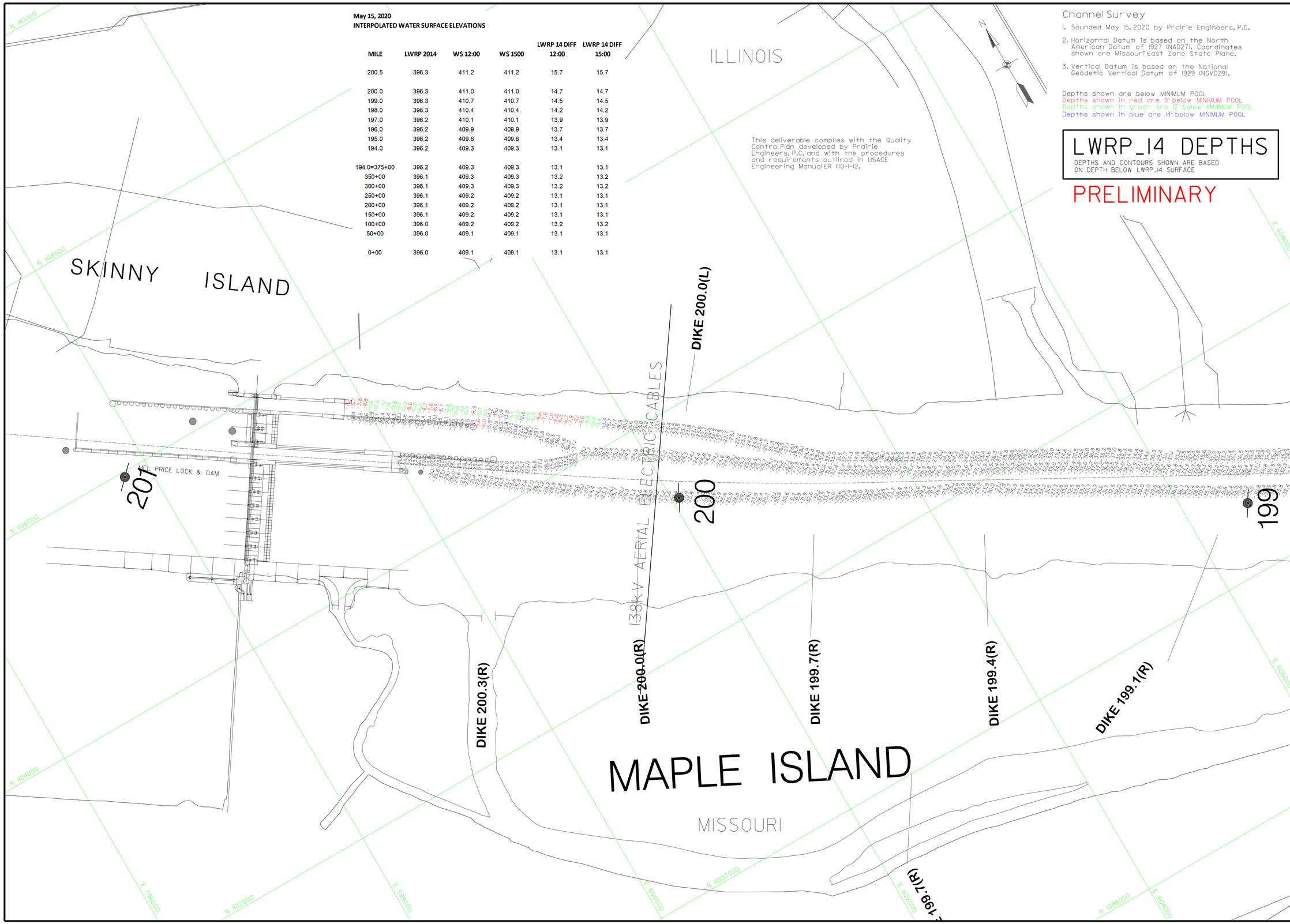
May 15, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	LWRP 2014	WS 12:00	WS 1500	LWRP 14 DIFF 12:00	LWRP 14 DIFF 15:00
200.5	396.3	411.2	411.2	15.7	15.7
200.0	396.3	411.0	411.0	14.7	14.7
199.0	396.3	410.7	410.7	14.5	14.5
198.0	396.3	410.4	410.4	14.2	14.2
197.0	396.2	410.1	410.1	13.9	13.9
196.0	396.2	409.9	409.9	13.7	13.7
195.0	396.2	409.6	409.6	13.4	13.4
194.0	396.2	409.3	409.3	13.1	13.1
194.0=375+00	396.2	409.3	409.3	13.1	13.1
350+00	396.1	409.3	409.3	13.2	13.2
300+00	396.1	409.3	409.3	13.2	13.2
250+00	396.1	409.2	409.2	13.1	13.1
200+00	396.1	409.2	409.2	13.1	13.1
150+00	396.1	409.2	409.2	13.1	13.1
100+00	396.0	409.2	409.2	13.2	13.2
50+00	396.0	409.1	409.1	13.1	13.1
0+00	396.0	409.1	409.1	13.1	13.1



