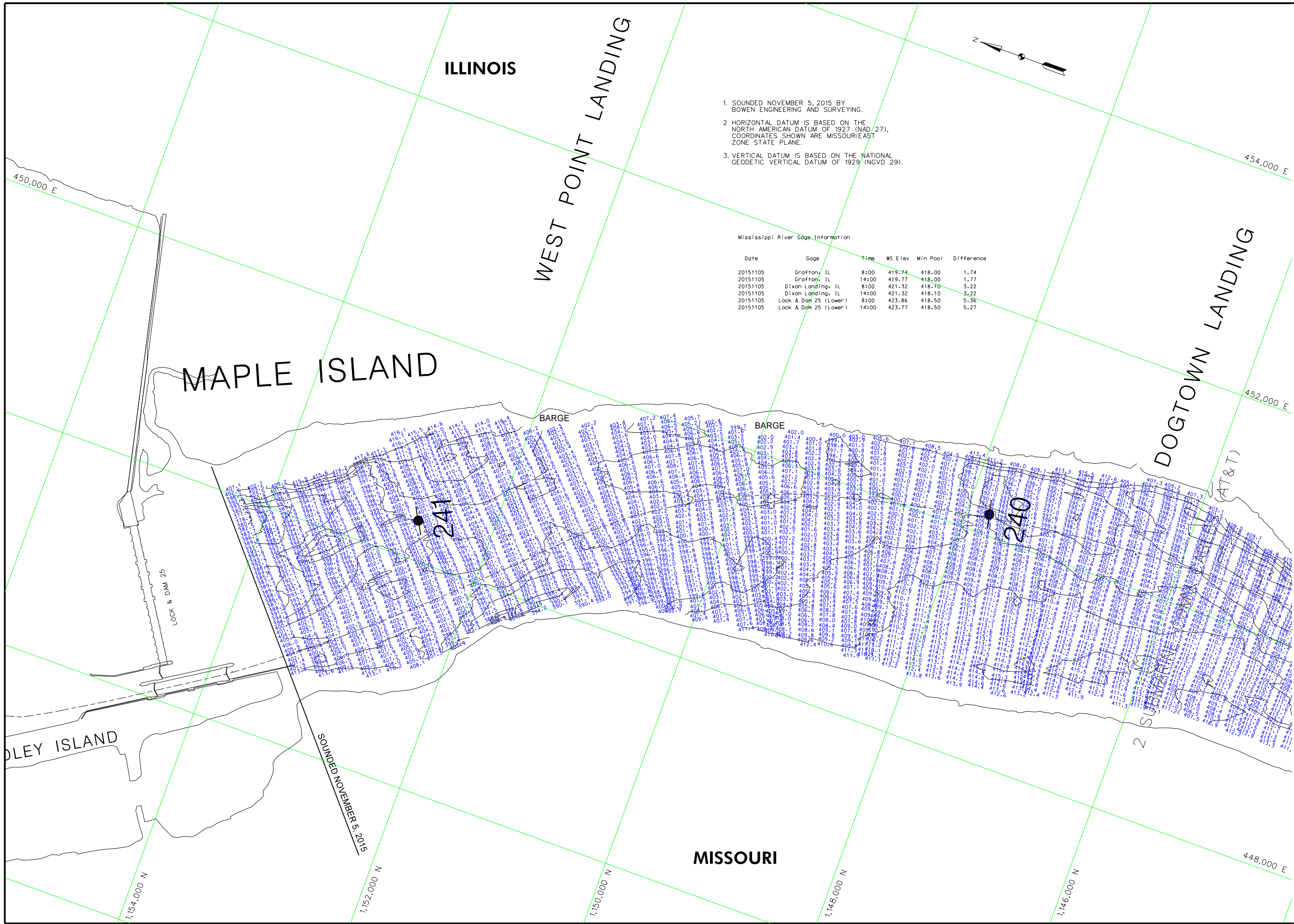




1. SOUNDED NOVEMBER 5, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151105	Grafton, IL	8:00	419.74	418.00	1.74
20151105	Grafton, IL	14:00	419.77	418.00	1.77
20151105	Dixon Landings, IL	8:00	421.32	418.10	3.22
20151105	Dixon Landings, IL	14:00	421.32	418.10	3.22
20151105	Lock & Dam 25 (Lower)	8:00	423.86	418.50	5.36
20151105	Lock & Dam 25 (Lower)	14:00	423.77	418.50	5.27

US Army Corps of Engineers
St. Louis District

GAUGE RECORD	GRAFTON, IL	DIXON LANDINGS, IL	L & D 25 (LOWER)
ALTON, IL	403.70	218.6	418.0
ZERO NGVD	403.00	218.0	417.50
MILE	418.0	418.0	418.0
L.W.R.P.	15.35(8/02) 15.91(4/00)	15.78(8/02) 15.71(4/00)	16.86(8/02) 16.71(4/00)
05 NOV 2015	X		

ELEVATIONS ARE REFERRED TO NGVD. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (LWRP) 154,000 CL 5.3.

Surveyed by: BOWEN ENGINEERING	Survey Date: NOVEMBER 5, 2015	Drawn by: X	Reviewed by: X	Checked by: X
SUBMITTED: X				APPROVED: X
File Name: BOWEN-ENGINEERING-2015-11-05				Plot Date: BOWEN-ENGINEERING-2015-11-05

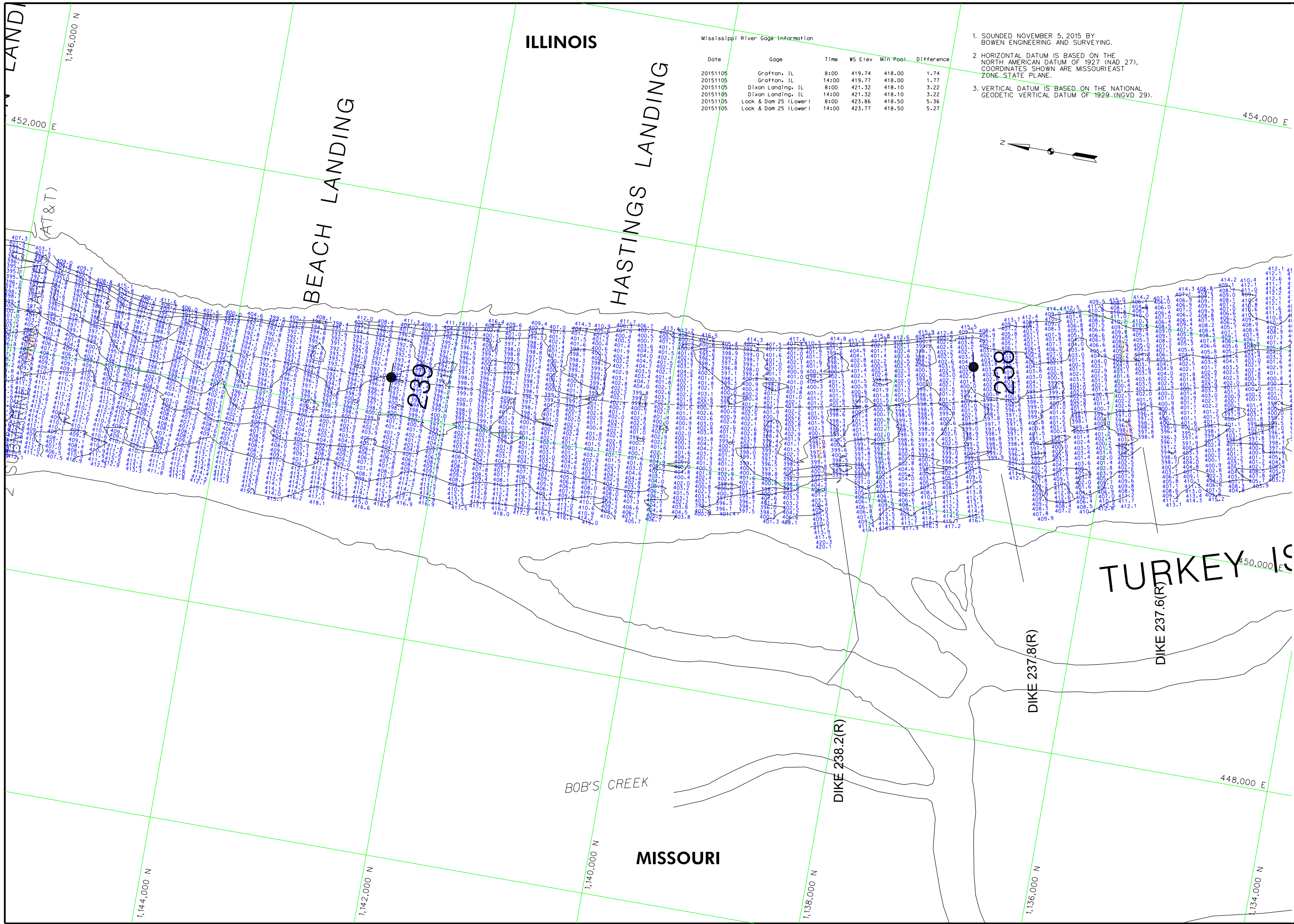
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE ST. LOUIS DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.

