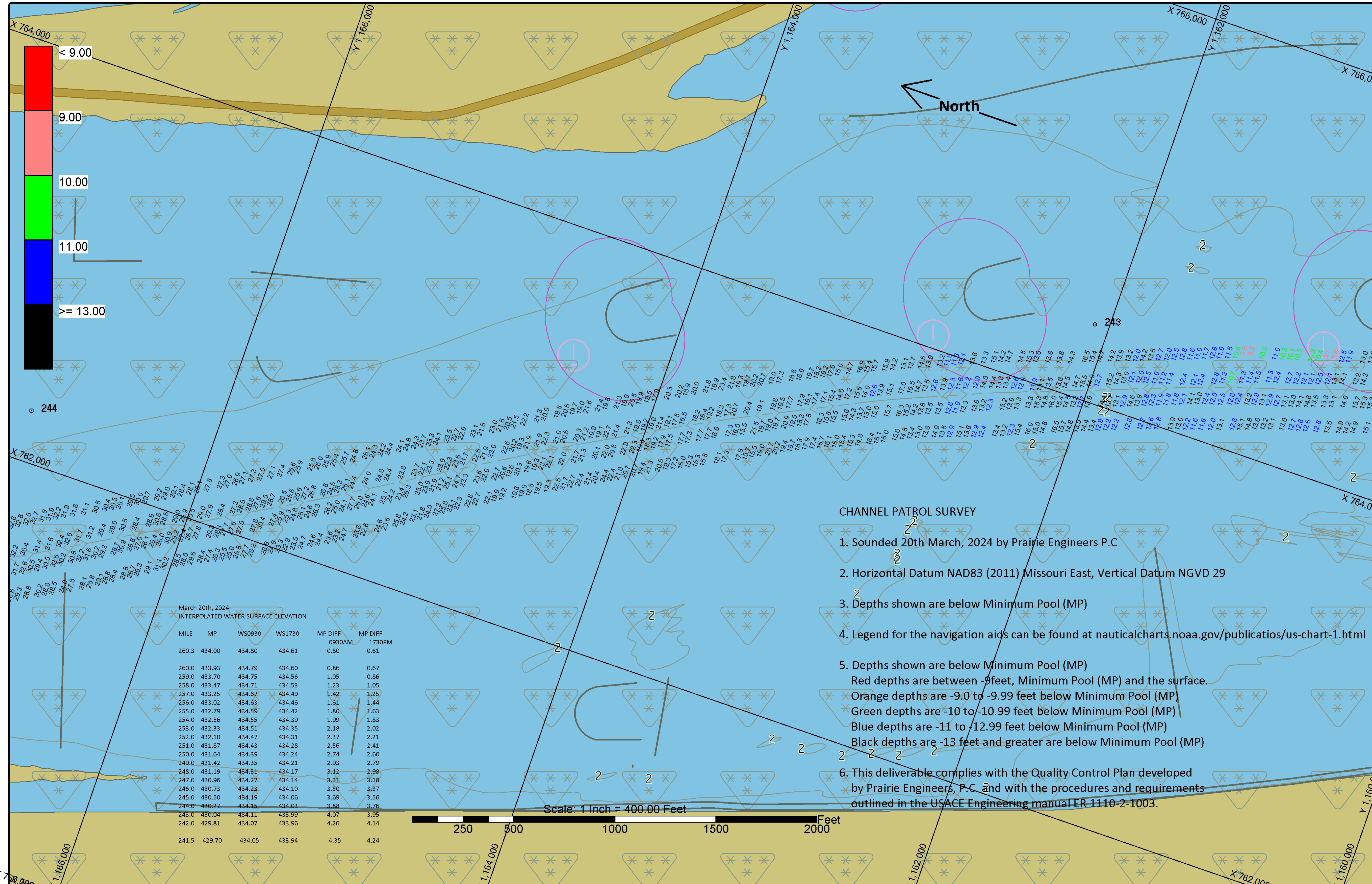
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 039



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
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255.0	432.79	434.59	434.42	1.80	1.63
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253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

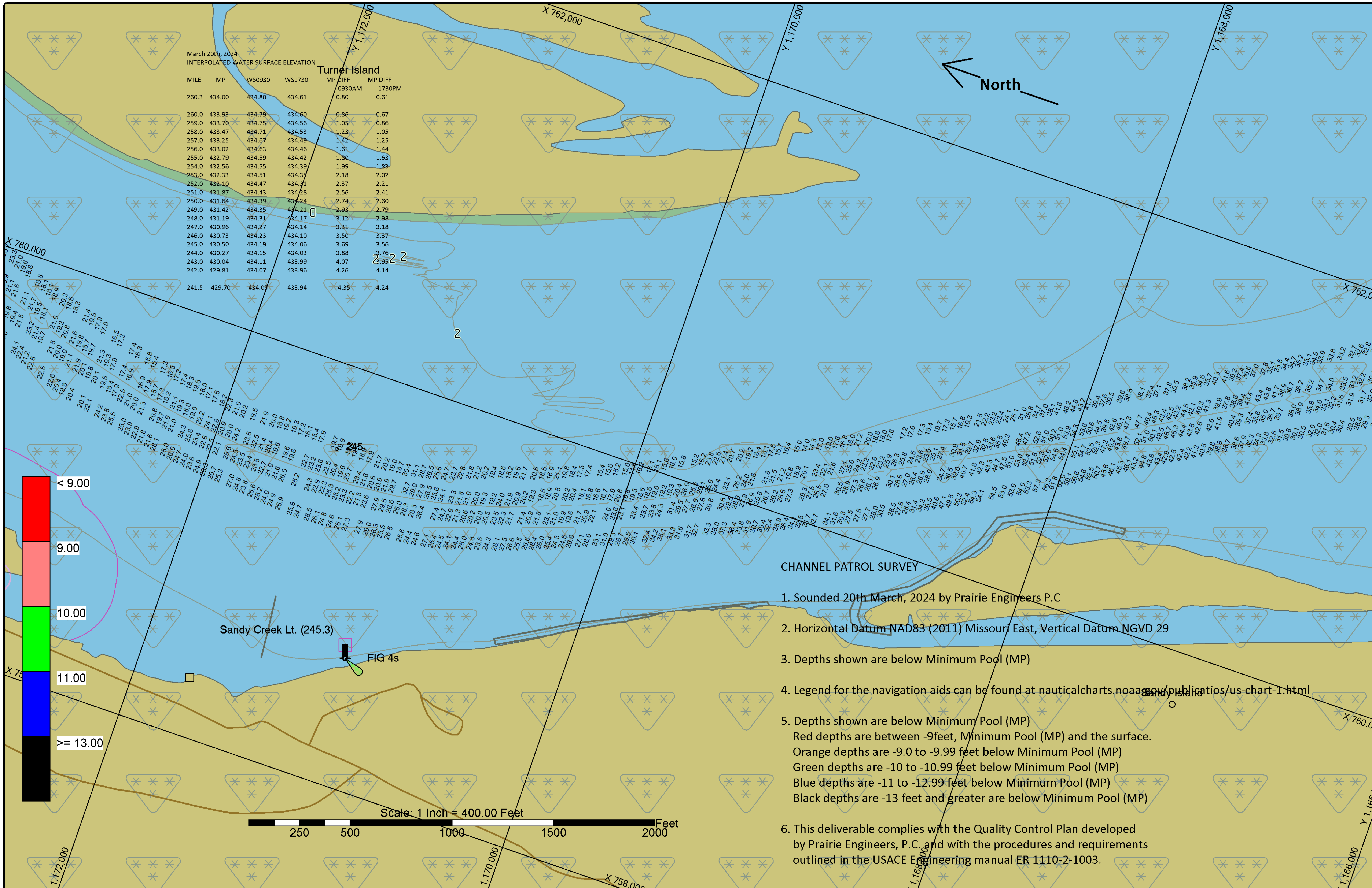
Approved: Abednego Nkem, FIELD CARTOGRAPHER
Approved: Tom Frerichs, CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer, ASST. CHIEF OF SURVEY
Approved: Tristan Harper, CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 040



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

FILE NO.:
REQUEST NO.:

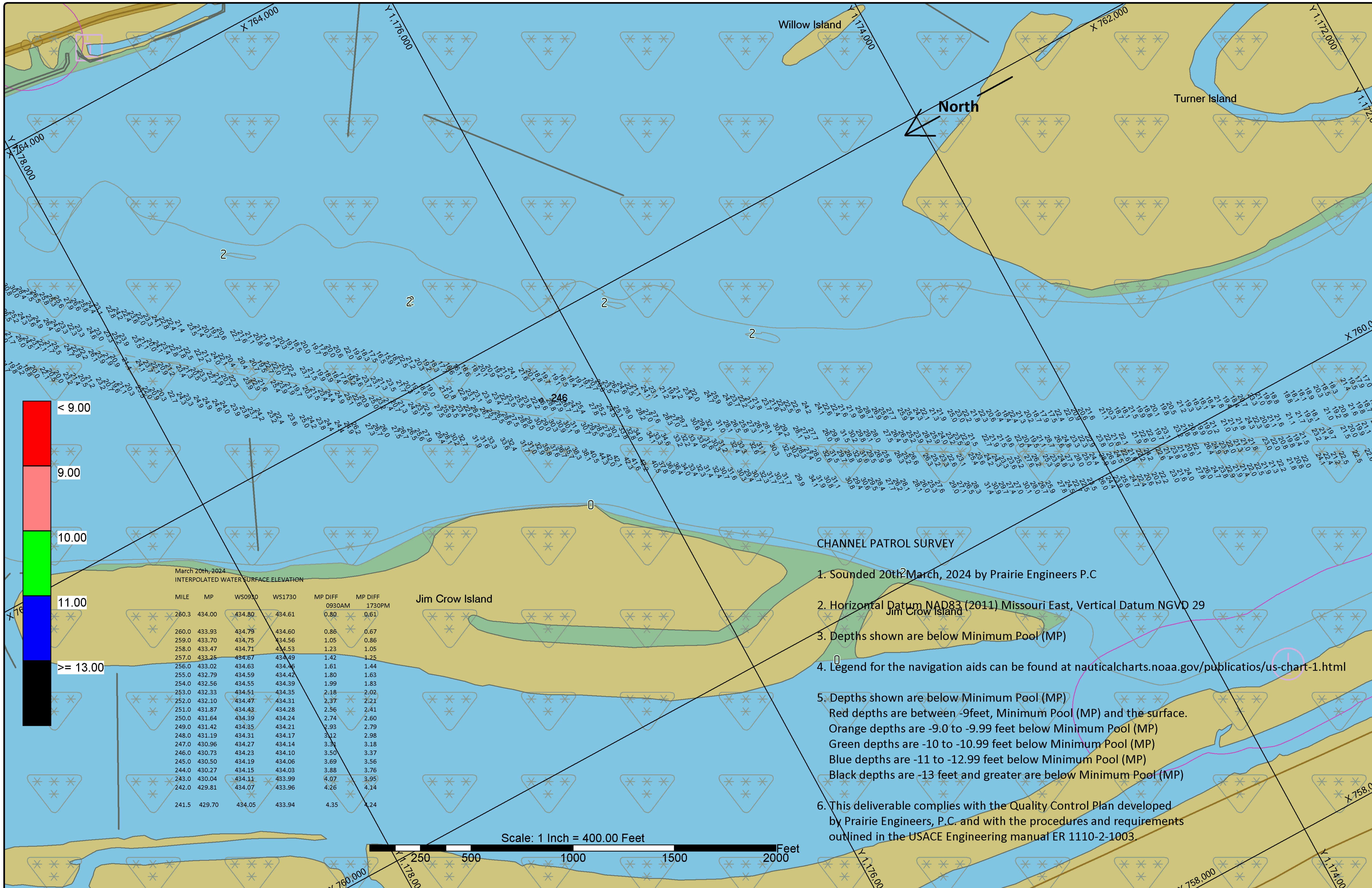
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 041



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
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253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
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244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