This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

Channel Survey

1. Sounded May 15, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1927 (NAD27). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

LWRP_14 DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW LWRP_14 SURFACE

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

ZERO N.G.V.D.	WATER SURFACE	MEL PRICE (L)	L&D 27 (U)
MILE		395.5	350.0
		200.5	0+00
LWRP_14		396.3	396.0
	15 MAY 2020	414.2 (12:00)	409.1 (12:00)
		414.2 (15:00)	409.1 (15:00)

Survey Dates: May 15, 2020
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 200_190_0520_lwrp14_ant0.dgn
Plot date: May 15, 2020
Plot scale: 1:400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

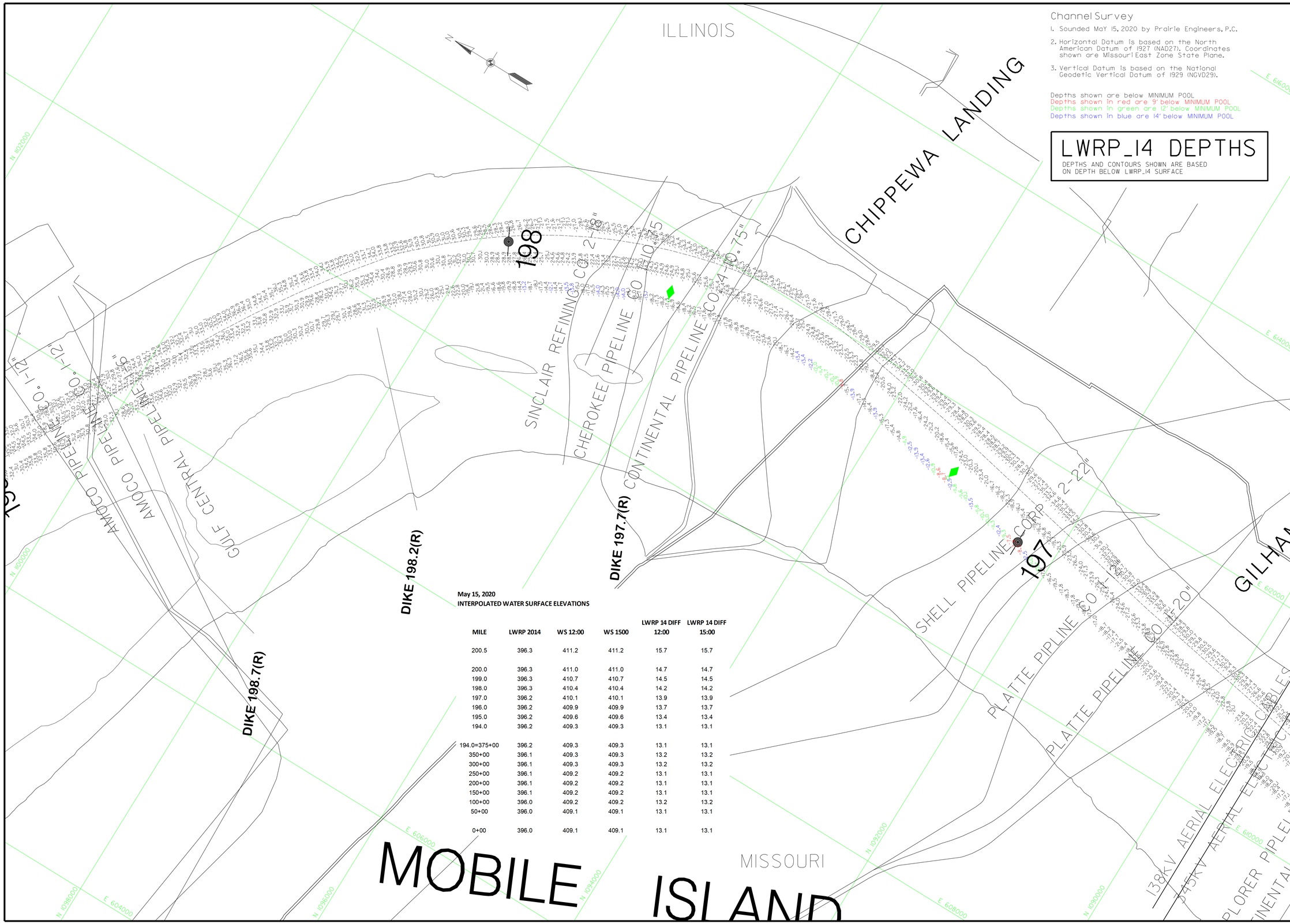
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND MAY NOT BE CORRECT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 200.5 - 190.0