HYDROGRAPHIC SURVEYS

MILE: 239.6 - 241.6

PLATE NUMBER

30



Mississippi River Gage Information

Date	Gage	Time	WS Elev	Mfn Pool	Difference
20151105	Grafton, IL	8:00	419.74	418.00	1.74
20151105	Grafton, IL	14:00	419.77	418.00	1.77
20151105	Dixon Landing, IL	8:00	421.32	418.10	3.22
20151105	Dixon Landing, IL	14:00	421.32	418.10	3.22
20151105	Lock & Dam 25 (Lower)	8:00	423.86	418.50	5.36
20151105	Lock & Dam 25 (Lower)	14:00	423.77	418.50	5.27

1. SOUNDED NOVEMBER 5, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



GAGE RECORD

ALTON, IL	GRAFTON, IL	DIXON LANDING, IL	L & D 25 (LOWER)
400.00	403.70	218.6	407.60
203.0	218.6	278.3	241.2
418.0	418.0	418.1	418.1
15.35(8-02) 15.36(14-00)	15.35(8-02) 15.36(14-00)	15.35(8-02) 15.36(14-00)	15.35(8-02) 15.36(14-00)
05 NOV 2015			

ELEVATIONS ARE REFERRED TO NGVD. COORDINATES ARE BELOW 1986-37 LOW WATER REFERENCE PLANE (LWRP) 154-000 CL 5.3

Survey Date: NOVEMBER 5, 2015

Drawn by: [Signature] Reviewed by: [Signature] Ctd by: [Signature]

SUBMITTED: [Signature] APPROVED: [Signature]

Plot Date: [Signature]

File Name: [Signature]

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 BY THE DISTRICT ENGINEER AND HIS STAFF. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN AUTHORIZATION OF THE DISTRICT ENGINEER.

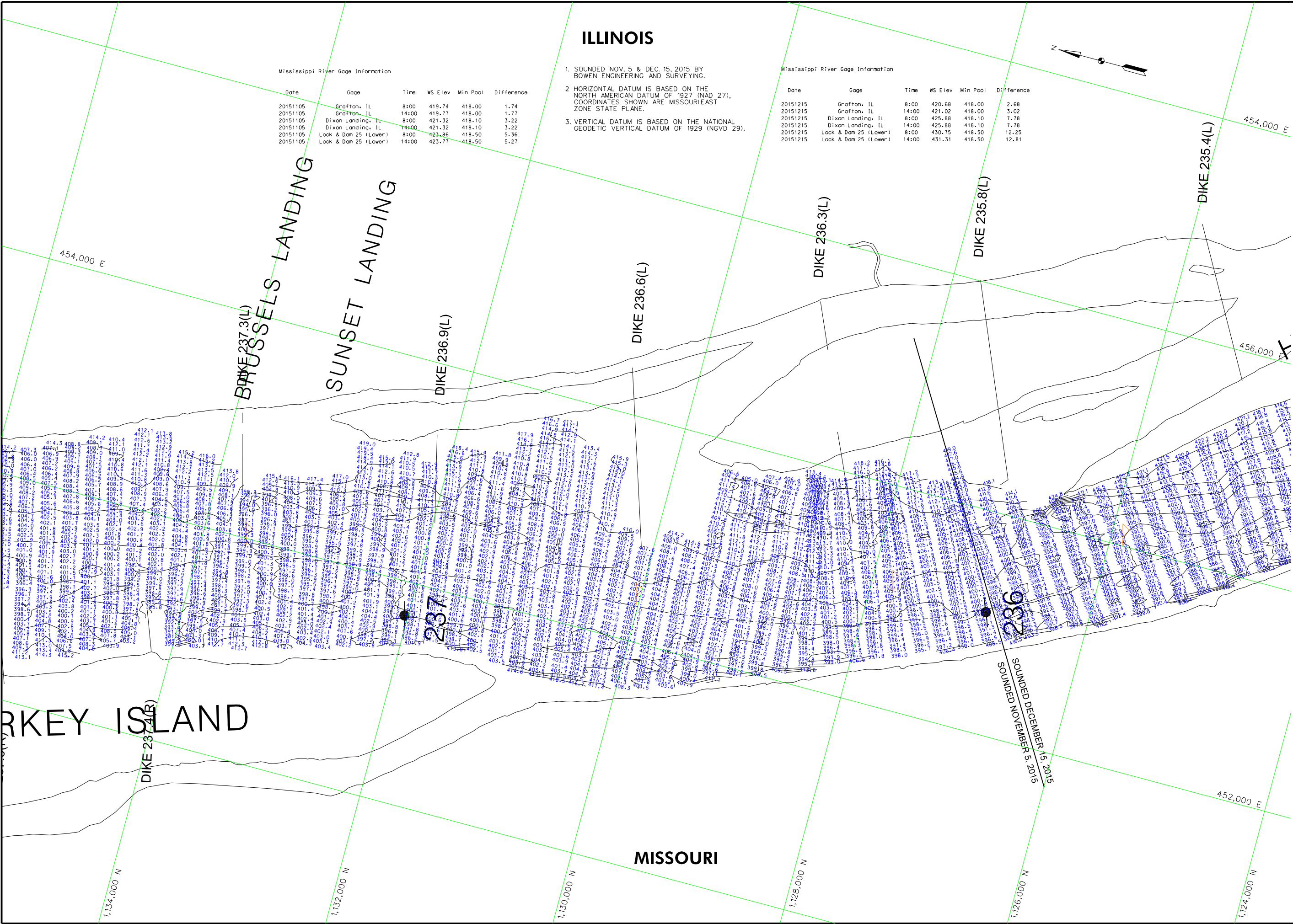
HYDROGRAPHIC SURVEYS

SCALE: 1:24,000

DATE: 2015

PLATE NUMBER

31



Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151105	Grafton, IL	8:00	419.74	418.00	1.74
20151105	Grafton, IL	14:00	419.77	418.00	1.77
20151105	Dixon Landing, IL	8:00	421.32	418.10	3.22
20151105	Dixon Landing, IL	14:00	421.32	418.10	3.22
20151105	Lock & Dam 25 (Lower)	8:00	423.86	418.50	5.36
20151105	Lock & Dam 25 (Lower)	14:00	423.77	418.50	5.27