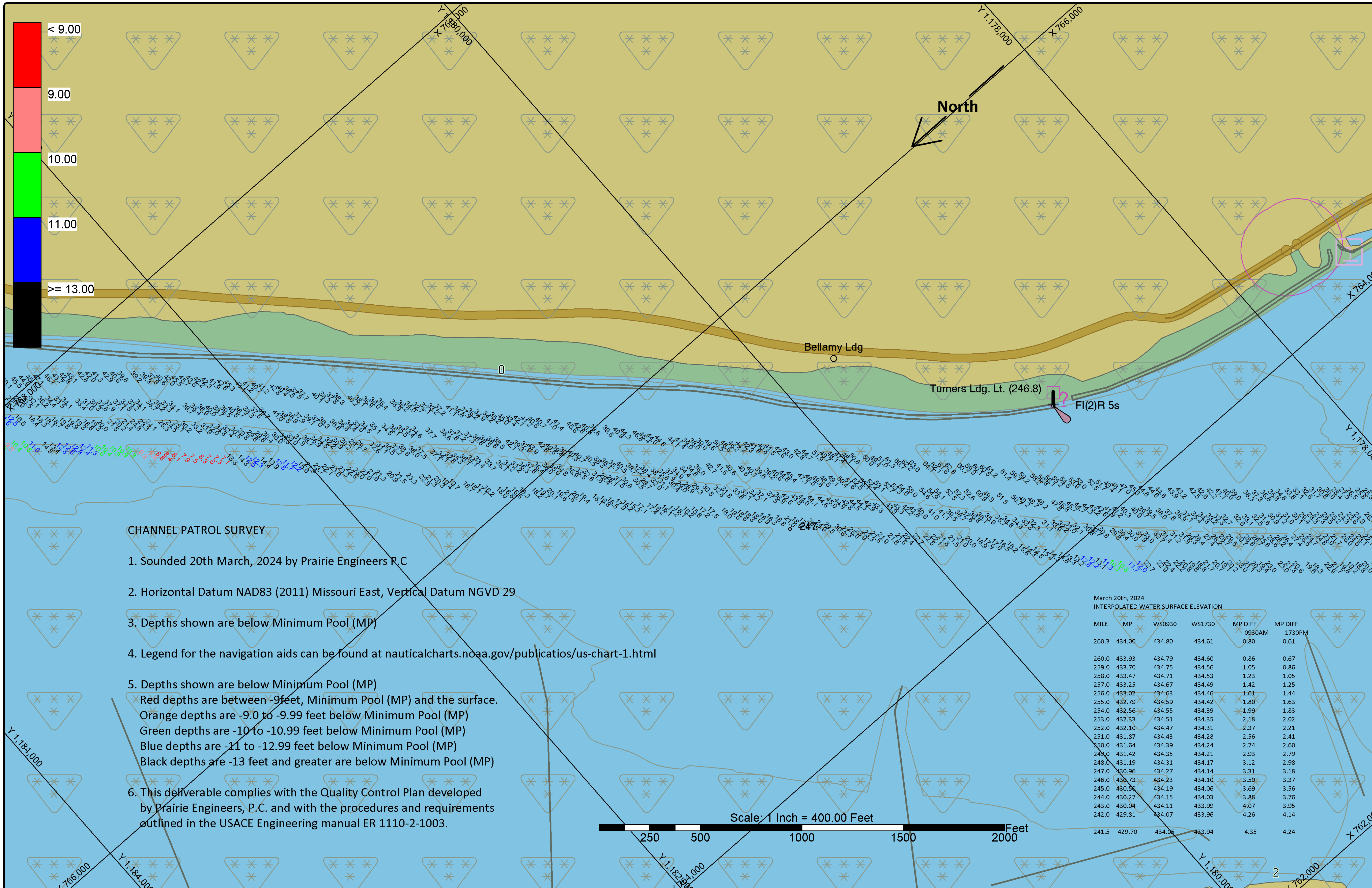
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 042



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

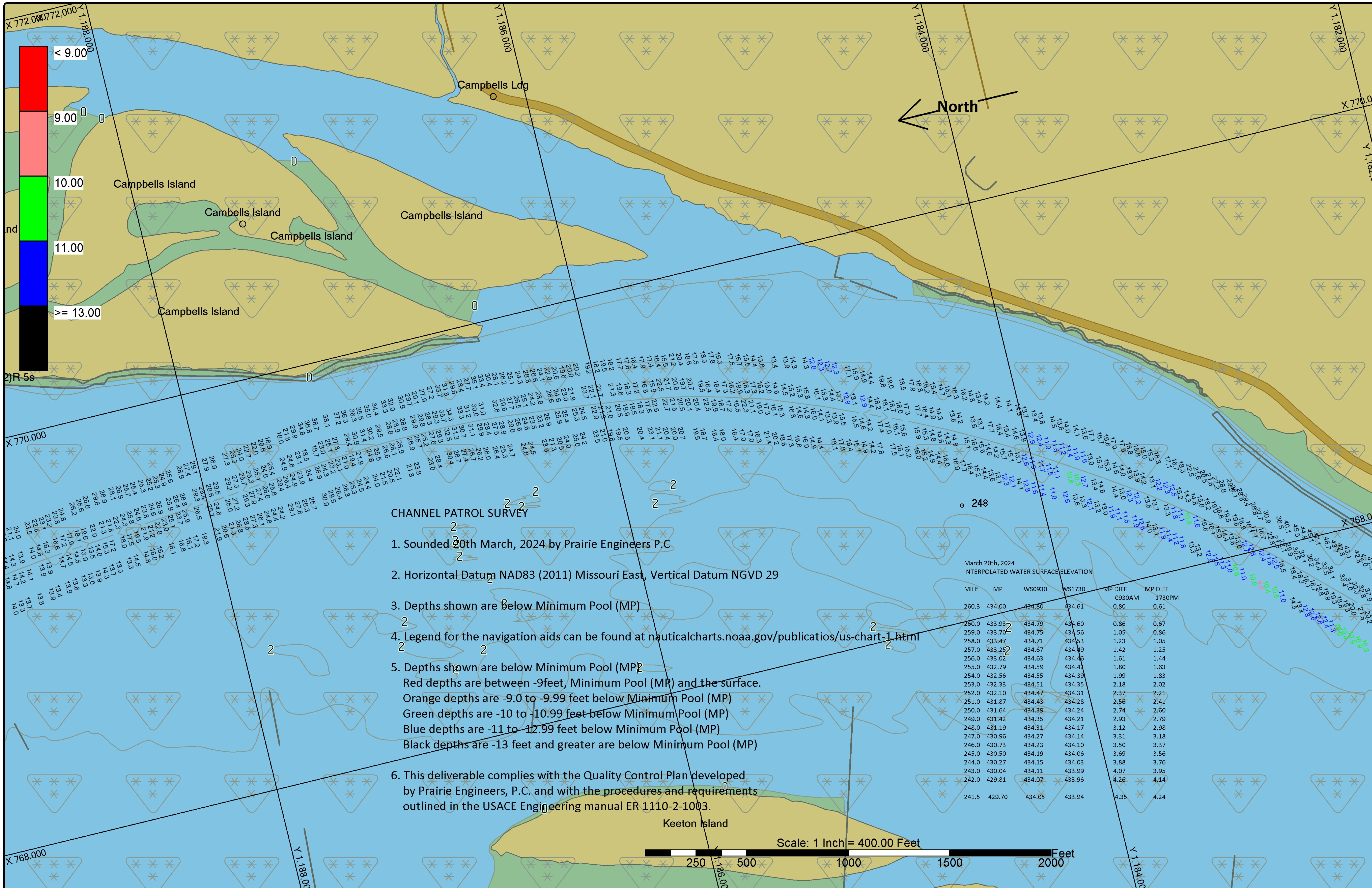
Approved: Abednego Nkem — FIELD CARTOGRAPHER
Approved: Tom Frerichs — CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer — ASST. CHIEF OF SURVEY
Approved: Tristan Harper — CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 043



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
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   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
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257.0	433.25	434.67	434.49	1.42	1.25
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253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
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243.0	430.04	434.11	433.99	4.07	3.95
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ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
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DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

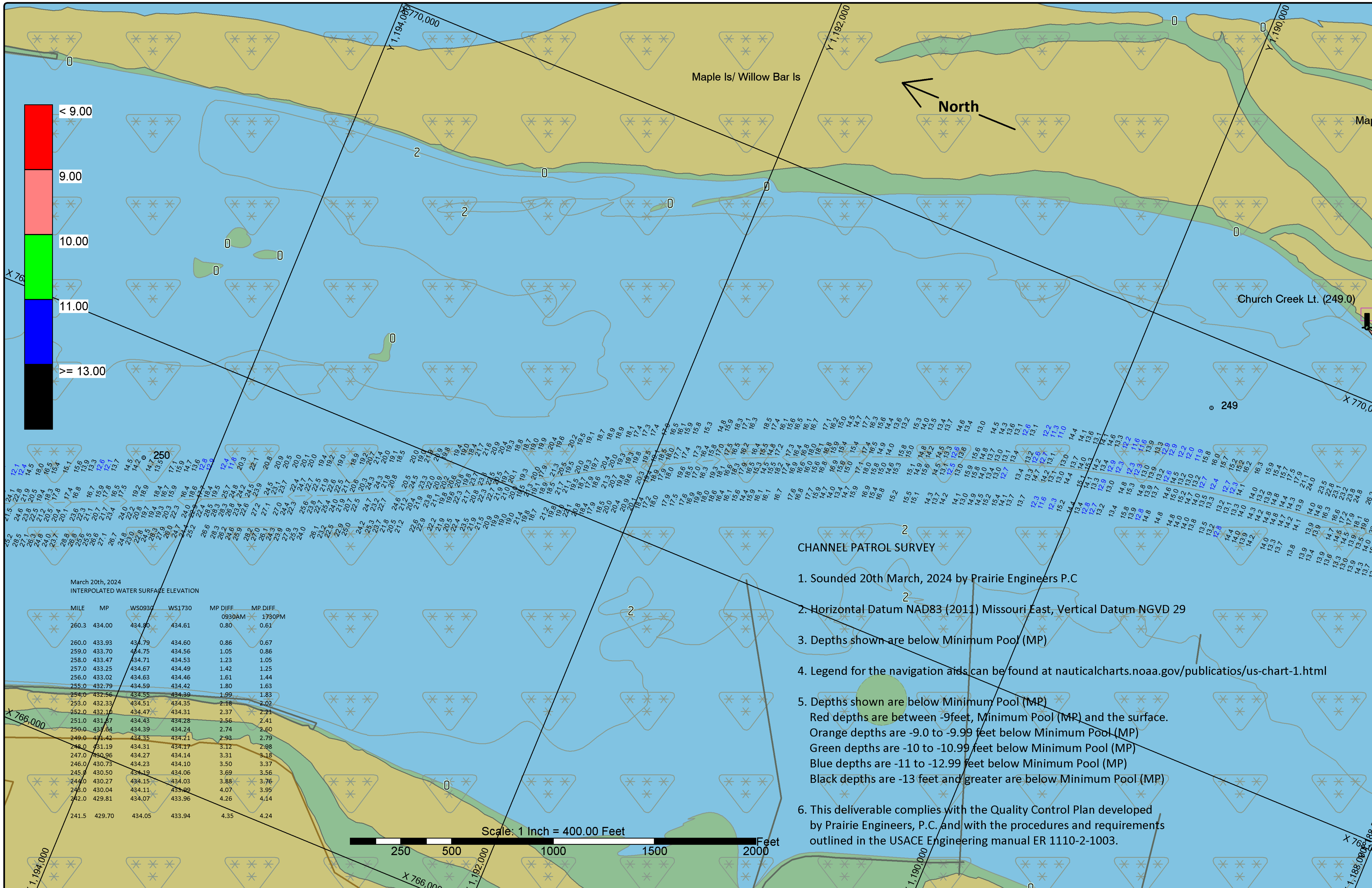
Approved: Abednego Nkem — FIELD CARTOGRAPHER
Approved: Tom Frerichs — CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer — ASST. CHIEF OF SURVEY
Approved: Tristan Harper — CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 044



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
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255.0	432.79	434.59	434.42	1.80	1.63
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253.0	432.33	434.51	434.35	2.18	2.02
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244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