PLATE NUMBER
01



Channel Survey

1. Sounded MaY 15, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1927 (NAD27). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

LWRP_14 DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW LWRP_14 SURFACE

May 15, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	LWRP 2014	WS 12:00	WS 1500	LWRP 14 DIFF 12:00	LWRP 14 DIFF 15:00
200.5	396.3	411.2	411.2	15.7	15.7
200.0	396.3	411.0	411.0	14.7	14.7
199.0	396.3	410.7	410.7	14.5	14.5
198.0	396.3	410.4	410.4	14.2	14.2
197.0	396.2	410.1	410.1	13.9	13.9
196.0	396.2	409.9	409.9	13.7	13.7
195.0	396.2	409.6	409.6	13.4	13.4
194.0	396.2	409.3	409.3	13.1	13.1
194.0=375+00	396.2	409.3	409.3	13.1	13.1
350+00	396.1	409.3	409.3	13.2	13.2
300+00	396.1	409.3	409.3	13.2	13.2
250+00	396.1	409.2	409.2	13.1	13.1
200+00	396.1	409.2	409.2	13.1	13.1
150+00	396.1	409.2	409.2	13.1	13.1
100+00	396.0	409.2	409.2	13.2	13.2
50+00	396.0	409.1	409.1	13.1	13.1
0+00	396.0	409.1	409.1	13.1	13.1

US Army Corps of Engineers
St. Louis District

GAGE RECORD			
	WATER SURFACE	MEL PRICE (L)	L&D 27 (U)
ZERO N.G.V.D.		395.5	350.0
MILE		200.5	0+00
LWRP_14		396.3	396.0
	15 MAY 2020	44.2 (12:00)	409.1 (12:00)
		44.2 (15:00)	409.1 (15:00)

Survey Dates May 15, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File names
200.1996520.lwrp14_cnt02.dgn
Plot date: May 2020
Plot scale: 1:400'

Surveyed by:
PRAIRIE ENGINEERS

Drawn by: CKD
BJB

Ckd by: DEF

Reviewed by:

APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
0 400
0 120

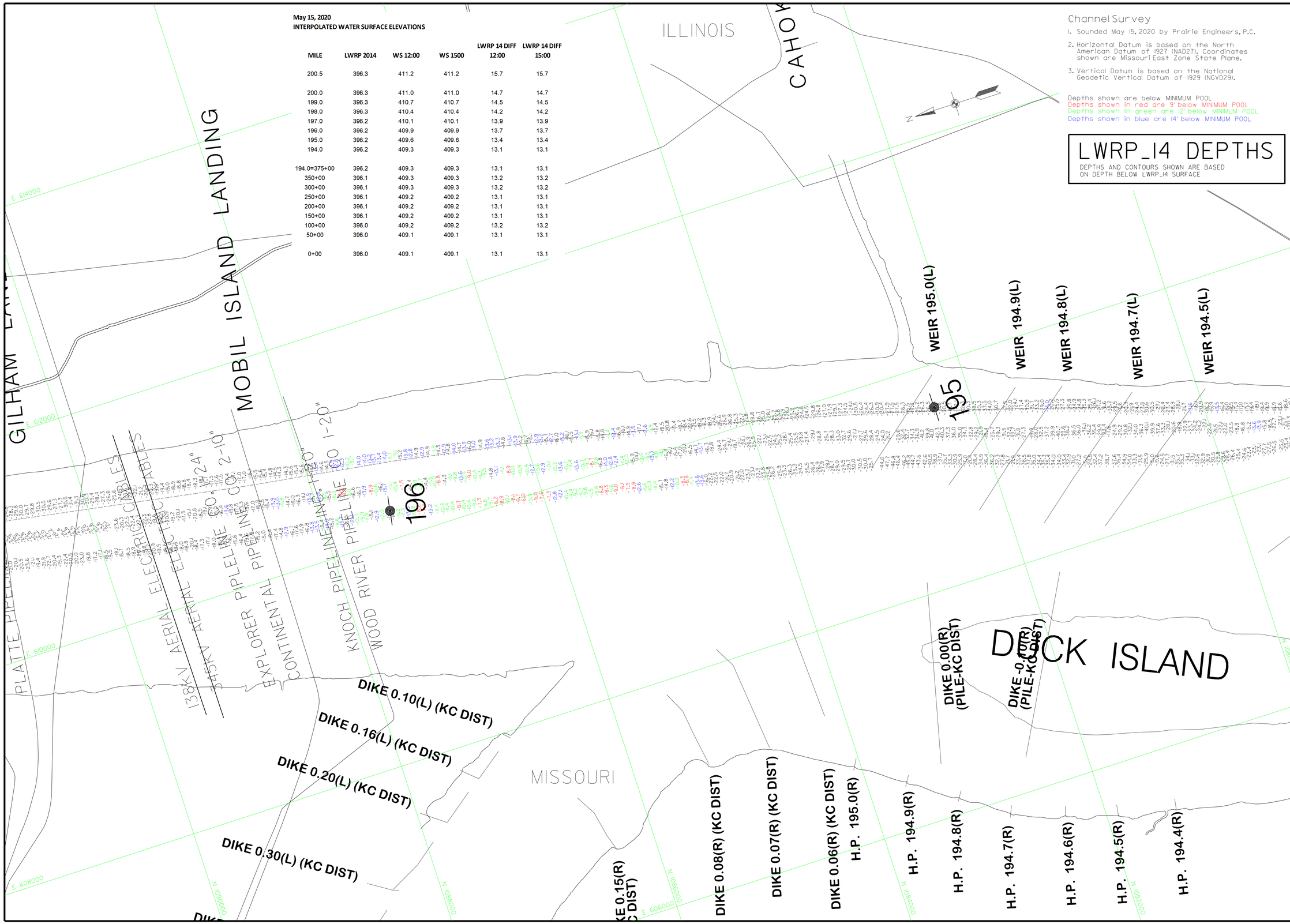
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME SHOWN AND MAY NOT REPRESENT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 200.5 - 190.0

PLATE NUMBER
02

May 15, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	LWRP 2014	WS 12:00	WS 1500	LWRP 14 DIFF 12:00	LWRP 14 DIFF 15:00
200.5	396.3	411.2	411.2	15.7	15.7
200.0	396.3	411.0	411.0	14.7	14.7
199.0	396.3	410.7	410.7	14.5	14.5
198.0	396.3	410.4	410.4	14.2	14.2
197.0	396.2	410.1	410.1	13.9	13.9
196.0	396.2	409.9	409.9	13.7	13.7
195.0	396.2	409.6	409.6	13.4	13.4
194.0	396.2	409.3	409.3	13.1	13.1
194.0=375+00	396.2	409.3	409.3	13.1	13.1
350+00	396.1	409.3	409.3	13.2	13.2
300+00	396.1	409.3	409.3	13.2	13.2
250+00	396.1	409.2	409.2	13.1	13.1
200+00	396.1	409.2	409.2	13.1	13.1
150+00	396.1	409.2	409.2	13.1	13.1
100+00	396.0	409.2	409.2	13.2	13.2
50+00	396.0	409.1	409.1	13.1	13.1
0+00	396.0	409.1	409.1	13.1	13.1



Channel Survey

1. Sounded May 15, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1927 (NAD27). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

LWRP_14 DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW LWRP_14 SURFACE

US Army Corps of Engineers
St. Louis District

GAGE RECORD

ZERO N.G.V.D.	WATER SURFACE	MEL PRICE (L)	L&D 27 (U)
MILE		395.5	350.0
LWRP_14		200.5	0+00
		396.3	396.0
	15 MAY 2020	46.2 (12:00)	409.1(12:00)
		46.2 (15:00)	409.1(15:00)

Survey Dates May 15, 2020

SUBMITTED: Chief, Engr. Data Mngt. Sect.