ILLINOIS

1. SOUNDED NOV. 5 & DEC. 15, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27), COORDINATES SHOWN ARE MISSOURI/EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

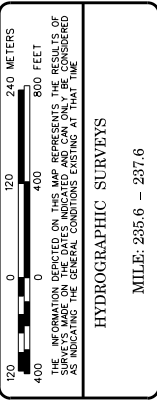
Mississippi River Gage Information

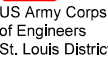
Date	Gage	Time	WS Elev	Min Pool	Difference
20151215	Grafton, IL	8:00	420.68	418.00	2.68
20151215	Grafton, IL	14:00	421.02	418.00	3.02
20151215	Dixon Landing, IL	8:00	425.88	418.10	7.78
20151215	Dixon Landing, IL	14:00	425.88	418.10	7.78
20151215	Lock & Dam 25 (Lower)	8:00	430.75	418.50	12.25
20151215	Lock & Dam 25 (Lower)	14:00	431.31	418.50	12.81



GAGE RECORD		L & D 25 (LOWER)	
ALTON, IL	GRAFTON, IL	DIXON LANDING, IL	L & D 25 (LOWER)
ZERO NGVD	420.00	420.00	420.00
MILE	203.0	218.3	218.3
L.W.R.P.	418.0	418.0	418.0
05 NOV 2015	15.35(400) 15.94(400)	15.78(400) 15.71(400)	15.86(400) 15.71(400)
15 DEC 2015	16.25(400) 17.21(400)	16.25(400) 17.21(400)	16.25(400) 17.21(400)

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Survey Date: NOV. 5 & DEC. 15, 2015
Drawn by: X	Reviewed by: X
Submitted: X	Approved: X
File Name: BOWEN-ENGINEERING-2015-11-05-12-15-2015	Plot Date: BOWEN-ENGINEERING-2015-11-05-12-15-2015





GAGE RECORD			
ALTON, ILL.	DIXON, ILL.	L & D 25 (LOWERY)	
400.00	437.79	410.62	
ZERO N.G.V.D.	208.5	208.3	
MILE	218.5	228.3	241.2
203.0	218.5	218.1	418.5
414.0	418.0	418.1	
X	16.89(400) 17.23(400)	15.26(500)	23.75(800) 24.31(400)
15 DEC 2015			

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTIGUOUS ARE BELOW 1956+37 LOW WATER REFERENCE PLANE (L.W.R.P.) 154,000 C.F.S.)

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by: BOWEN ENGINEERING	Survey Date: DECEMBER 15, 2015
UPPER MISSISSIPPI RIVER BASIN	Drawn by: X	Reviewed by: X
	Ckd by: X	
MISSISSIPPI RIVER	SUBMITTED: X	
	APPROVED: X	
File name: UPPERMISSISSIPPIRIVERBASIN.dwg		Plot date: 04/04/2016 10:08:00 AM

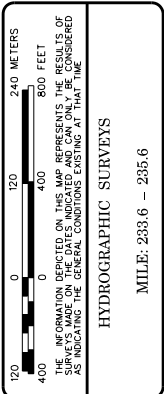
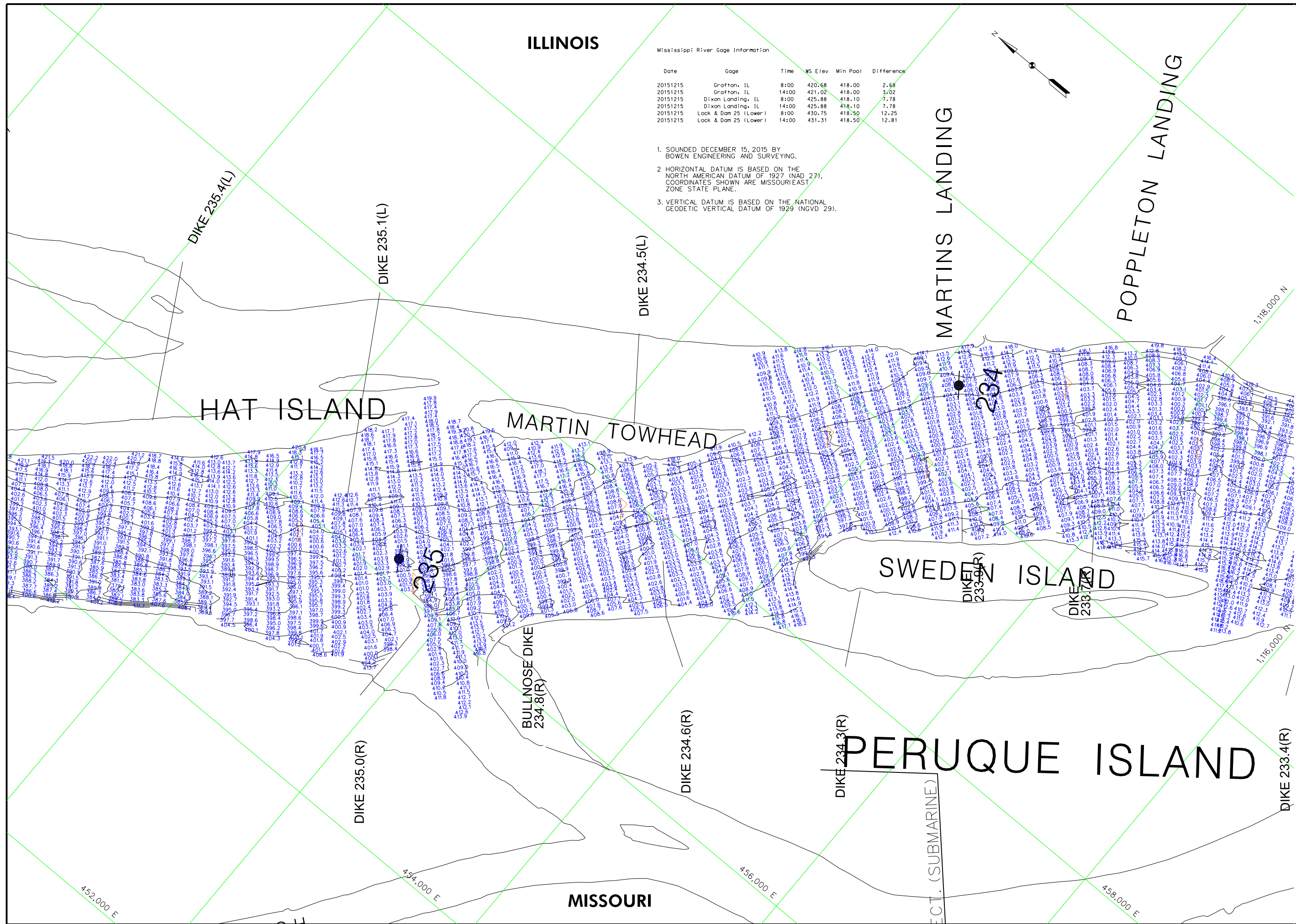