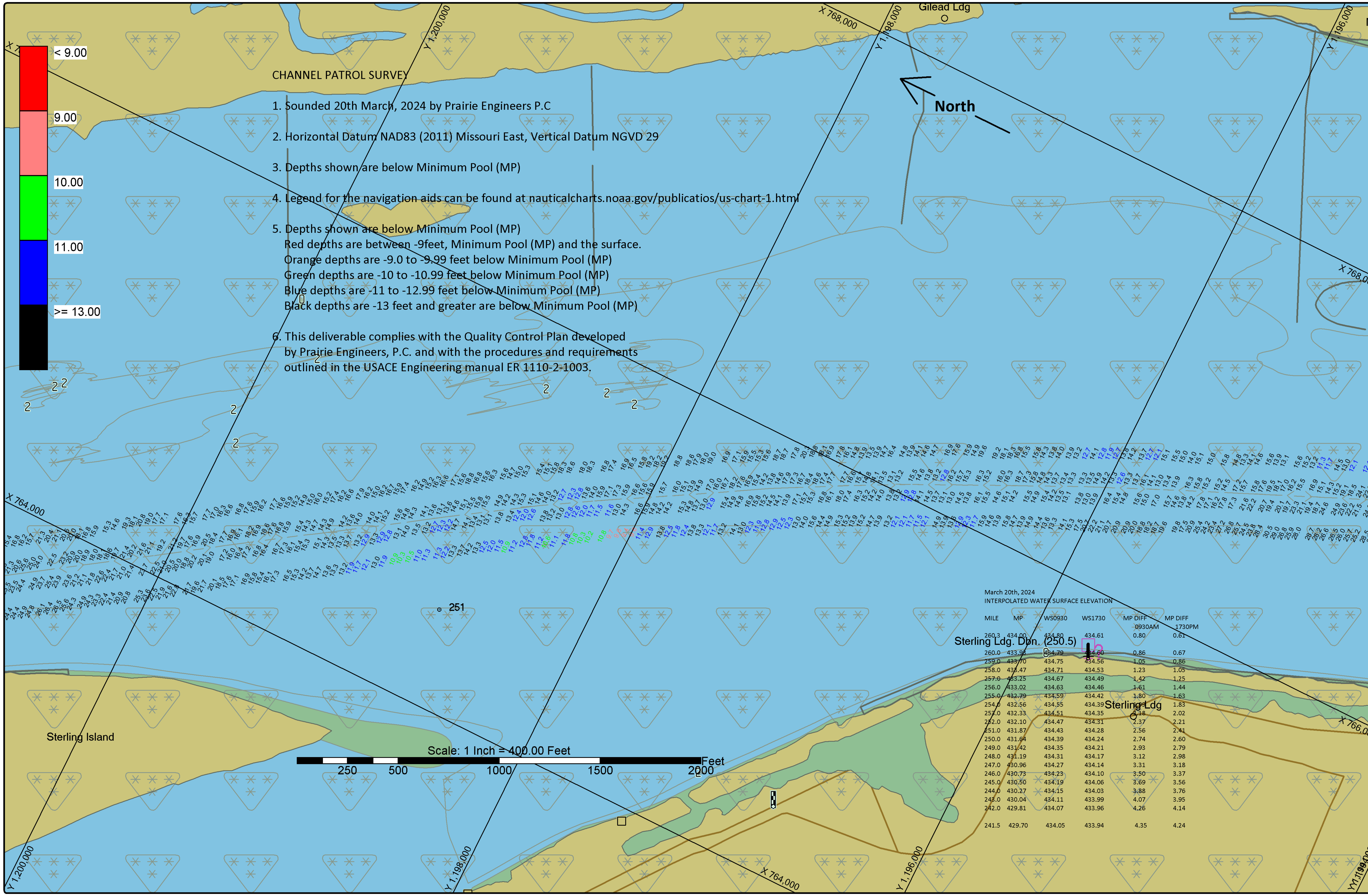
Approved: Abednego Nkem — FIELD CARTOGRAPHER
Approved: Tom Frerichs — CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer — ASST. CHIEF OF SURVEY
Approved: Tristan Harper — CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 045



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
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   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

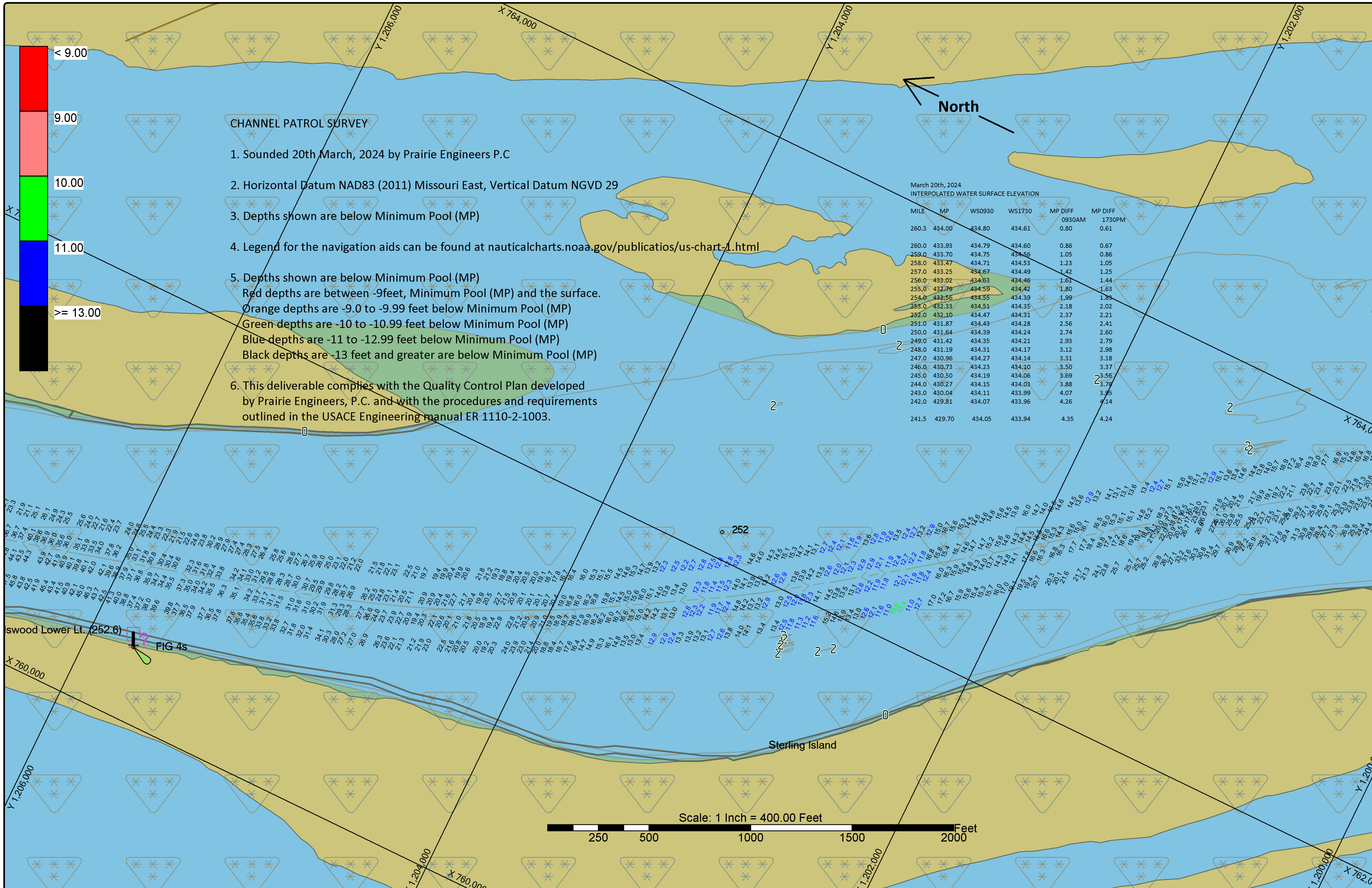
FIELD BOOKS:

Approved: Abednego Nkem — FIELD CARTOGRAPHER
Approved: Tom Frerichs — CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer — ASST. CHIEF OF SURVEY
Approved: Tristan Harper — CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
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   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY:
MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

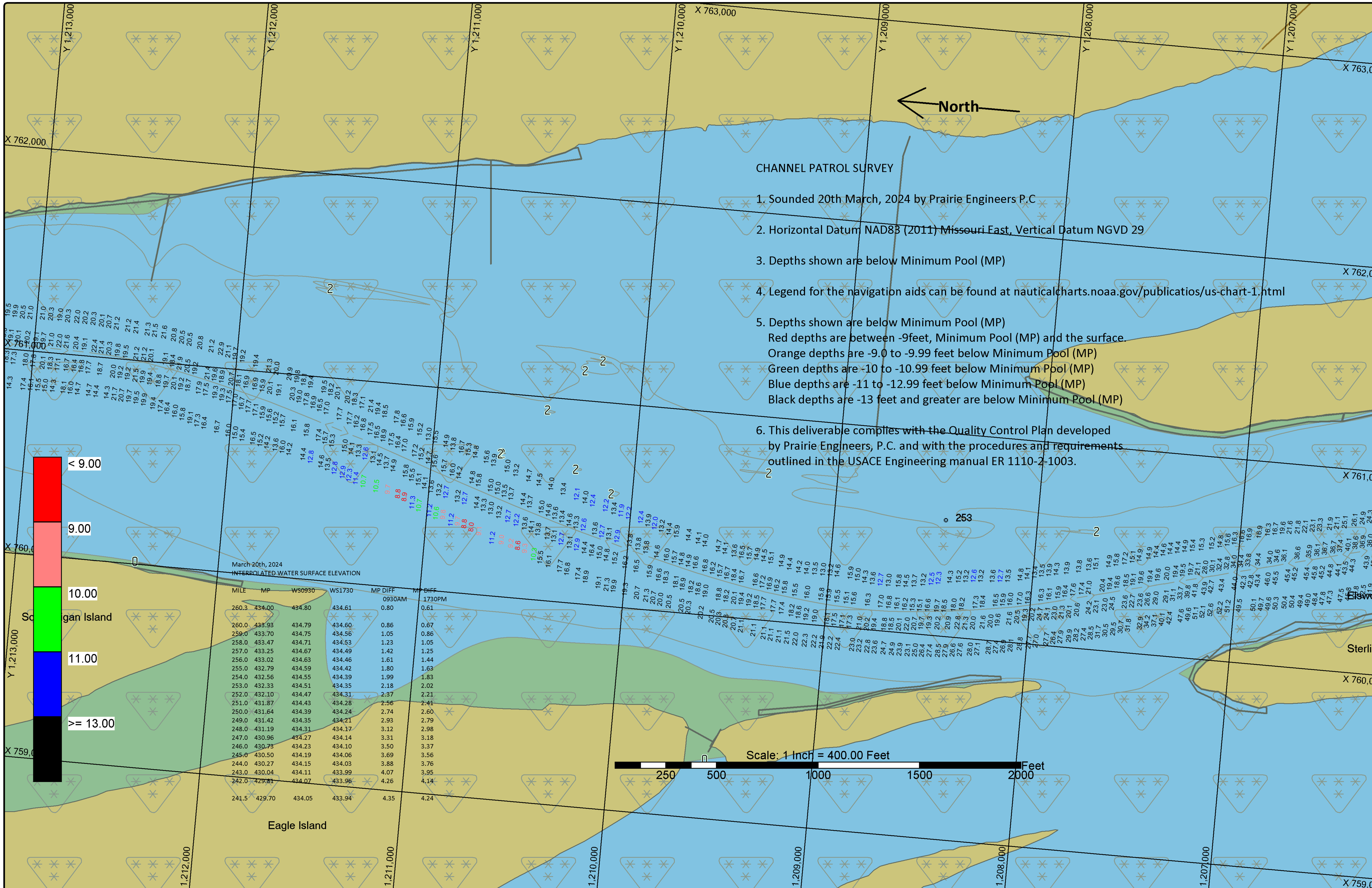
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 047



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

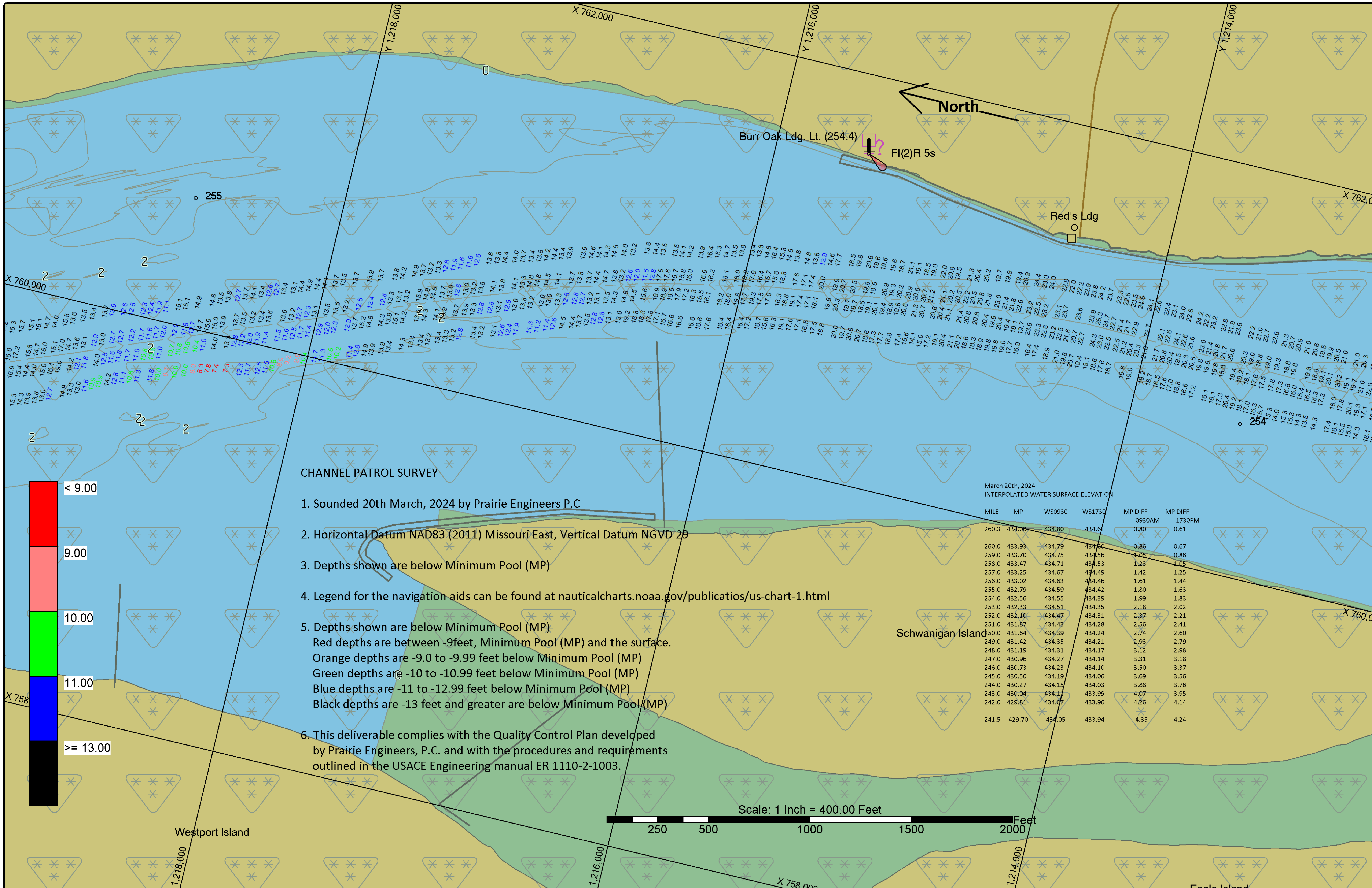
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 048