File names: 200_196to520_lwrp14_pnt03.dgn
Plot date: 2020
Plot scale: 1:400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED: Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 0 120 400 0 800 FEET

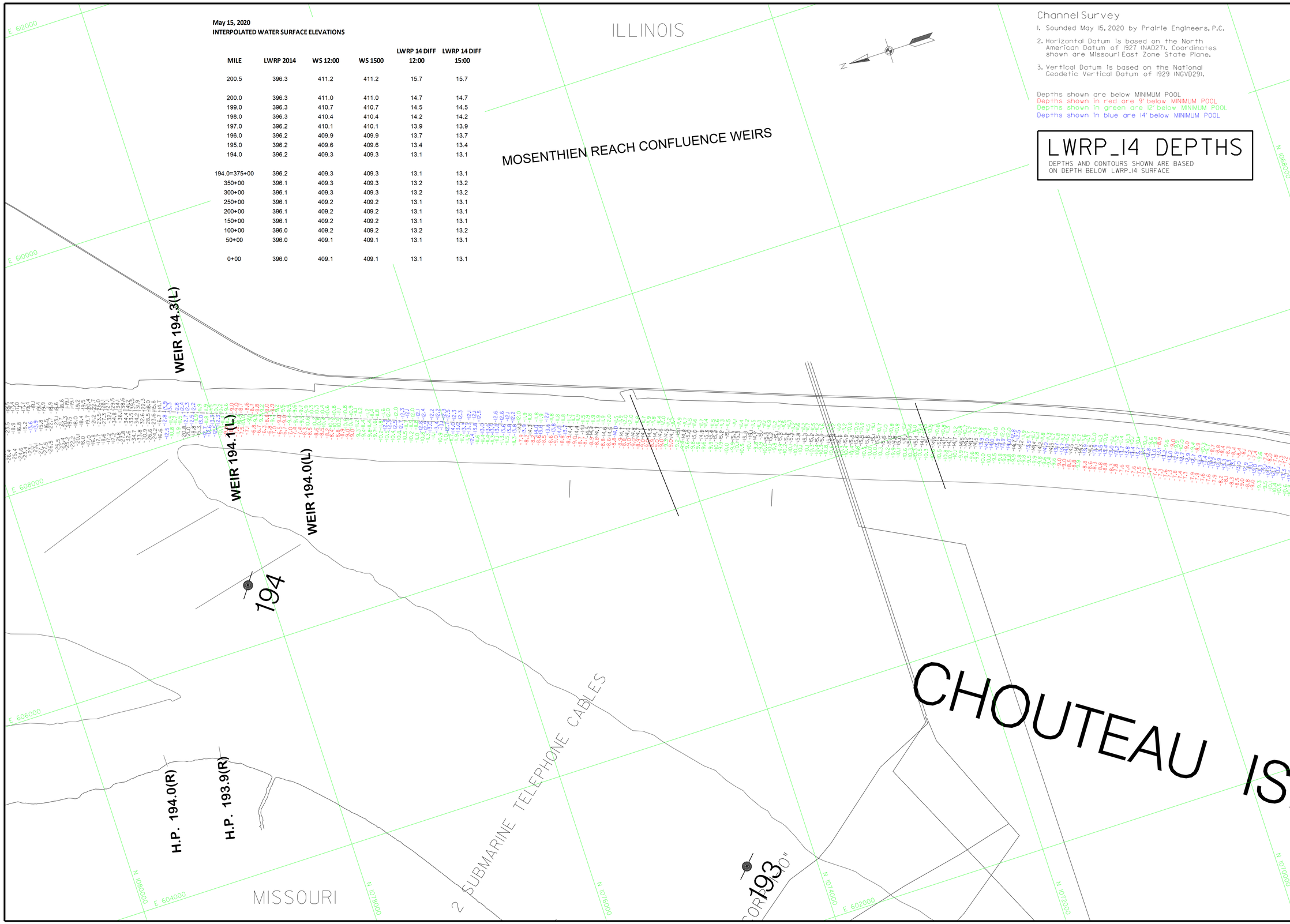
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED. IT IS PRESENTED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 500.2 - 190.0

PLATE NUMBER
03

May 15, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	LWRP 2014	WS 12:00	WS 1500	LWRP 14 DIFF 12:00	LWRP 14 DIFF 15:00
200.5	396.3	411.2	411.2	15.7	15.7
200.0	396.3	411.0	411.0	14.7	14.7
199.0	396.3	410.7	410.7	14.5	14.5
198.0	396.3	410.4	410.4	14.2	14.2
197.0	396.2	410.1	410.1	13.9	13.9
196.0	396.2	409.9	409.9	13.7	13.7
195.0	396.2	409.6	409.6	13.4	13.4
194.0	396.2	409.3	409.3	13.1	13.1
194.0=375+00	396.2	409.3	409.3	13.1	13.1
350+00	396.1	409.3	409.3	13.2	13.2
300+00	396.1	409.3	409.3	13.2	13.2
250+00	396.1	409.2	409.2	13.1	13.1
200+00	396.1	409.2	409.2	13.1	13.1
150+00	396.1	409.2	409.2	13.1	13.1
100+00	396.0	409.2	409.2	13.2	13.2
50+00	396.0	409.1	409.1	13.1	13.1
0+00	396.0	409.1	409.1	13.1	13.1