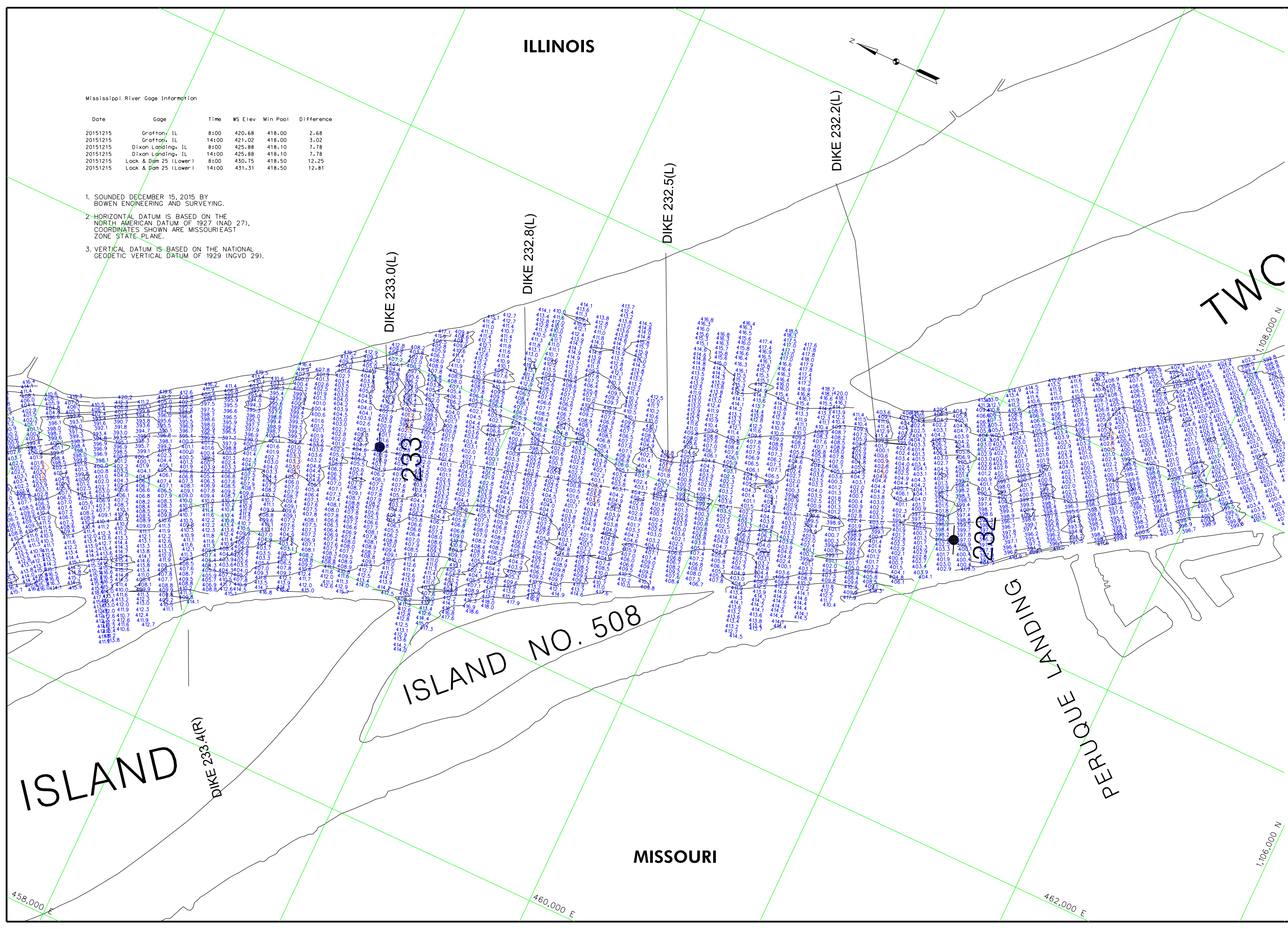
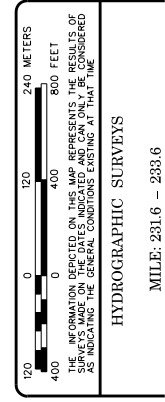
PLATE
NUMBER

33



GAGE RECORD		ALTON, IL	GRAFTON, IL	DIXON LANDING, IL	L & D 25 (LOWER)
ZERO N.G.D.	420.00	403.70	218.6	410.62	407.00
MILE	203.0	414.0	418.0	418.1	241.2
L.W.R.	X	X	X	X	418.3
IS DEC 2015				16,898,000 17,214,000	23,798,000 24,314,000
ELEVATIONS ARE REFERRED TO N.G.D. - CONTOURS ARE BELOW 1986-87 LOW WATER REFERENCE PLANE (L.W.R.P.) 154,000 C.T.S.					