< 9.00
9.00
10.00
11.00
>= 13.00

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
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   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
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253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
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245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

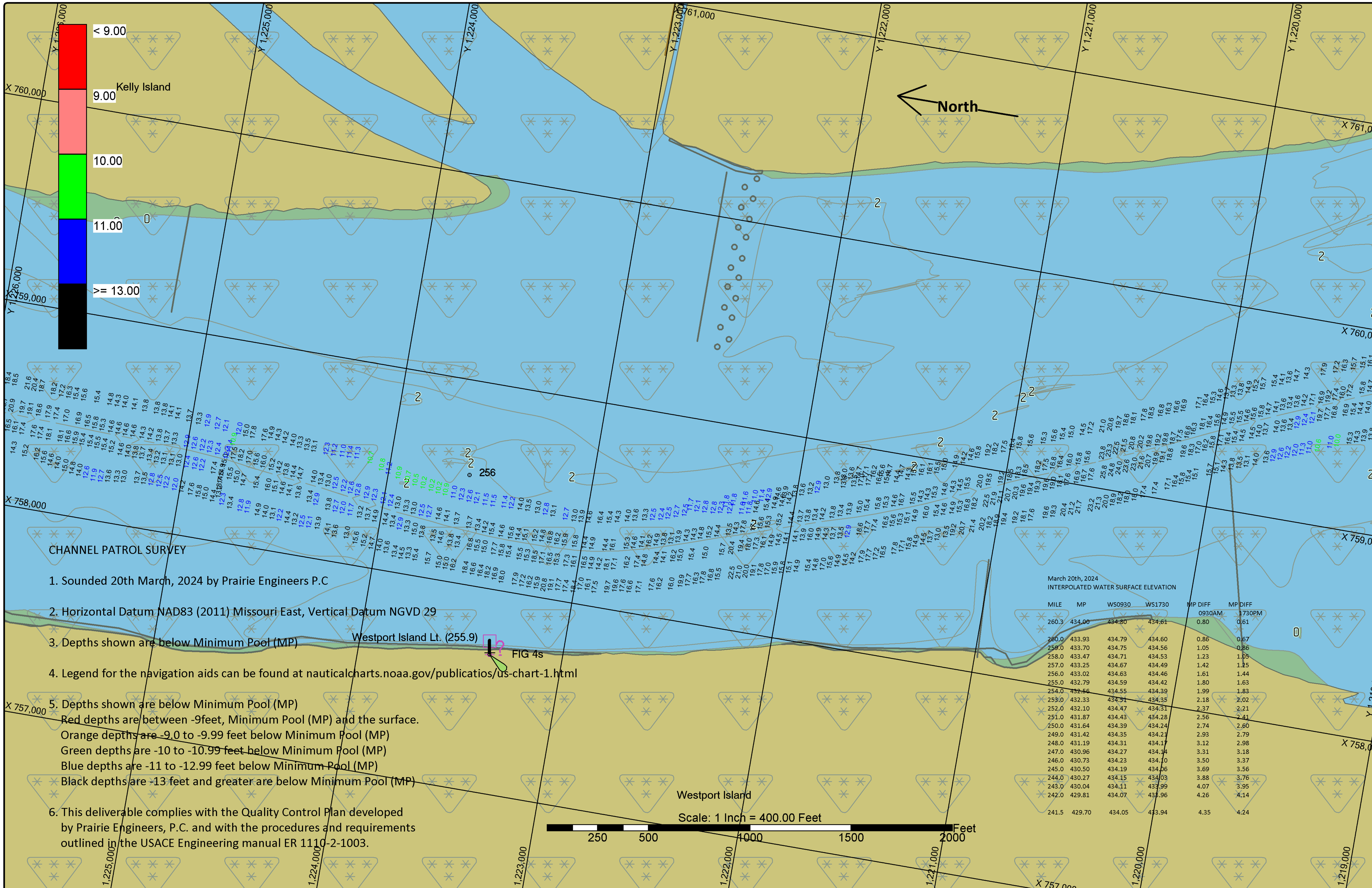
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 049



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
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March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
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245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
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ST.LOUIS

Gage Records 20th March 2024
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DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

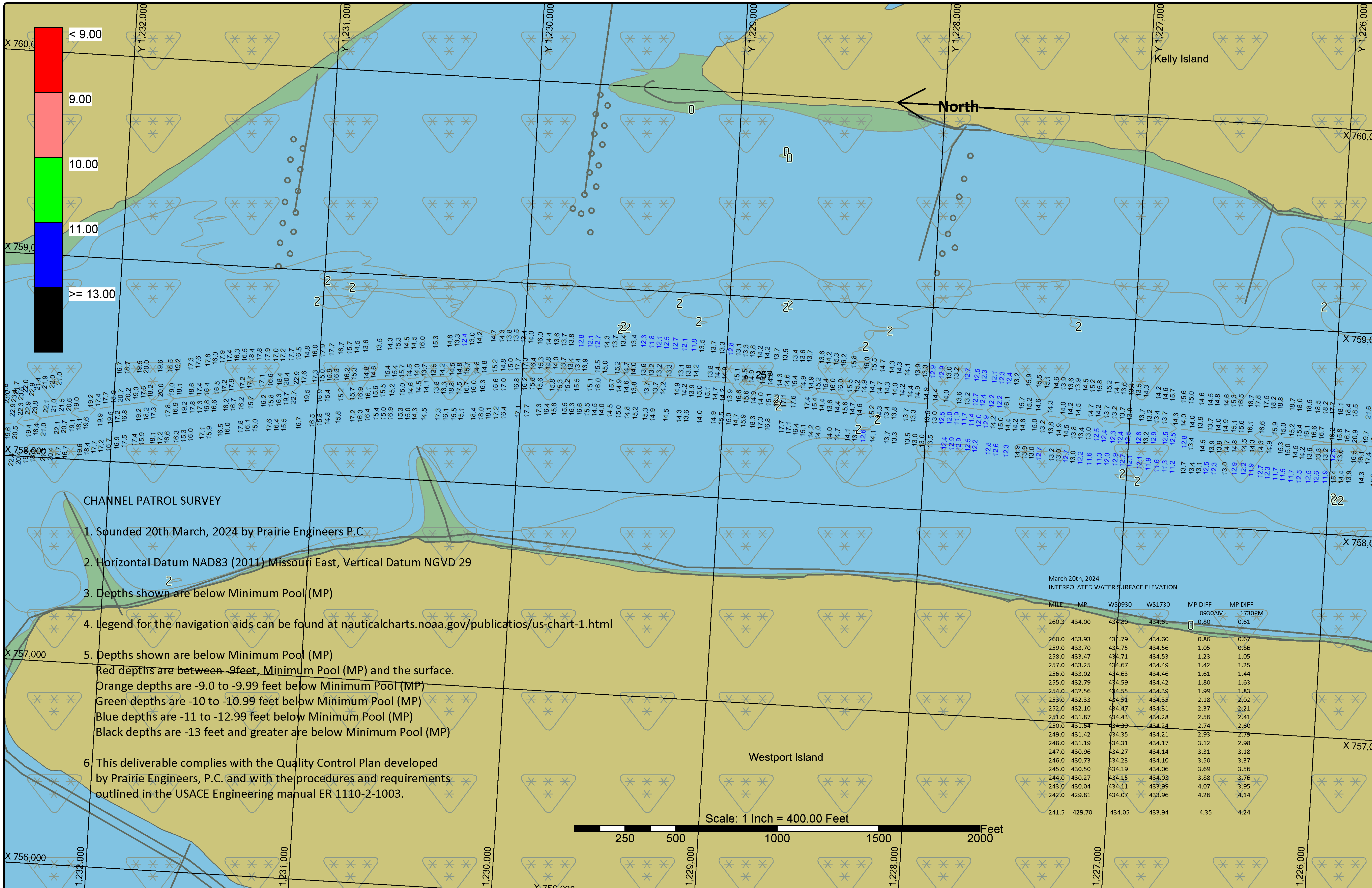
Approved: Abednego Nkem — FIELD CARTOGRAPHER
Approved: Tom Frerichs — CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer — ASST. CHIEF OF SURVEY
Approved: Tristan Harper — CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 056



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

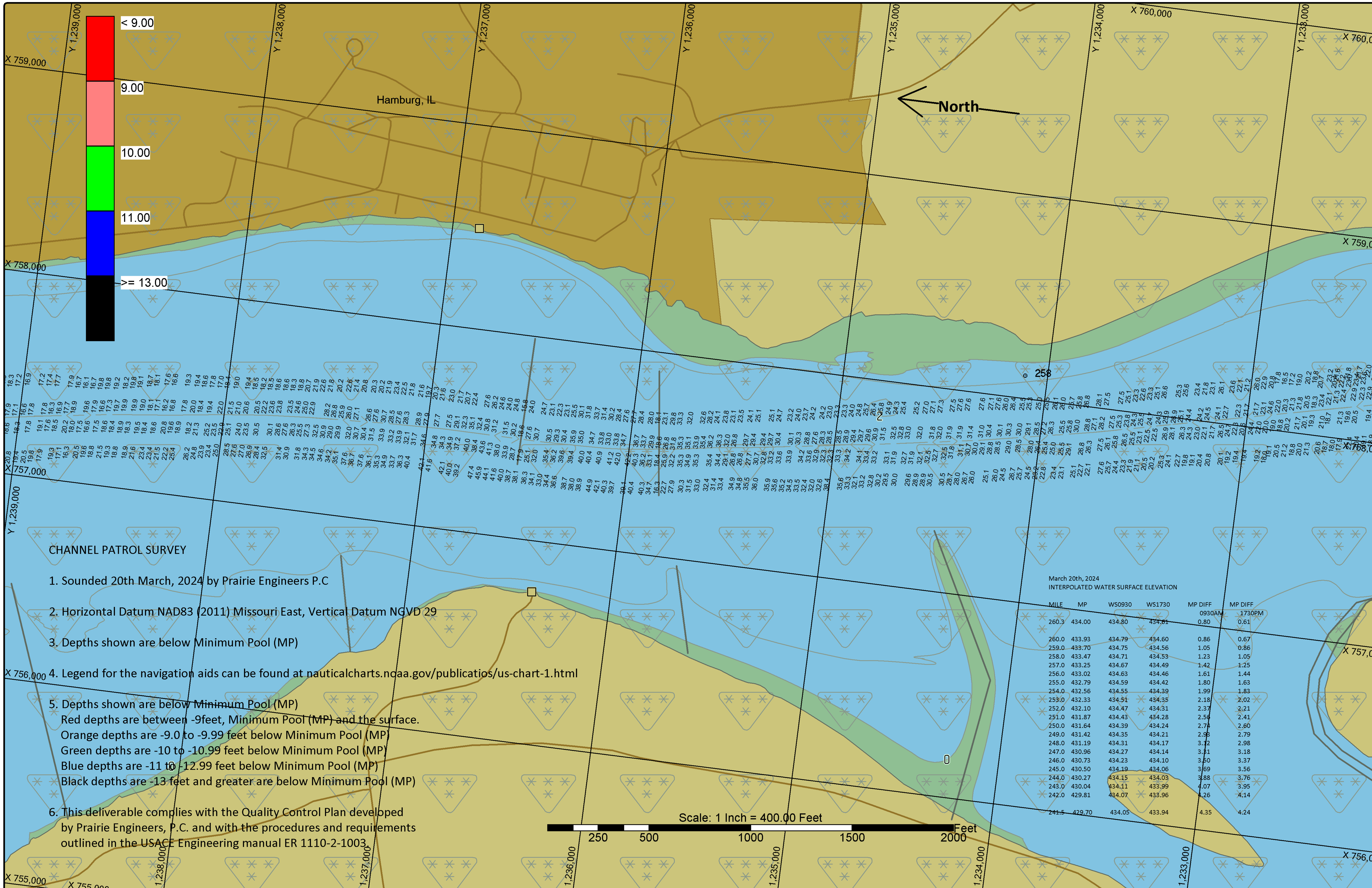
Approved: Abednego Nkem, FIELD CARTOGRAPHER
Approved: Tom Frerichs, CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer, ASST. CHIEF OF SURVEY
Approved: Tristan Harper, CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 051