Channel Survey

1. Sounded May 15, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1927 (NAD27). Coordinates shown are MissouriEast Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

LWRP_14 DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW LWRP_14 SURFACE

US Army Corps of Engineers
St. Louis District

GAGE RECORD		
	MEL PRICE (L)	L&D 27 (U)
ZERO N.G.V.D.	395.5	350.0
MILE	200.5	0+00
LWPR_14	396.3	396.0
WATER SURFACE		
15 MAY 2020	414.2 (12:00)	409.1 (12:00)
	414.2 (15:00)	409.1 (15:00)

Survey Dates: MAY 15, 2020

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: def
Reviewed by:
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File names: 200_1906520_lwrp14_sht04.dgn
Date: May 15, 2020
Plot scale: 1"=400'
APPROVED: Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
120 0 120 400
400 0 400

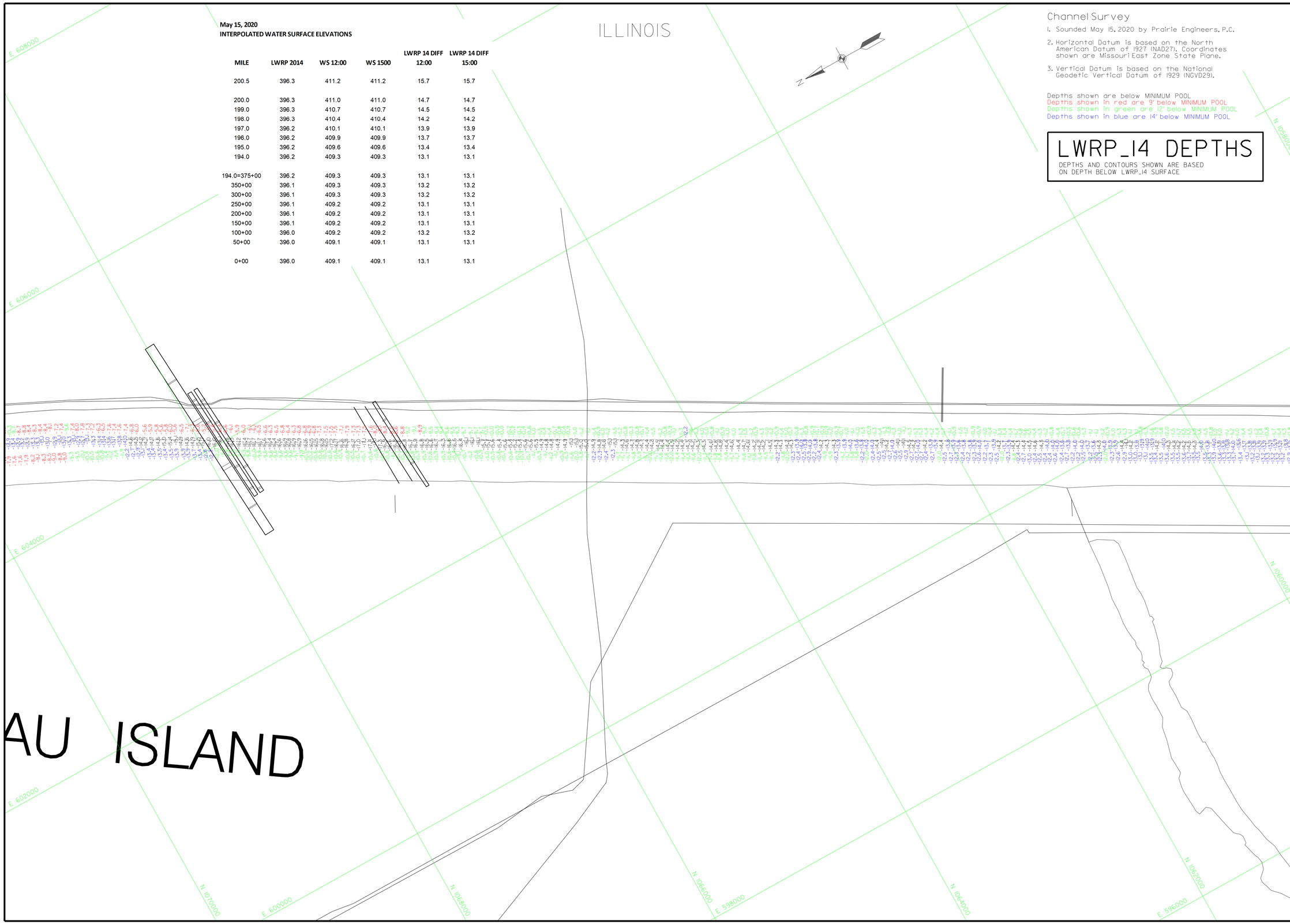
THE INFORMATION REPRESENTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME SHOWN. THE RESULTS MAY BE INTERPRETED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 200.5 - 190.0