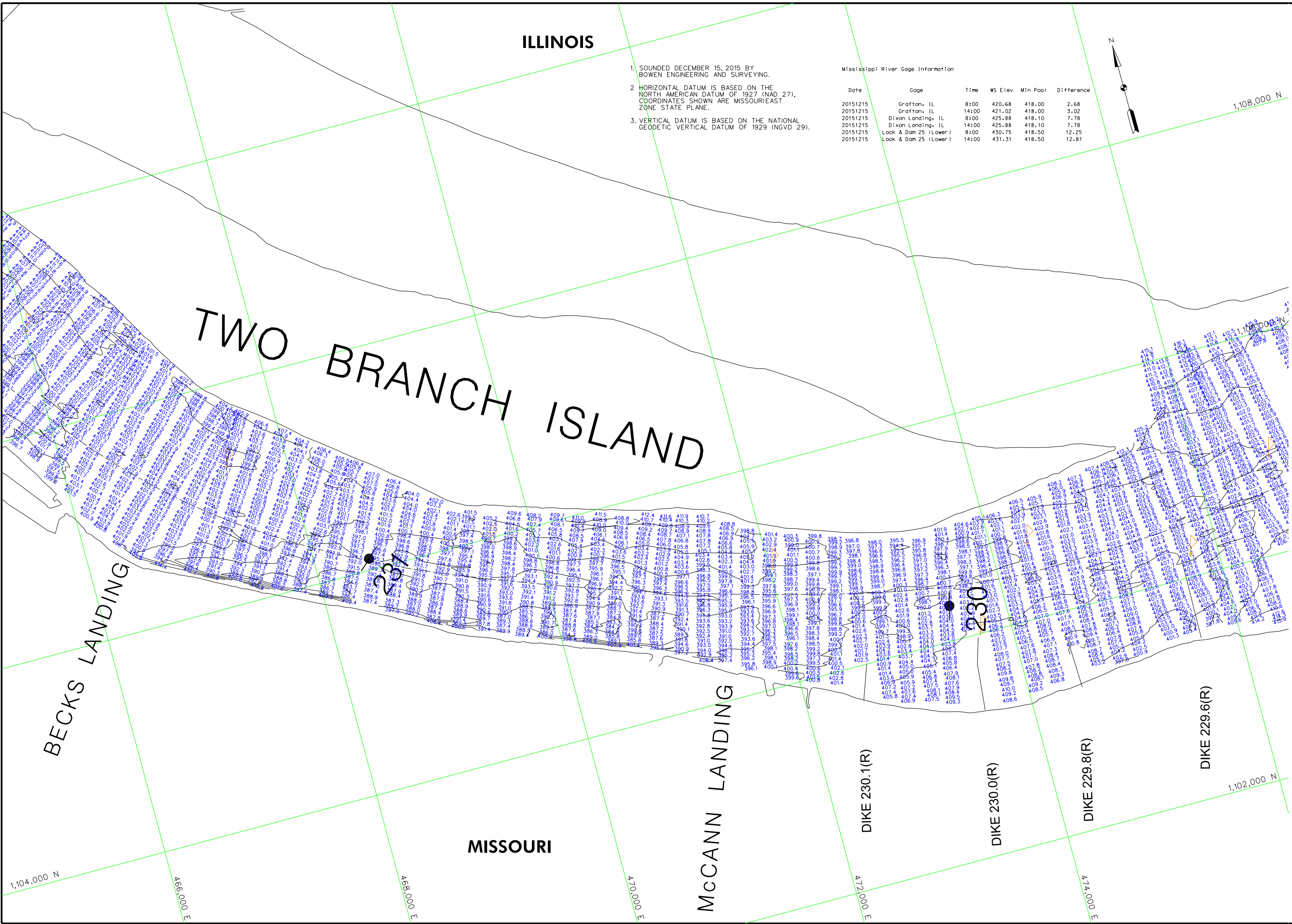
U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER	Survey Date: DECEMBER 15, 2015 Reviewed by: [Signature] Drawn by: [Signature] Submitted: [Signature] File Name: [Signature]	Plot Date: [Signature] APPROVED: [Signature]
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Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151215	Grafton, IL	8:00	420.68	418.00	2.68
20151215	Grafton, IL	14:00	421.02	418.00	3.02
20151215	Dixon Landing, IL	8:00	425.88	418.10	7.78
20151215	Dixon Landing, IL	14:00	425.88	418.10	7.78
20151215	Lock & Dam 25 (Lower)	8:00	430.75	418.50	12.25
20151215	Lock & Dam 25 (Lower)	14:00	431.31	418.50	12.81

1. SOUNDED DECEMBER 15, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



ILLINOIS

- 1. SOUNDED DECEMBER 15, 2015 BY BOWEN ENGINEERING AND SURVEYING.
- 2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
- 3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

Mississippi River Gage Information						
Date	Gage	Time	WS Elev	Min Pool	Difference	
20151215	Grafton, IL	8:00	420.68	418.00	2.68	
20151215	Grafton, IL	14:00	421.02	418.00	3.02	
20151215	Dixon Landings, IL	8:00	425.88	418.10	7.78	
20151215	Dixon Landings, IL	14:00	425.88	418.10	7.78	
20151215	Lock & Dam 25 (Lower)	8:00	430.75	418.50	12.25	
20151215	Lock & Dam 25 (Lower)	14:00	431.31	418.50	12.81	

US Army Corps of Engineers
St. Louis District

GAGE RECORD		DIXON LANDING, IL		L & D 25 (LOWER)	
ALTON, IL	420.00	CRATON, IL	403.70	420.62	407.00
ZERO NGVD	203.0		218.6		241.2
MILE	414.0		418.0		418.3
L.W.R.	X		X		X
15 DEC 2015			16,898,000 17,214,000	15,286,500	23,798,000 24,314,000
ELEVATIONS ARE REFERRED TO NGVD. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.					

Survey Date: DECEMBER 15, 2015

Drawn by: [Signature] Reviewed by: [Signature] Ckd by: [Signature]

SUBMITTED: [Signature] APPROVED: [Signature]

File Name: [Signature] Plot Date: [Signature]

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 BY THE DISTRICT ENGINEER AND HIS STAFF. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE DISTRICT ENGINEER'S APPROVAL.

HYDROGRAPHIC SURVEYS

MILE: 229.5 - 231.6

PLATE NUMBER

35

Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151215	Grafton, IL	8:00	420.68	418.00	2.68
20151215	Grafton, IL	14:00	421.02	418.00	3.02
20151215	Dixon Landing, IL	8:00	425.88	418.10	7.78
20151215	Dixon Landing, IL	14:00	425.88	418.10	7.78
20151215	Lock & Dam 25 (Lower)	8:00	430.75	418.50	12.25
20151215	Lock & Dam 25 (Lower)	14:00	431.31	418.50	12.81

1. SOUNDED DECEMBER 15, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

ILLINOIS

FRUITLAND LANDING

DIXON LANDING

KICKERS LANDING

DIKE 227.4(L)

DIKE 227.9(L)

228

DIKE 228.4(R)

DIKE 228.4(R) (PILE)

DIKE 228.1(R)

DIKE 227.8(R)

DIKE 227.5(R)

APPLE ISLAND

DARDENNE ISLAND

MISSOURI

DIKE 229.4(R)

DIKE 229.1(R)

DIKE 228.8(R)