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
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Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY:
MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

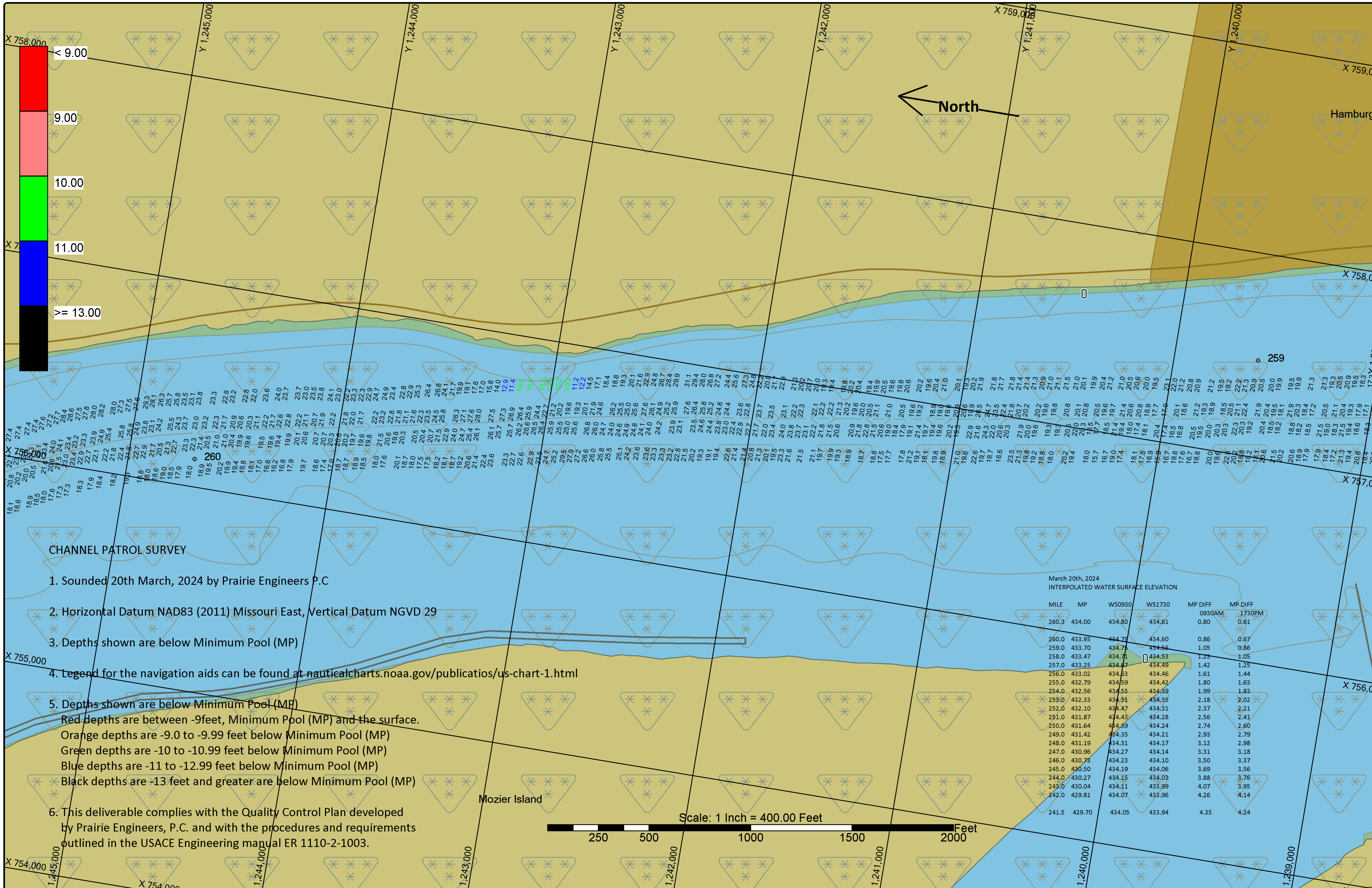
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 052



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
260.3	434.00	434.80	434.61	0.80	0.61
260.0	433.93	434.79	434.60	0.86	0.67
259.0	433.70	434.75	434.56	1.05	0.86
258.0	433.47	434.71	434.53	1.23	1.05
257.0	433.25	434.67	434.49	1.42	1.25
256.0	433.02	434.63	434.46	1.61	1.44
255.0	432.79	434.59	434.42	1.80	1.63
254.0	432.56	434.55	434.39	1.99	1.83
253.0	432.33	434.51	434.35	2.18	2.02
252.0	432.10	434.47	434.31	2.37	2.21
251.0	431.87	434.43	434.28	2.56	2.41
250.0	431.64	434.39	434.24	2.74	2.60
249.0	431.42	434.35	434.21	2.93	2.79
248.0	431.19	434.31	434.17	3.12	2.98
247.0	430.96	434.27	434.14	3.31	3.18
246.0	430.73	434.23	434.10	3.50	3.37
245.0	430.50	434.19	434.06	3.69	3.56
244.0	430.27	434.15	434.03	3.88	3.76
243.0	430.04	434.11	433.99	4.07	3.95
242.0	429.81	434.07	433.96	4.26	4.14
241.5	429.70	434.05	433.94	4.35	4.24

ST.LOUIS

Gage Records 20th March 2024
LD25 (U) gage @ 0930AM = 27.05ft; @ 1730PM = 26.94ft
Mosier gage @ 0930AM =34.80ft; @1730PM = 34.61ft

DATES OF SURVEY: MARCH 20TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 053

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
265.0	434.00	435.33	435.23	1.33	1.23
264.0	434.00	435.22	435.10	1.22	1.10
263.0	434.00	435.10	434.97	1.10	0.97
262.0	434.00	434.99	434.83	0.99	0.83
261.0	434.00	434.88	434.70	0.88	0.70
260.3	434.00	434.80	434.61	0.80	0.61

ST.LOUIS

Gage Records 20th March 2024
Mosier gage @ 0930AM = 34.80ft; @1730PM = 34.61ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

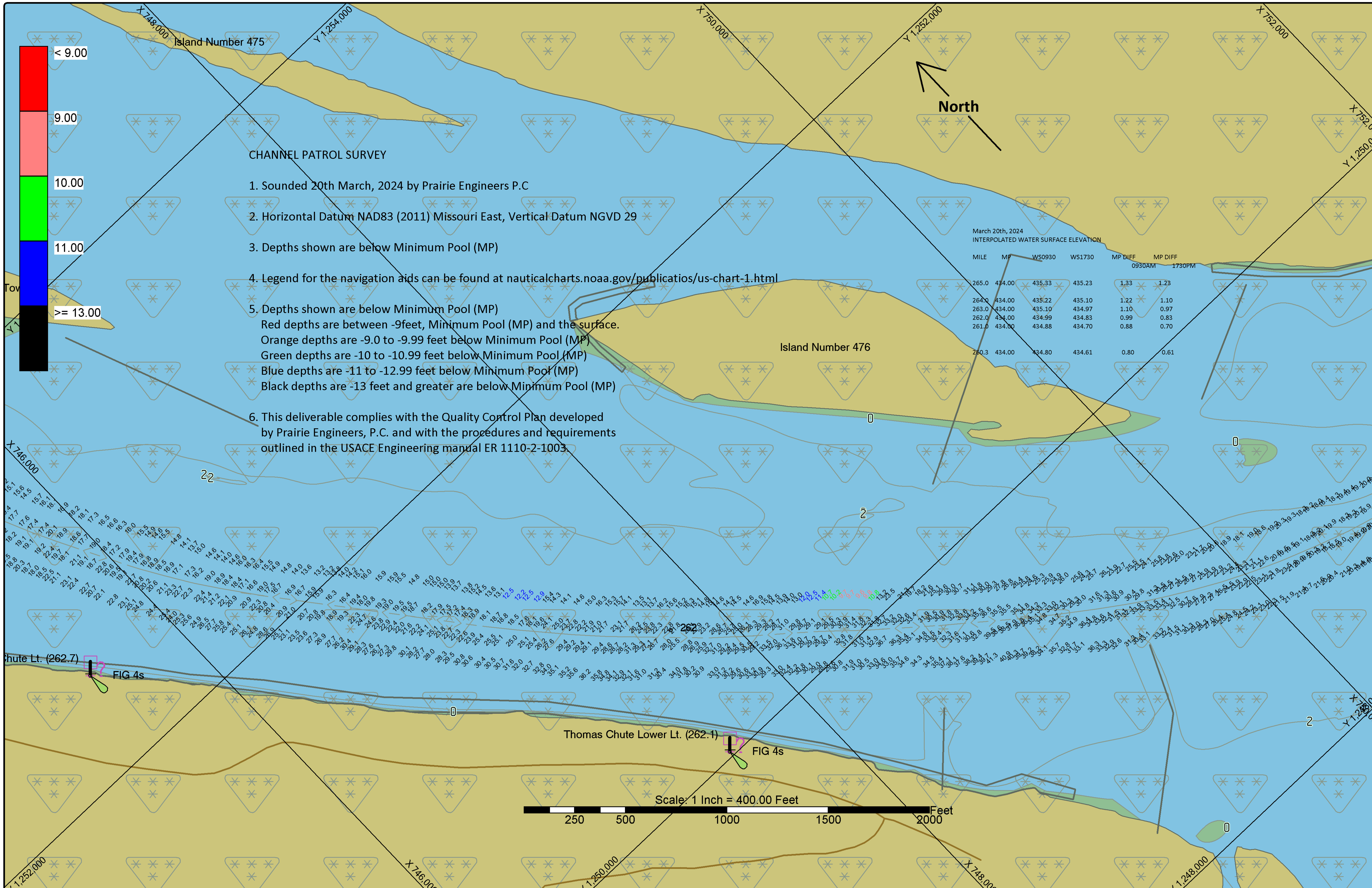
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 054



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
265.0	434.00	435.33	435.23	1.33	1.23
264.0	434.00	435.22	435.10	1.22	1.10
263.0	434.00	435.10	434.97	1.10	0.97
262.0	434.00	434.99	434.83	0.99	0.83
261.0	434.00	434.88	434.70	0.88	0.70
260.3	434.00	434.80	434.61	0.80	0.61

ST.LOUIS

Gage Records 20th March 2024
Mosier gage @ 0930AM = 34.80ft; @1730PM = 34.61ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