PLATE NUMBER
04

May 15, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	LWRP 2014	WS 12:00	WS 1500	LWRP 14 DIFF 12:00	LWRP 14 DIFF 15:00
200.5	396.3	411.2	411.2	15.7	15.7
200.0	396.3	411.0	411.0	14.7	14.7
199.0	396.3	410.7	410.7	14.5	14.5
198.0	396.3	410.4	410.4	14.2	14.2
197.0	396.2	410.1	410.1	13.9	13.9
196.0	396.2	409.9	409.9	13.7	13.7
195.0	396.2	409.6	409.6	13.4	13.4
194.0	396.2	409.3	409.3	13.1	13.1
194.0=375+00	396.2	409.3	409.3	13.1	13.1
350+00	396.1	409.3	409.3	13.2	13.2
300+00	396.1	409.3	409.3	13.2	13.2
250+00	396.1	409.2	409.2	13.1	13.1
200+00	396.1	409.2	409.2	13.1	13.1
150+00	396.1	409.2	409.2	13.1	13.1
100+00	396.0	409.2	409.2	13.2	13.2
50+00	396.0	409.1	409.1	13.1	13.1
0+00	396.0	409.1	409.1	13.1	13.1



Channel Survey

1. Sounded May 15, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1927 (NAD27). Coordinates shown are MIssouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

LWRP_14 DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW LWRP_14 SURFACE

US Army Corps of Engineers
St. Louis District

GAGE RECORD

ZERO N.G.V.D.	WATER SURFACE	MEL PRICE (L)	L&D 27 (U)
MILE		395.5	350.0
		200.5	0+00
LWRP_14		396.3	396.0
	15 MAY 2020	414.2 (12:00)	409.1 (12:00)
		414.2 (15:00)	409.1 (15:00)

Survey Dates: May 15, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File names
200.1996620.lwrp14_sht05.dgn
Date: May 18, 2020
Plot scale: 1:400'

Surveyed by:
PRAIRIE ENGINEERS

Drawn by: BJB
Ckd by: DEF

Reviewed by:

APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

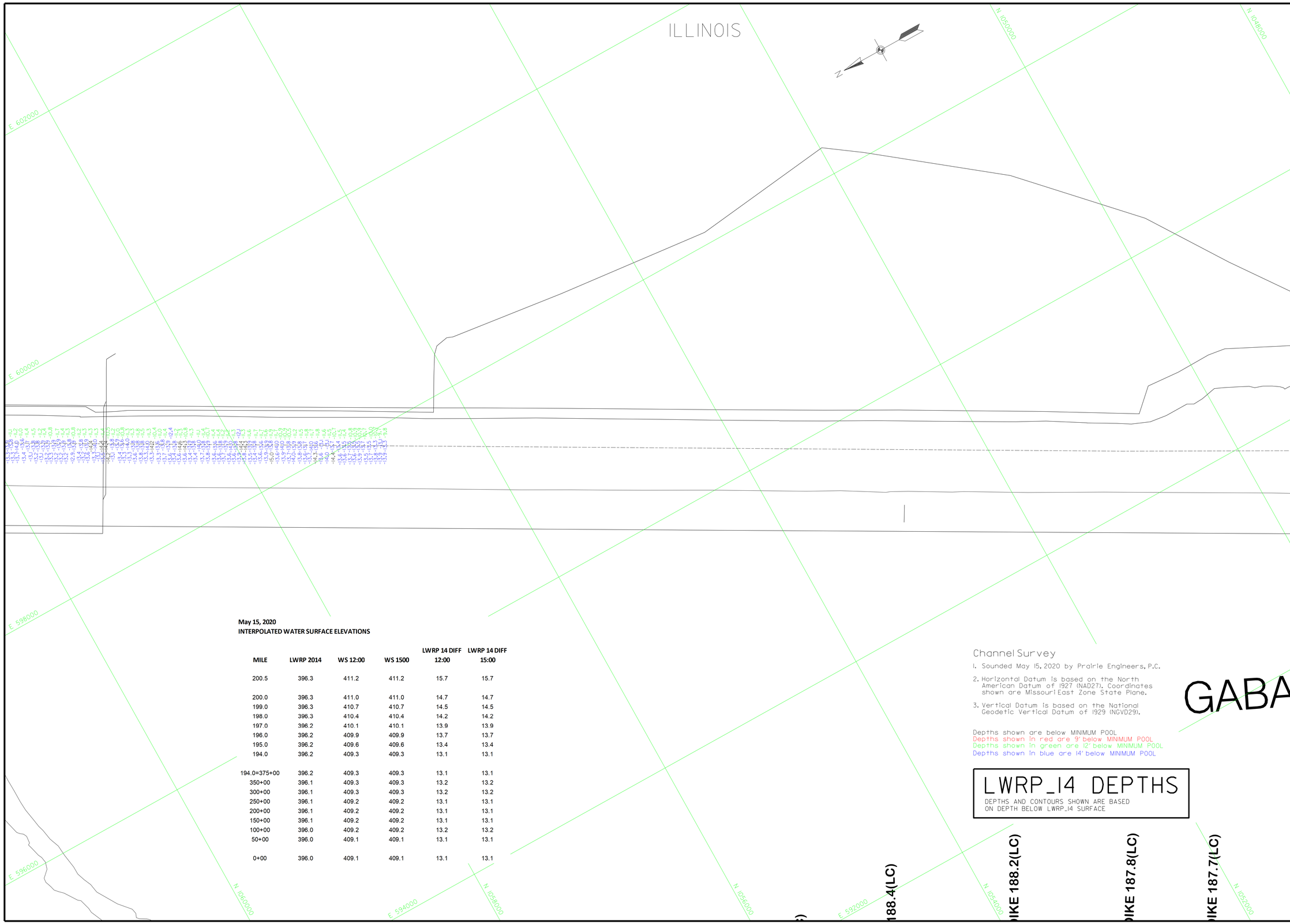
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED. THE RESULTS MAY NOT BE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 200.5 - 190.0

PLATE NUMBER
05



May 15, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	LWRP 2014	WS 12:00	WS 1500	LWRP 14 DIFF 12:00	LWRP 14 DIFF 15:00
200.5	396.3	411.2	411.2	15.7	15.7
200.0	396.3	411.0	411.0	14.7	14.7
199.0	396.3	410.7	410.7	14.5	14.5
198.0	396.3	410.4	410.4	14.2	14.2
197.0	396.2	410.1	410.1	13.9	13.9
196.0	396.2	409.9	409.9	13.7	13.7
195.0	396.2	409.6	409.6	13.4	13.4
194.0	396.2	409.3	409.3	13.1	13.1
194.0=375+00	396.2	409.3	409.3	13.1	13.1
350+00	396.1	409.3	409.3	13.2	13.2
300+00	396.1	409.3	409.3	13.2	13.2
250+00	396.1	409.2	409.2	13.1	13.1
200+00	396.1	409.2	409.2	13.1	13.1
150+00	396.1	409.2	409.2	13.1	13.1
100+00	396.0	409.2	409.2	13.2	13.2
50+00	396.0	409.1	409.1	13.1	13.1
0+00	396.0	409.1	409.1	13.1	13.1

Channel Survey

1. Sounded May 15, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1927 (NAD27). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

LWRP_14 DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW LWRP_14 SURFACE

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEL PRICE (L)	L&D 27 (U)
ZERO N.G.V.D.		395.5	350.0
MILE		200.5	0+00
LWRP_14		396.3	396.0
	15 MAY 2020	414.2 (12:00)	409.1 (12:00)
		414.2 (15:00)	409.1 (15:00)

Survey Date: May 15, 2020
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 200.1906520_lwrp14_sn+06.dgn
Plot date: July 2020
Plot scale: 1:400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120 240
800 FEET 400 0 400 800

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE SHOWN AND IS INTENDED TO REPRESENT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 200.5 - 190.0

PLATE NUMBER
06