1,106,000 N

415.1

415.2

415.3

415.4

415.5

415.6

415.7

415.8

415.9

416.0

416.1

416.2

416.3

416.4

416.5

416.6

416.7

416.8

416.9

417.0

417.1

417.2

417.3

417.4

417.5

417.6

417.7

417.8

417.9

418.0

418.1

418.2

418.3

418.4

418.5

418.6

418.7

418.8

418.9

419.0

419.1

419.2

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419.9

420.0

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420.2

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420.5

420.6

420.7

420.8

420.9

421.0

421.1

421.2

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421.5

421.6

421.7

421.8

421.9

422.0

422.1

422.2

422.3

422.4

422.5

422.6

422.7

422.8

422.9

423.0

423.1

423.2

423.3

SOUNDER INTERFERENCE

405.2

405.3

405.4

405.5

405.6

405.7

405.8

405.9

406.0

406.1

406.2

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406.4

406.5

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406.8

406.9

407.0

407.1

407.2

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407.4

407.5

407.6

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407.9

408.0

408.1

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408.5

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408.7

408.8

408.9

409.0

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412.0

412.1

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412.6

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413.0

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413.3

413.4

405.2

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405.9

406.0

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406.9

407.0

407.1

407.2

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407.4

407.5

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407.7

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407.9

408.0

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409.0

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408.9

409.0

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409.9

410.0

410.1

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410.7

410.8

410.9

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411.1

411.2

411.3

411.4

411.5

411.6

411.7

411.8

411.9

412.0

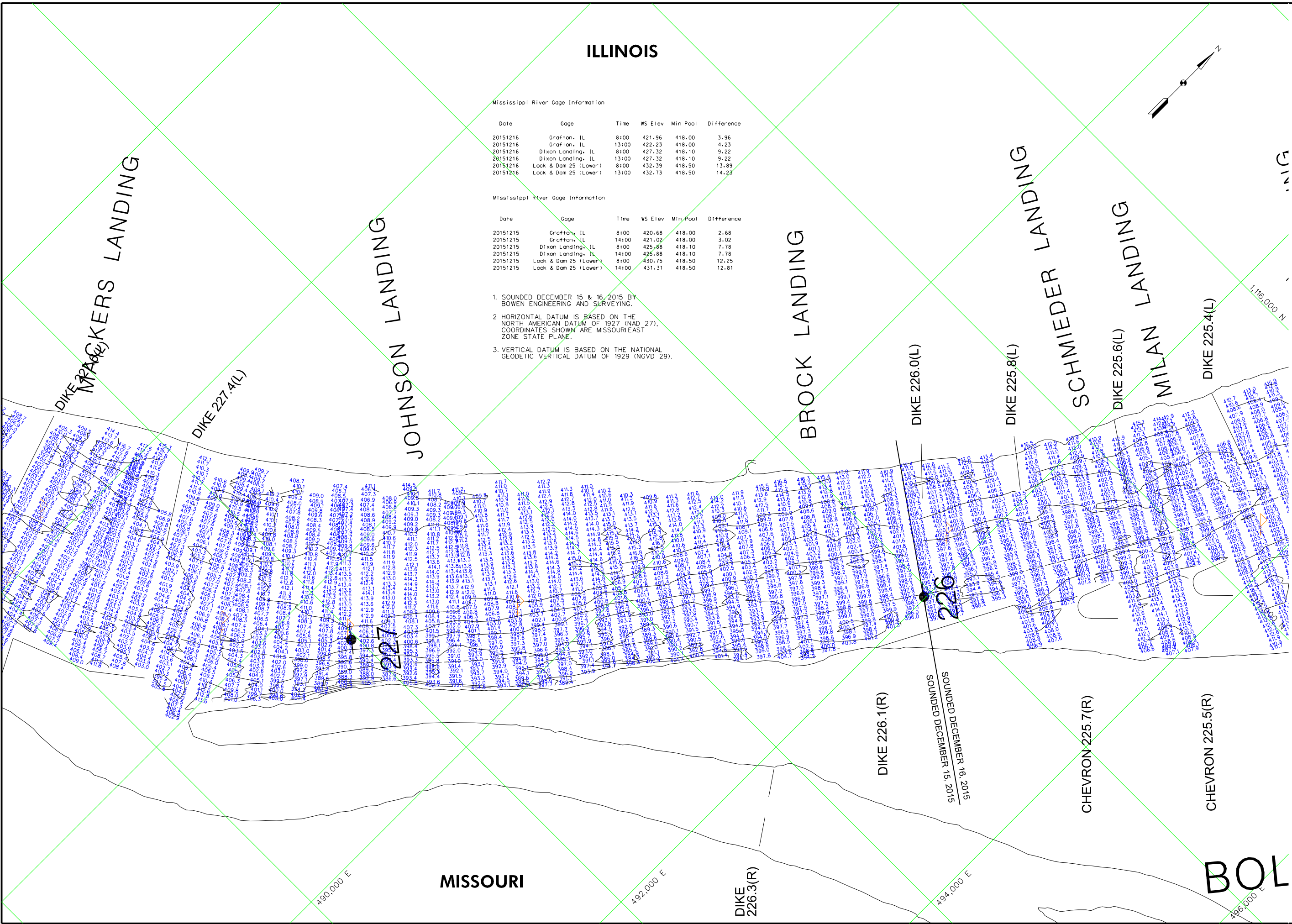
412.1

412.2

412.3

412.4

412.5



Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151216	Grafton, IL	8:00	421.96	418.00	3.96
20151216	Grafton, IL	13:00	422.23	418.00	4.23
20151216	Dixon Landing, IL	8:00	427.32	418.10	9.22
20151216	Dixon Landing, IL	13:00	427.32	418.10	9.22
20151216	Lock & Dam 25 (Lower)	8:00	432.39	418.50	13.89
20151216	Lock & Dam 25 (Lower)	13:00	432.73	418.50	14.23

Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151215	Grafton, IL	8:00	420.68	418.00	2.68
20151215	Grafton, IL	14:00	421.02	418.00	3.02
20151215	Dixon Landing, IL	8:00	425.88	418.10	7.78
20151215	Dixon Landing, IL	14:00	425.88	418.10	7.78
20151215	Lock & Dam 25 (Lower)	8:00	430.75	418.50	12.25
20151215	Lock & Dam 25 (Lower)	14:00	431.31	418.50	12.81

1. SOUNDED DECEMBER 15 & 16, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

US Army Corps of Engineers
St. Louis District

GAGE RECORD	
ALTON, IL	GRAFTON, IL
420.00	420.70
203.0	218.6
414.0	418.0
18,898,600 17,234,400	18,898,600 17,234,400
15 DEC 2015	16 DEC 2015
X	X
ELEVATIONS ARE REFERRED TO N.G.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.	

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Survey Date: DECEMBER 15 & 16, 2015
UPPER MISSISSIPPI RIVER BASIN	Drawn by: X
MISSISSIPPI RIVER	Reviewed by: X
	Submitted: X
	Approved: X
	Plot Date: 11/16/2015

1"=240 METERS
0 120 240 METERS
0 400 800 FEET

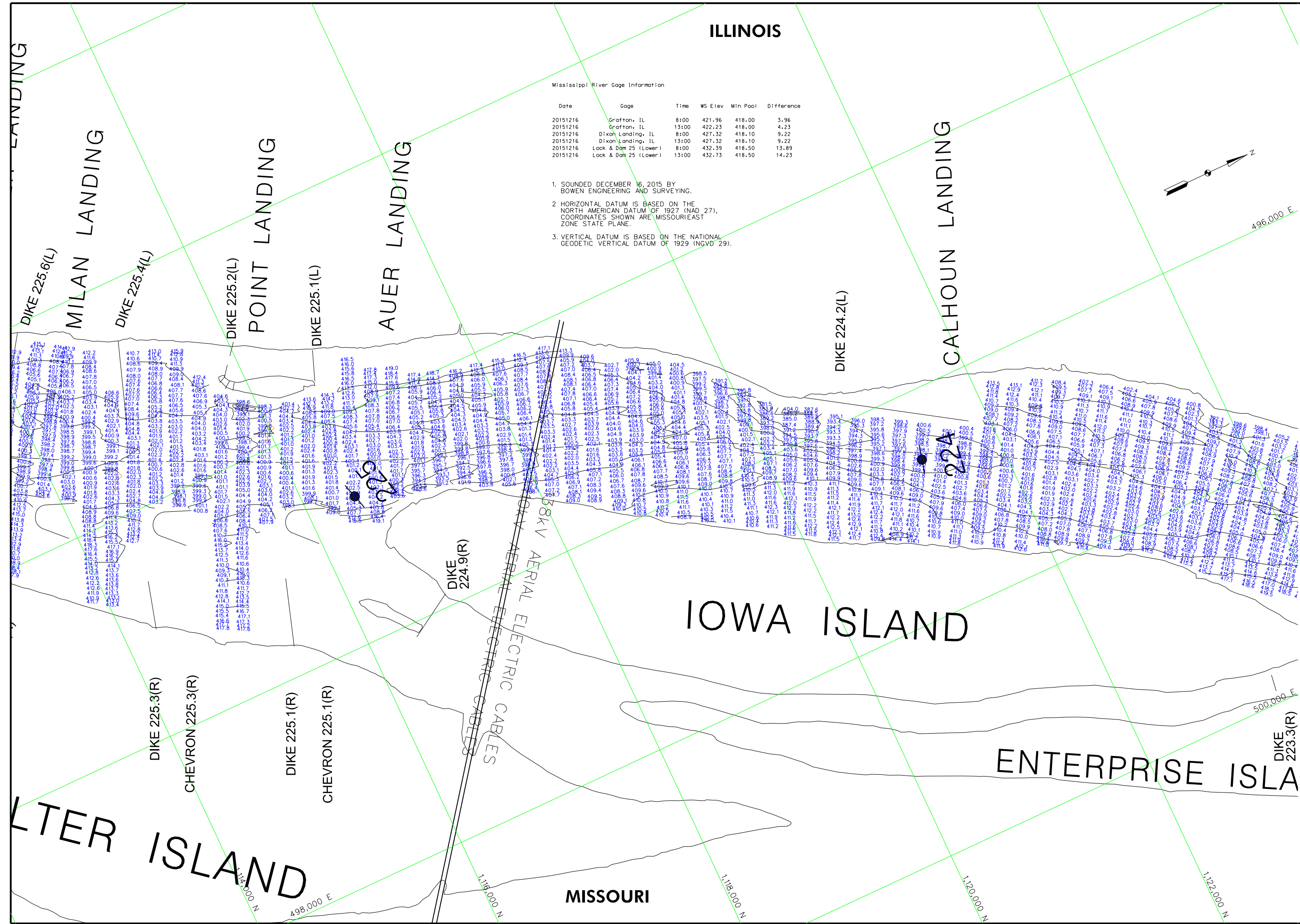
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE ST. LOUIS DISTRICT, U.S. ARMY CORPS OF ENGINEERS, AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.