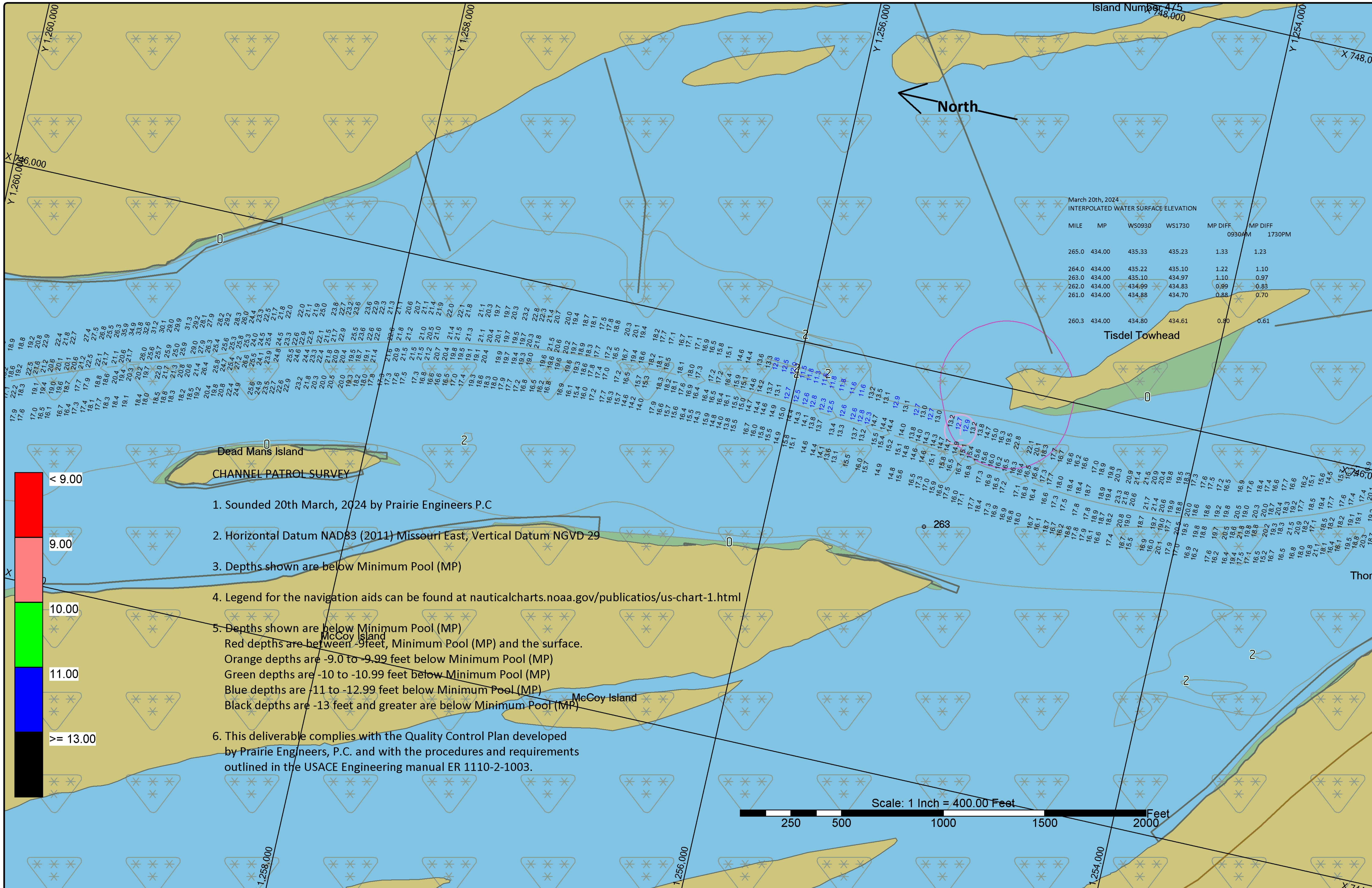
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 055



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
265.0	434.00	435.33	435.23	1.33	1.23
264.0	434.00	435.22	435.10	1.22	1.10
263.0	434.00	435.10	434.97	1.10	0.97
262.0	434.00	434.99	434.83	0.99	0.83
261.0	434.00	434.88	434.70	0.88	0.70
260.3	434.00	434.80	434.61	0.80	0.61

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

ST.LOUIS

Gage Records 20th March 2024
Mosier gage @ 0930AM = 34.80ft; @1730PM = 34.61ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

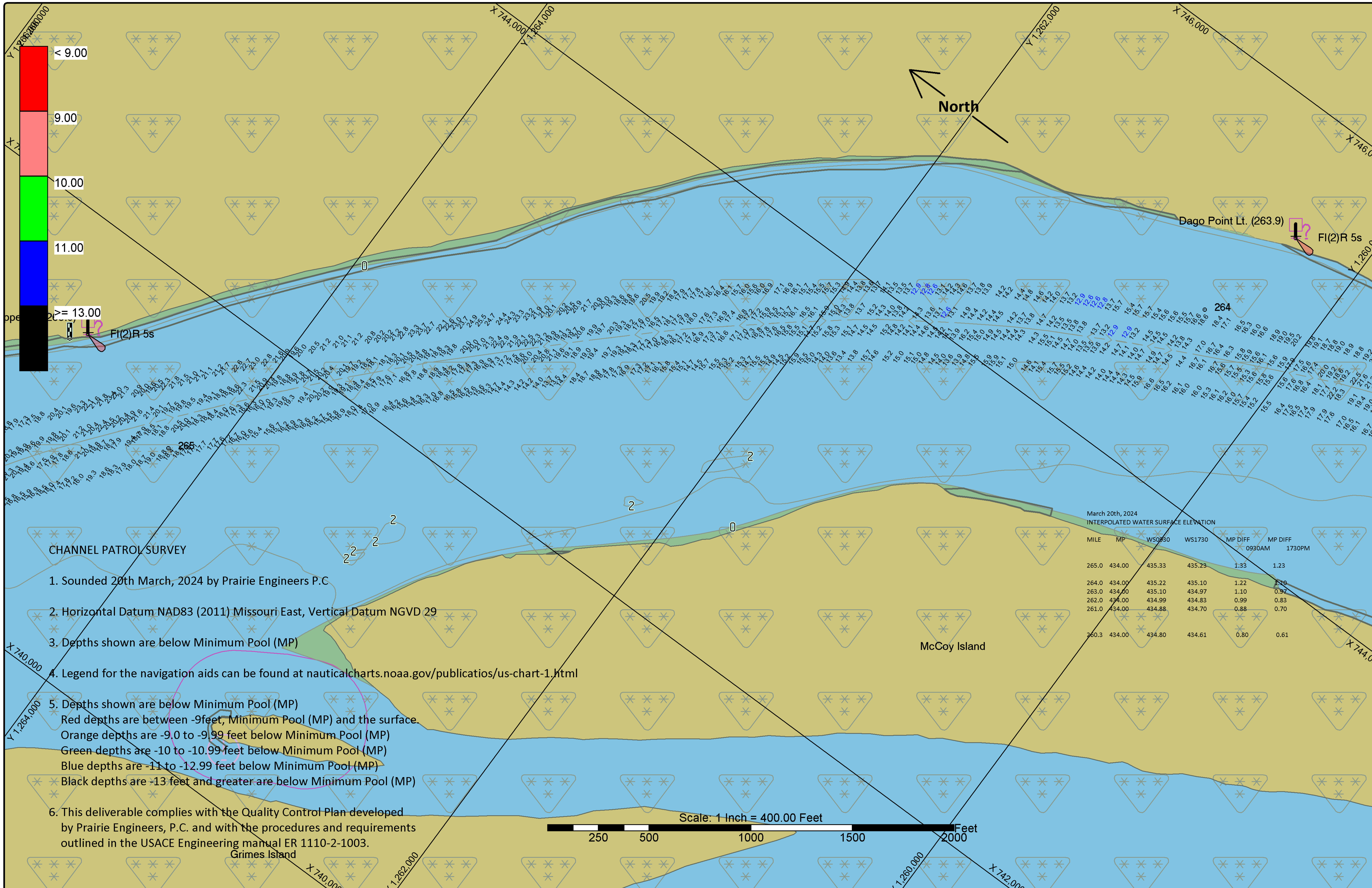
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 056



MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
265.0	434.00	435.33	435.23	1.33	1.23
264.0	434.00	435.22	435.10	1.22	1.10
263.0	434.00	435.10	434.97	1.10	0.97
262.0	434.00	434.99	434.83	0.99	0.83
261.0	434.00	434.88	434.70	0.88	0.70
260.3	434.00	434.80	434.61	0.80	0.61

ST.LOUIS

Gage Records 20th March 2024
Mosier gage @ 0930AM = 34.80ft; @1730PM = 34.61ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

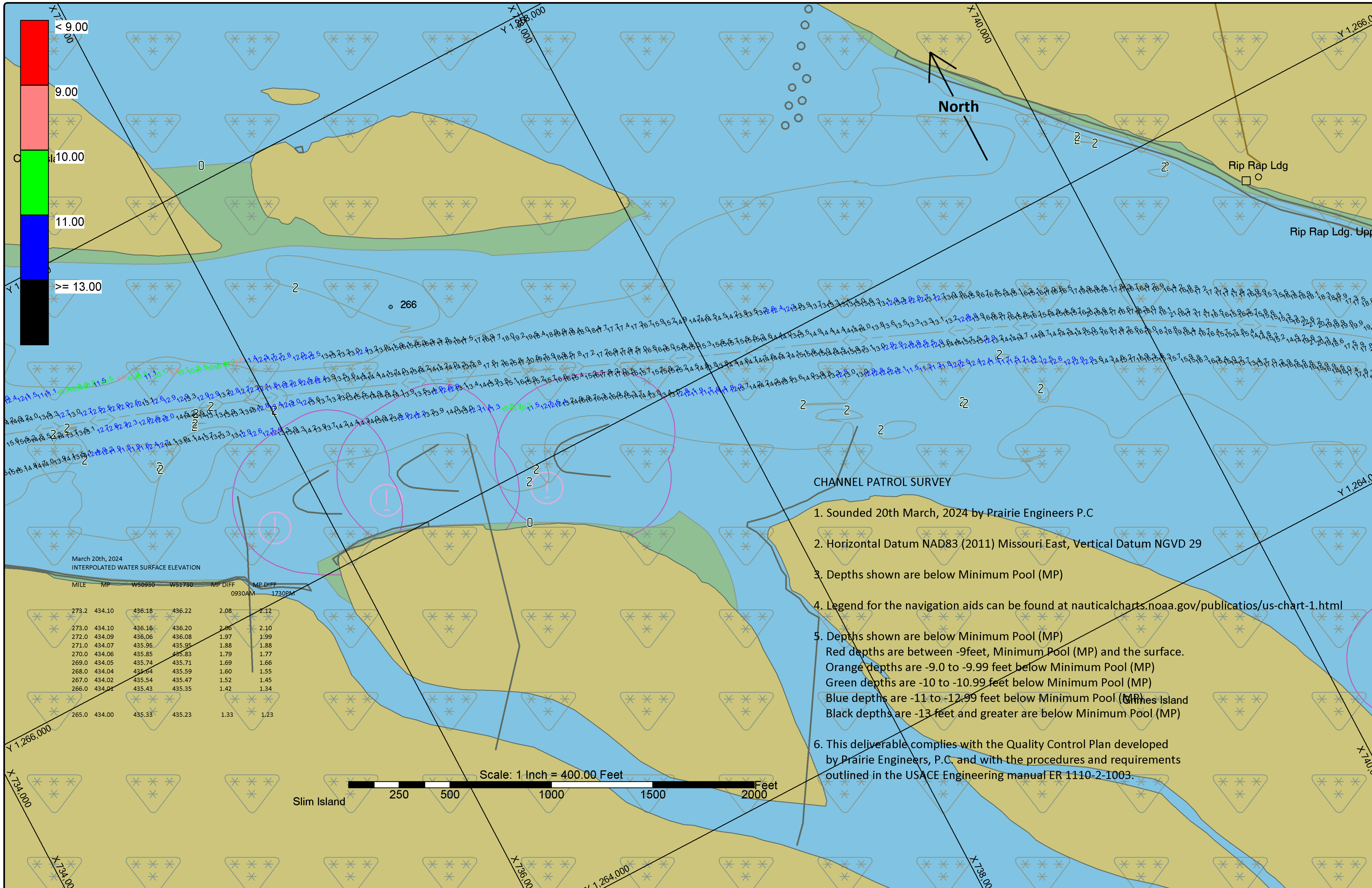
Approved: Abednego Nkem — FIELD CARTOGRAPHER
Approved: Tom Frerichs — CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer — ASST. CHIEF OF SURVEY
Approved: Tristan Harper — CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 057



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
273.2	434.10	436.18	436.22	2.08	2.12
273.0	434.10	436.16	436.20	2.06	2.10
272.0	434.09	436.06	436.08	1.97	1.99
271.0	434.07	435.95	435.95	1.88	1.88
270.0	434.06	435.85	435.83	1.79	1.77
269.0	434.05	435.74	435.71	1.69	1.66
268.0	434.04	435.64	435.59	1.60	1.55
267.0	434.02	435.54	435.47	1.52	1.45
266.0	434.01	435.43	435.35	1.42	1.34
265.0	434.00	435.33	435.23	1.33	1.23

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

ST.LOUIS

Gage Records 20th March 2024
LD24 (L) gage @ 0930AM = 14.37ft; @1730PM = 14.41ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