HYDROGRAPHIC SURVEYS

MILE: 225.5 - 227.5

PLATE NUMBER

37



Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151216	Grafton, IL	8:00	421.96	418.00	3.96
20151216	Grafton, IL	13:00	422.23	418.00	4.23
20151216	Dixon Landing, IL	8:00	427.32	418.10	9.22
20151216	Dixon Landing, IL	13:00	427.32	418.10	9.22
20151216	Lock & Dam 25 (Lower)	8:00	432.39	418.50	13.89
20151216	Lock & Dam 25 (Lower)	13:00	432.73	418.50	14.23

1. SOUNDED DECEMBER 16, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



GAUGE RECORD

ALTON, IL	GRAFTON, IL	DIXON LANDING, IL	L & D 25 (LOWER)
ZERO NGVD	420.00	420.70	420.62
MILE	203.0	218.6	228.3
L.W.R.P.	414.0	418.0	418.1
16 DEC 2015	X	18,178,607 16,441,000	16,107,541

ELEVATIONS ARE REFERRED TO NGVD. COORDINATES ARE BELOW 1984-57 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.

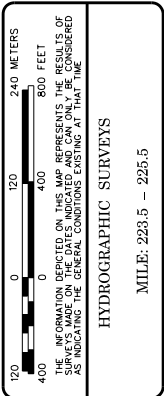
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

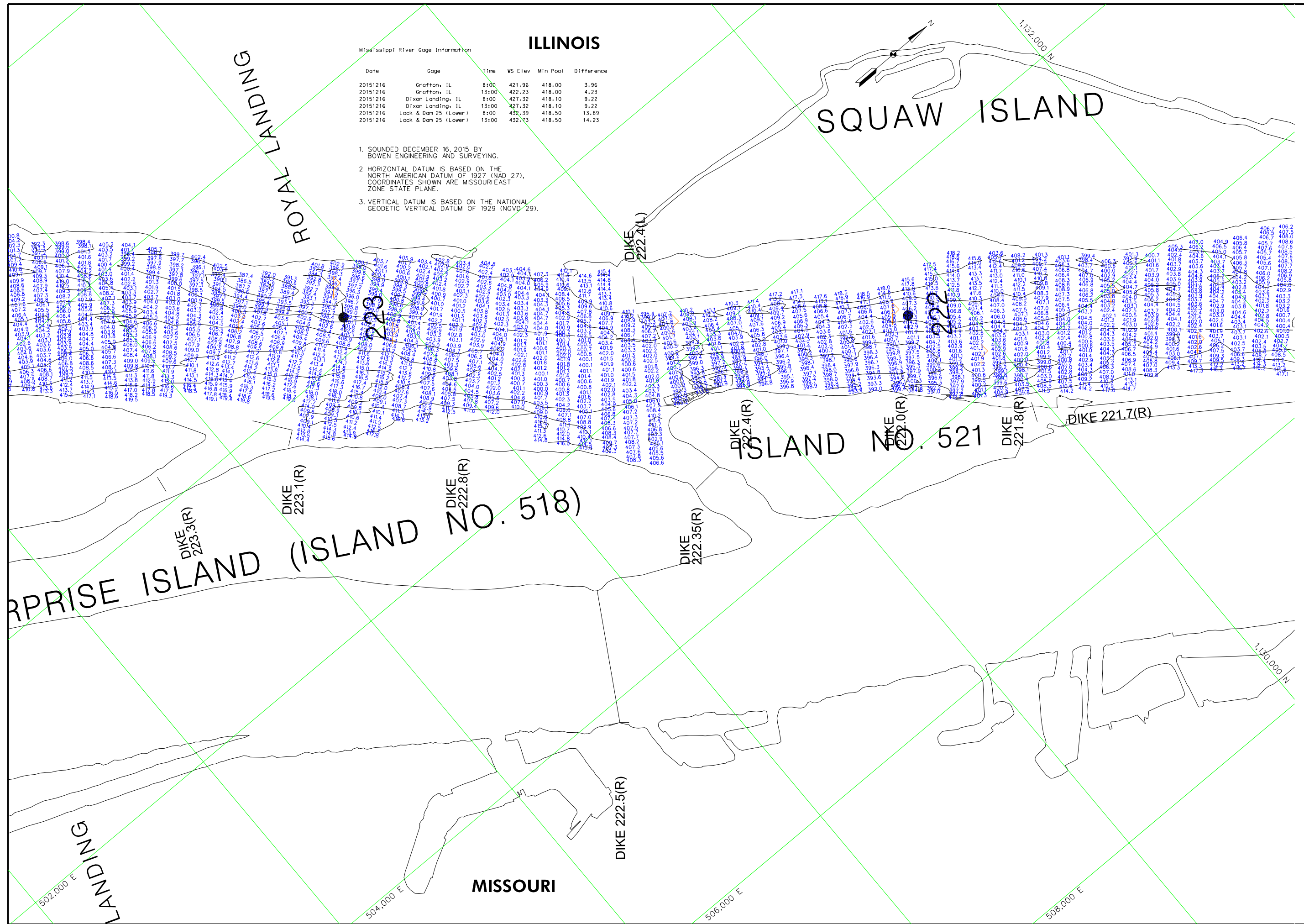
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