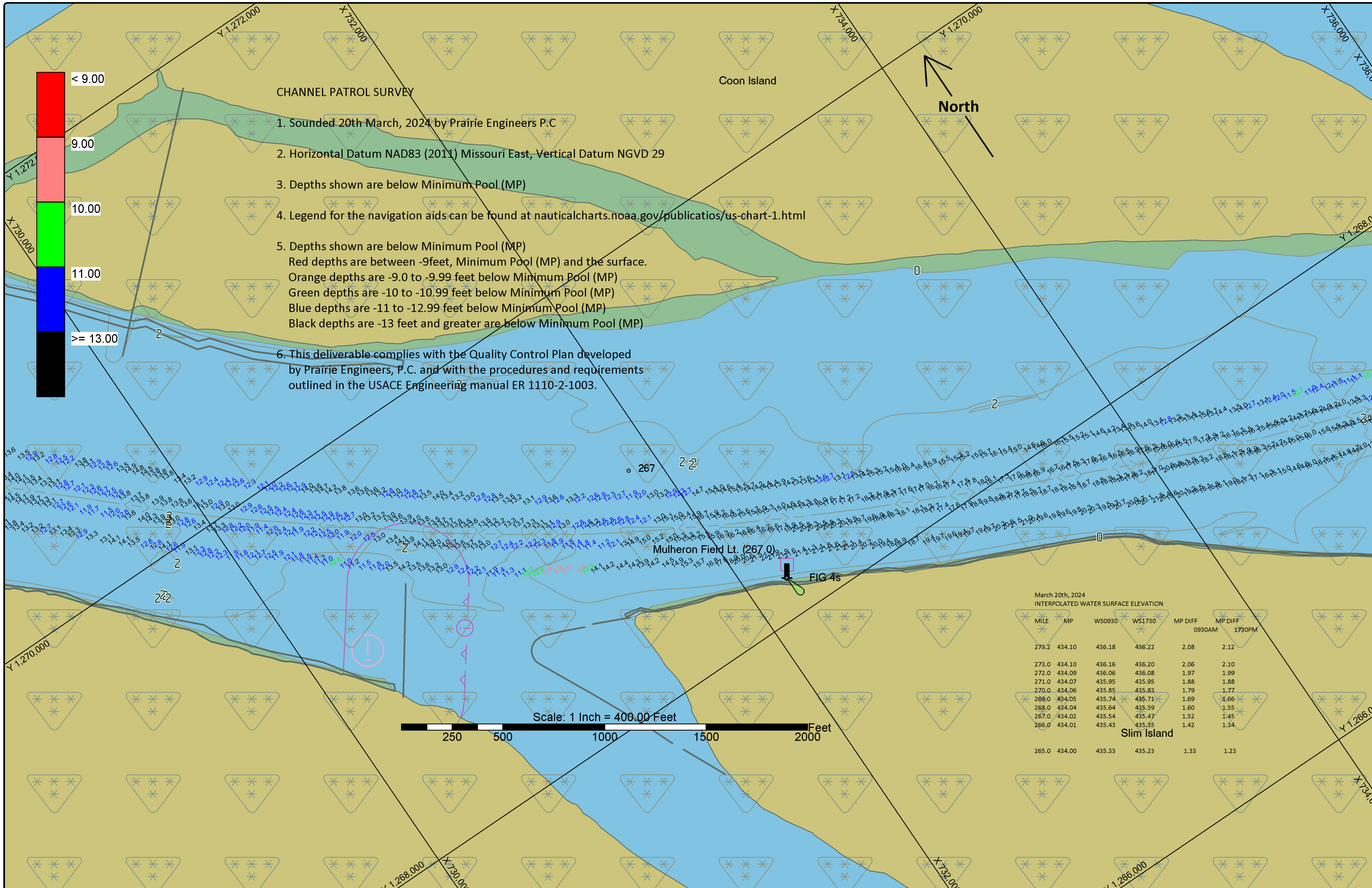
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 058



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
273.2	434.10	436.18	436.22	2.08	2.12
273.0	434.10	436.16	436.20	2.06	2.10
272.0	434.09	436.06	436.08	1.97	1.99
271.0	434.07	435.95	435.95	1.88	1.88
270.0	434.06	435.85	435.83	1.79	1.77
269.0	434.05	435.74	435.71	1.69	1.66
268.0	434.04	435.64	435.59	1.60	1.55
267.0	434.02	435.54	435.47	1.52	1.45
266.0	434.01	435.43	435.35	1.42	1.34
265.0	434.00	435.33	435.23	1.33	1.23

ST.LOUIS

Gage Records 20th March 2024
LD24 (L) gage @ 0930AM = 14.37ft; @1730PM = 14.41ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

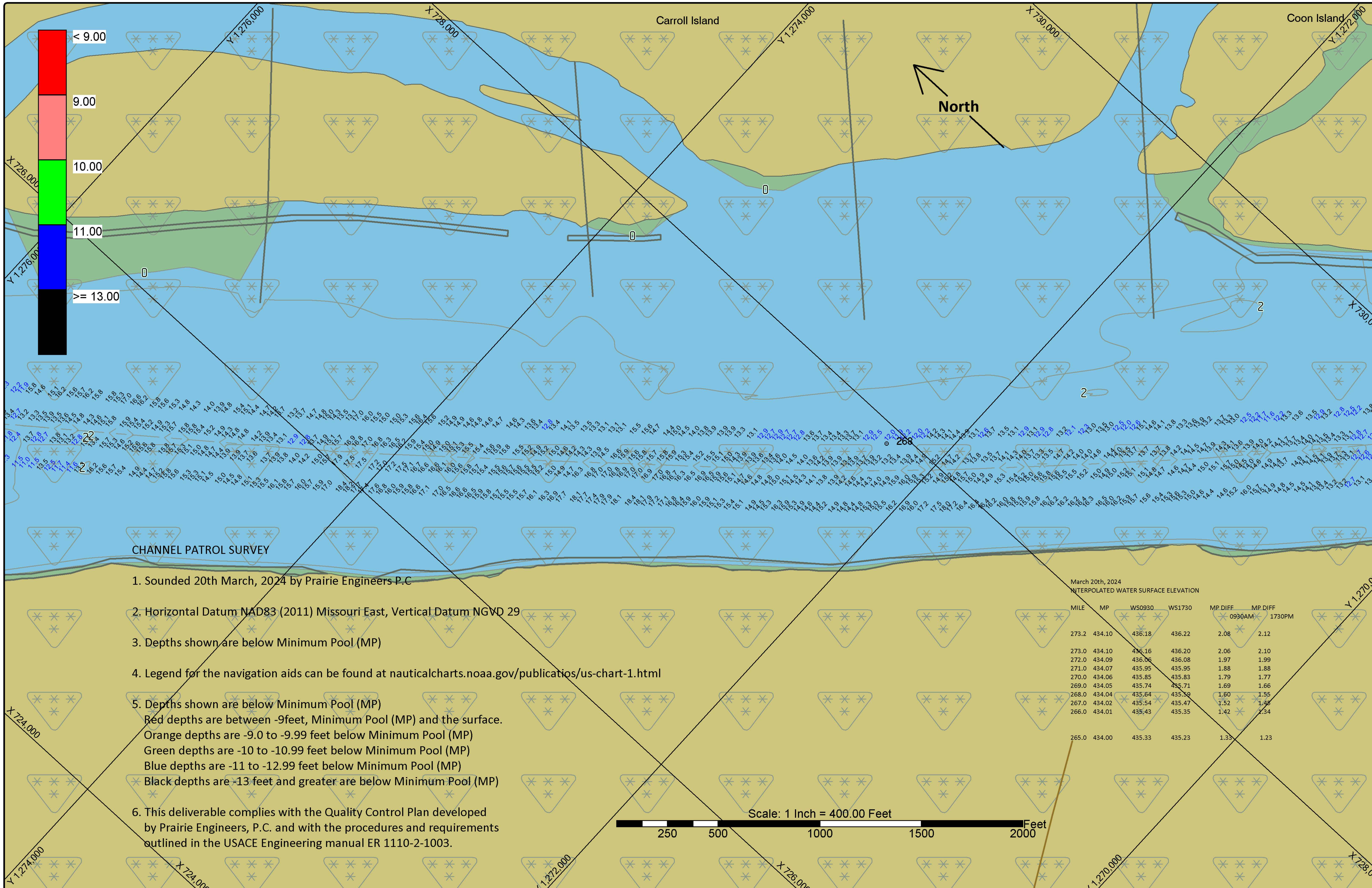
Approved: Abednego Nkem, FIELD CARTOGRAPHER
Approved: Tom Frerichs, CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer, ASST. CHIEF OF SURVEY
Approved: Tristan Harper, CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 059



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
273.2	434.10	436.18	436.22	2.08	2.12
273.0	434.10	436.16	436.20	2.06	2.10
272.0	434.09	436.06	436.08	1.97	1.99
271.0	434.07	435.95	435.95	1.88	1.88
270.0	434.06	435.85	435.83	1.79	1.77
269.0	434.05	435.74	435.71	1.69	1.66
268.0	434.04	435.64	435.59	1.60	1.55
267.0	434.02	435.54	435.47	1.52	1.45
266.0	434.01	435.43	435.35	1.42	1.34
265.0	434.00	435.33	435.23	1.33	1.23

ST.LOUIS

Gage Records 20th March 2024
LD24 (L) gage @ 0930AM = 14.37ft; @1730PM = 14.41ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

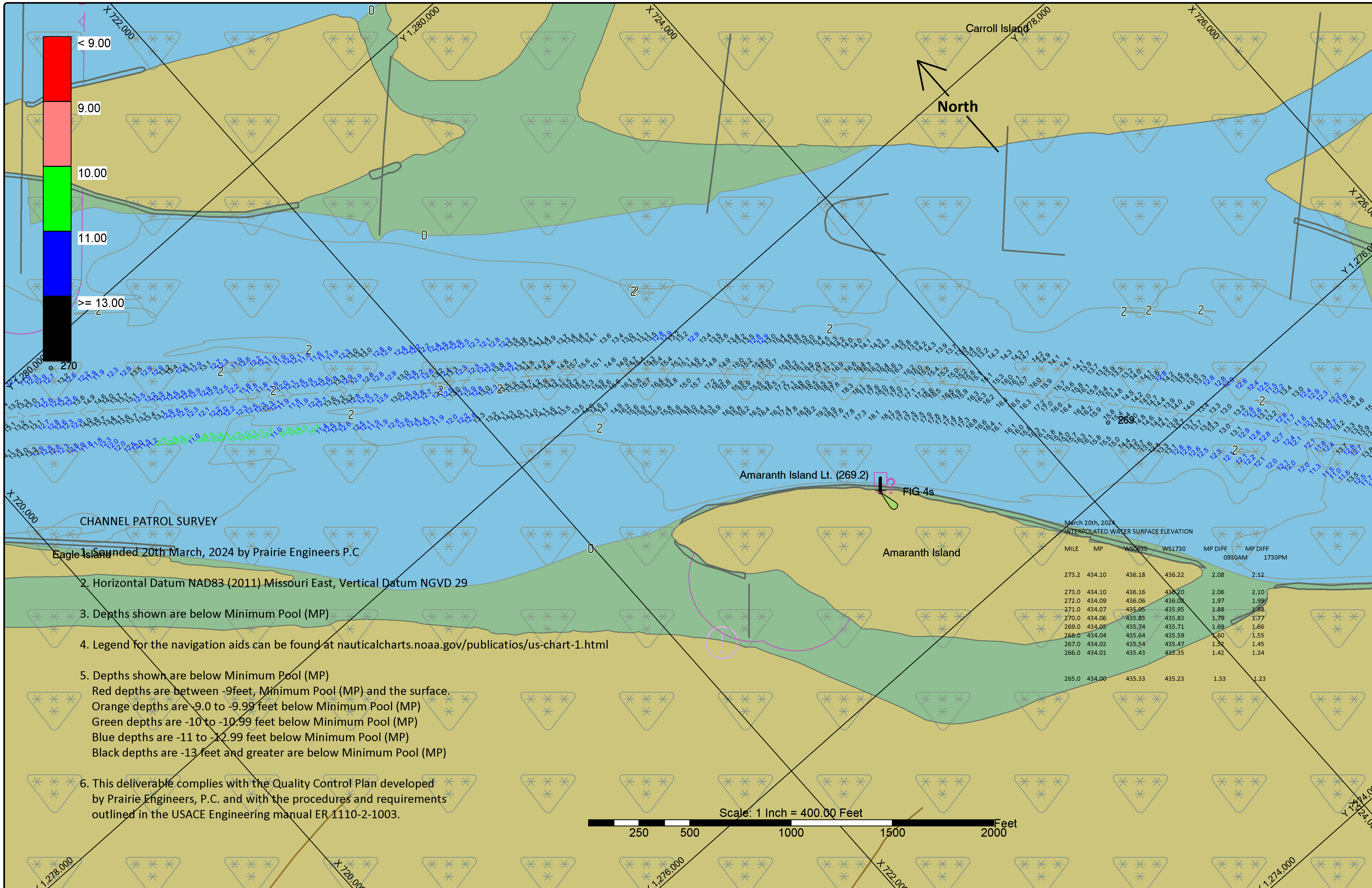
Approved: Abednego Nkem FIELD CARTOGRAPHER
Approved: Tom Frerichs CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer ASST. CHIEF OF SURVEY
Approved: Tristan Harper CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 060



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)

6. 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.

March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 0930AM	MP DIFF 1730PM
273.2	434.10	436.18	436.22	2.08	2.12
273.0	434.10	436.16	436.20	2.06	2.10
272.0	434.09	436.06	436.08	1.97	1.99
271.0	434.07	435.95	435.95	1.88	1.88
270.0	434.06	435.85	435.83	1.79	1.77
269.0	434.05	435.74	435.71	1.69	1.66
268.0	434.04	435.64	435.59	1.60	1.55
267.0	434.02	435.54	435.47	1.52	1.45
266.0	434.01	435.43	435.35	1.42	1.34
265.0	434.00	435.33	435.23	1.33	1.23

ST.LOUIS

Gage Records 20th March 2024
LD24 (L) gage @ 0930AM = 14.37ft; @1730PM = 14.41ft
Riprap gage @ 0930AM = 9.30ft; @1730PM = 9.20ft

DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

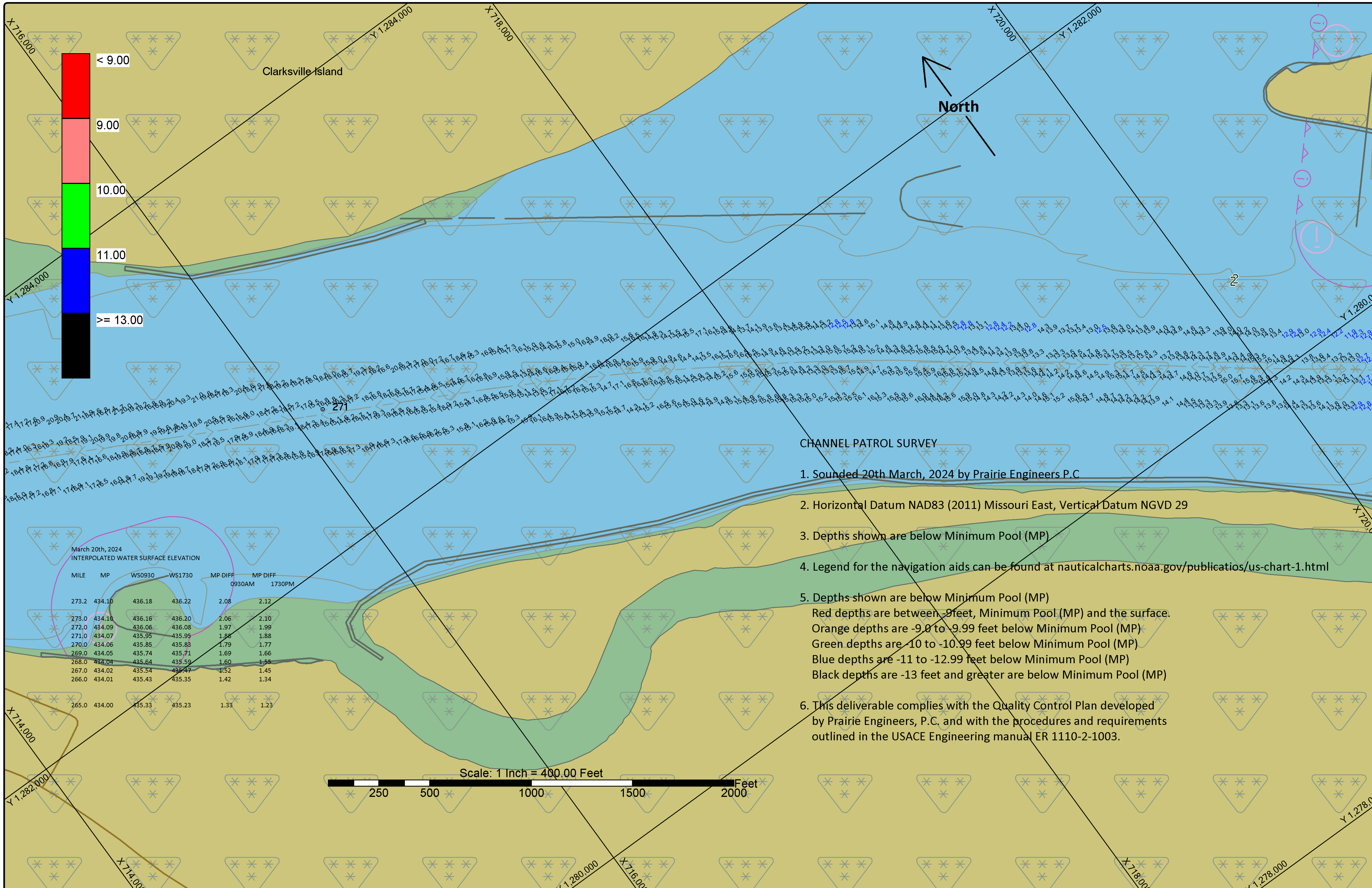
Approved: Abednego Nkem, FIELD CARTOGRAPHER
Approved: Tom Frerichs, CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer, ASST. CHIEF OF SURVEY
Approved: Tristan Harper, CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 061



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

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ST.LOUIS

Gage Records 20th March 2024
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DATES OF SURVEY: MARCH 19TH 2024

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ASST. CHIEF OF SURVEY
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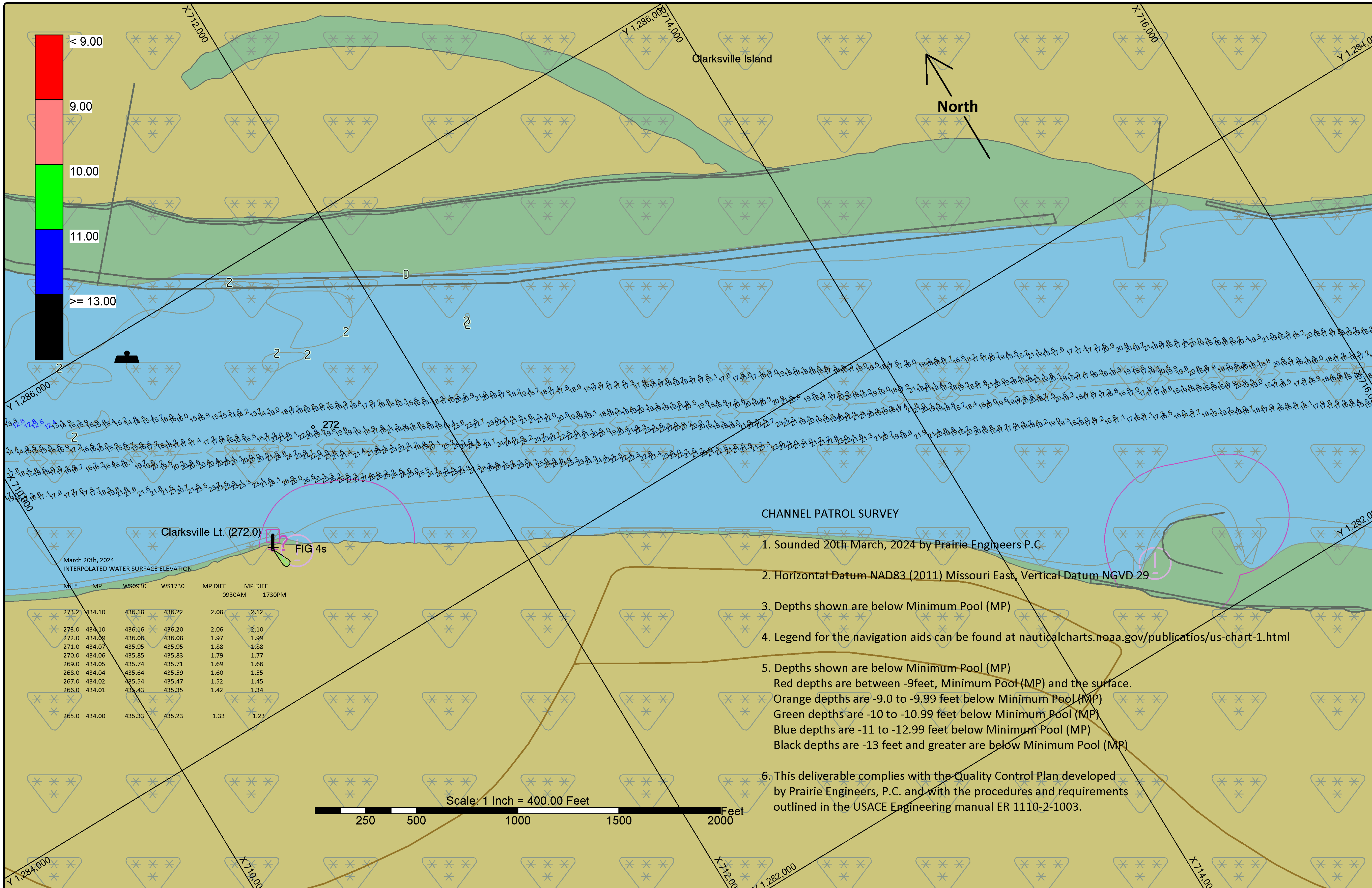
CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 062



March 20th, 2024
INTERPOLATED WATER SURFACE ELEVATION

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266.0	434.01	435.43	435.35	1.42	1.34
265.0	434.00	435.33	435.23	1.33	1.23

CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. 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.

ST.LOUIS

Gage Records 20th March 2024
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DATES OF SURVEY: MARCH 19TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

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FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
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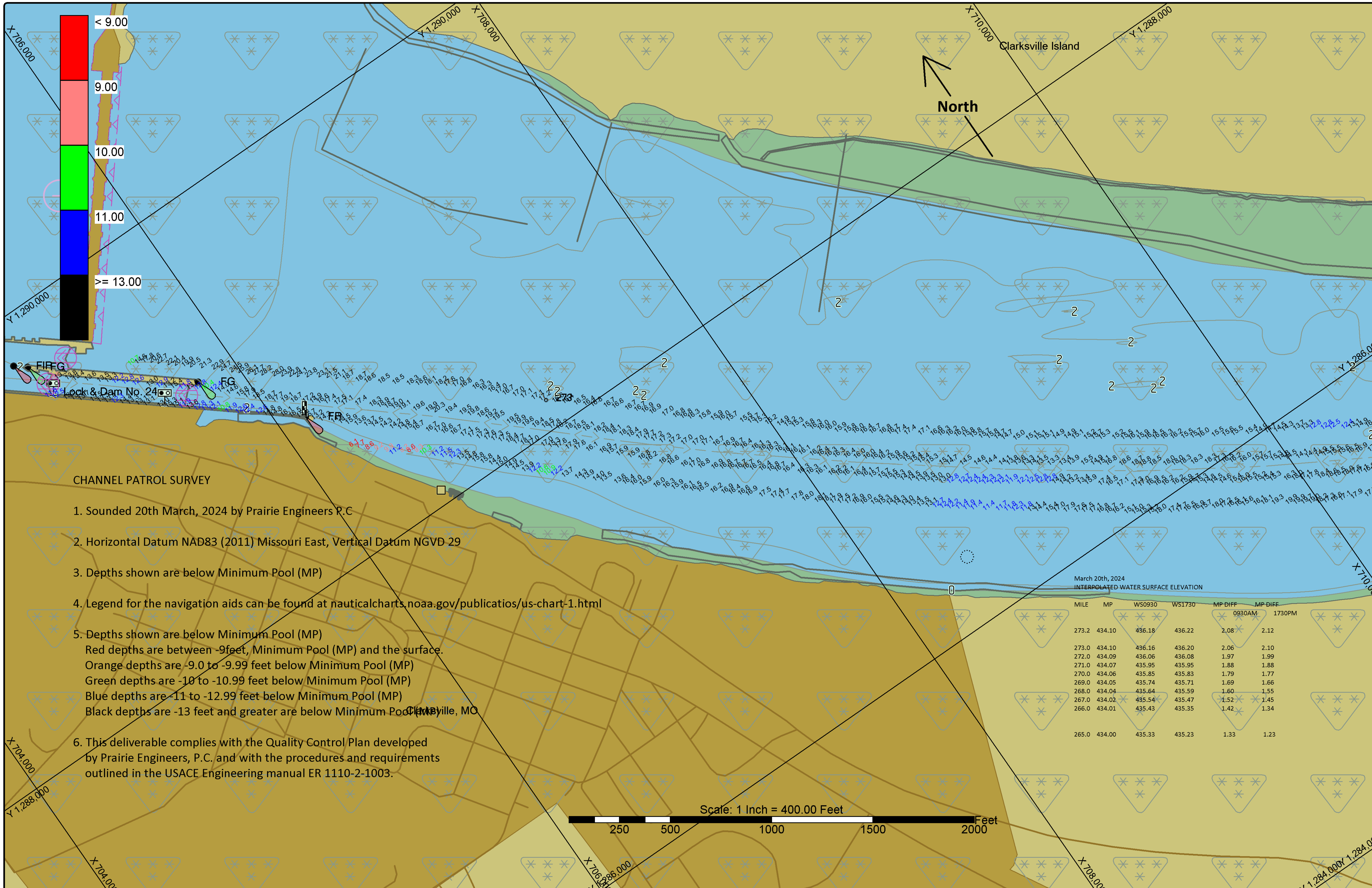
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 063



CHANNEL PATROL SURVEY

1. Sounded 20th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

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March 20th, 2024
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ST.LOUIS

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SHEET 064