Survey Date: DECEMBER 16, 2015

Drawn by: X
Reviewed by: X
Submitted: X
Approved: X

Plot Date: 11/16/2015



Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151216	Grafton, IL	8:00	421.96	418.00	3.96
20151216	Grafton, IL	13:00	422.23	418.00	4.23
20151216	Dixon Landing, IL	8:00	427.32	418.10	9.22
20151216	Dixon Landing, IL	13:00	427.32	418.10	9.22
20151216	Lock & Dam 25 (Lower)	8:00	432.39	418.50	13.89
20151216	Lock & Dam 25 (Lower)	13:00	432.73	418.50	14.23

1. SOUNDED DECEMBER 16, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27), COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



US Army Corps of Engineers

St. Louis District

GAGE RECORD	
STATION	GAGE
ALTON, ILL.	GRAFTON, ILL.
400.00	403.79
ZERO N.G.V.D.	218.6
MILE	225.3
203.0	241.2
444.0	438.5
L.W.R.P.	438.0
16 DEC 2015	18 178.00 18 413.00
	25.598(0.0) 23.313(4.0)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTIGUES ARE BELOW 1994-95 LOW WATER REFERENCE PLANE (L.W.R.P.), 154.000 C.F.S.

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by:	BOWEN, ENGINEERING	Survey Date:	DECEMBER 16, 2015
	Drawn by:	X	Reviewed by:	X
UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER	SUBMITTED:		APPROVED:	
	X		X	
File name:			Plot date:	
P:\PERS\ARMY\PROJECTS\ACT\2006			BIBBITE-10/06/06	

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF
AERIAL PHOTOGRAPHIC INTERPRETATION CONSIDERED
AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

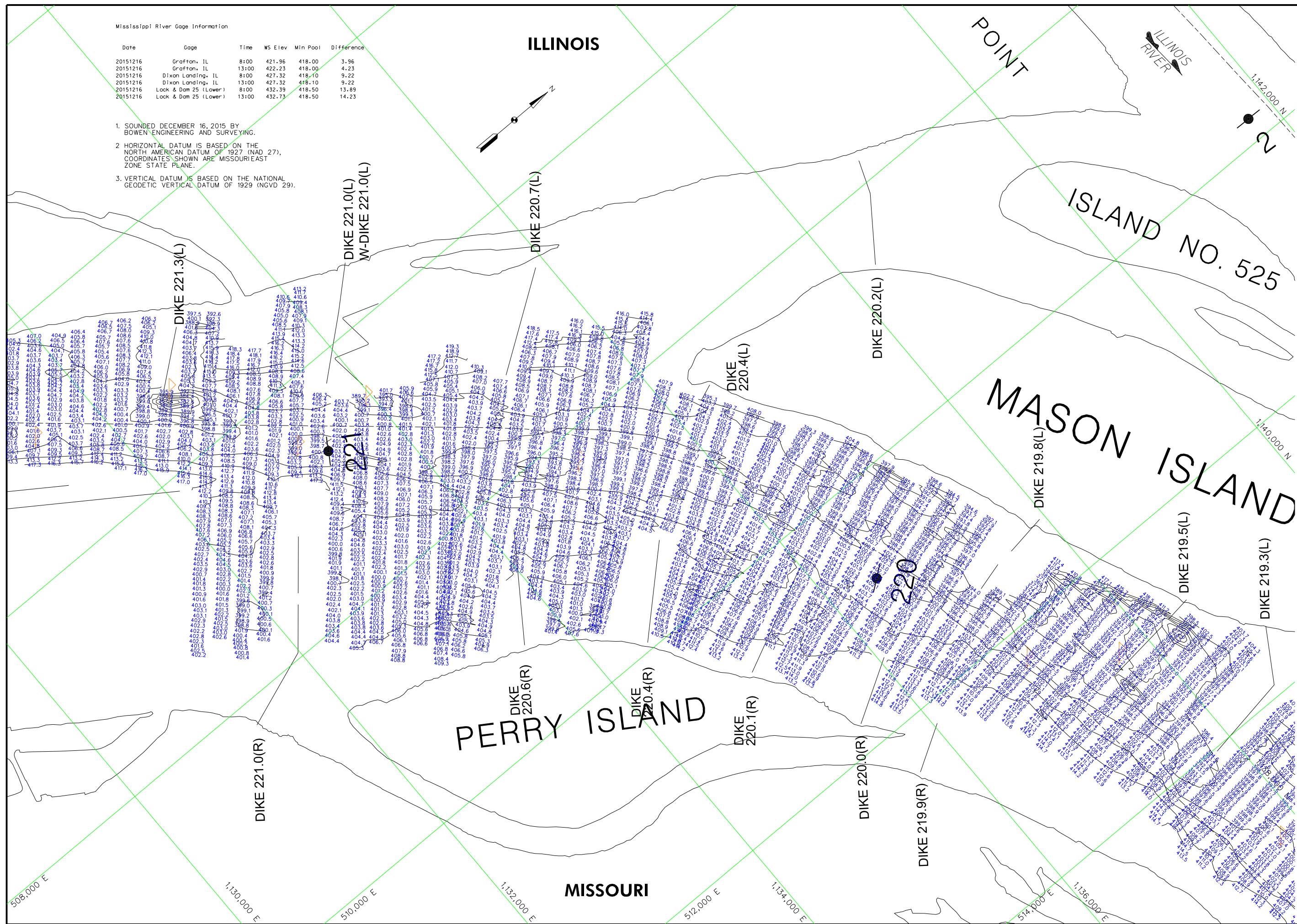
HYDROGRAPHIC SURVEYS

MILE: 221.4 - 223.5

PLATE
NUMBER
39

Date	Gage	Time	WS Elev	Min Pool	Difference
20151216	Grafton, IL	8:00	421.96	418.00	3.96
20151216	Grafton, IL	13:00	422.23	418.00	4.23
20151216	Dixon Landing, IL	8:00	427.32	418.10	9.22
20151216	Dixon Landing, IL	13:00	427.32	418.10	9.22
20151216	Lock & Dam 25 (Lower)	8:00	432.39	418.50	13.89
20151216	Lock & Dam 25 (Lower)	13:00	432.73	418.50	14.23

1. SOUNDED DECEMBER 16, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27), COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



GAGE RECORD				
	ALTON, IL.	GRAFTON, IL.	DIXON, ILLINOIS	L & D 25 (LOWER?)
ZERO N.G.V.D.	400.00	403.79	410.62	407.00
M.E.	203.0	218.6	228.3	241.2
L.W.R.P.	414.0	418.0	418.1	418.5
16 DEC 2015	X	18.1718(00)	18.4413(00)	16.7012(54)
				25.3918(00)
				25.7313(00)

ELEVATIONS ARE REFERRED TO N.G.S.V. - CONTIGUOUS ARE BELOW 1006-37; LOW WATER REFERENCE PLANE (L.W.R.P.) 154.000 (C.F.S.)

U.S. ARMY ENGINEER DIVISION CONSTRUCTION REGIMENT ST. LOUIS, MISSOURI	Surveyed by: BOWEN ENGINEERING		Survey Date: DECEMBER 16, 2015	
	Drawn by: X	Reviewed by: X	Ckd by: X	
	SUBMITTED: X		APPROVED: X	
UPPER MISSISSIPPI RIVER BASIN	File name: UPPERMISSRIVERBASIN		Plot date: 8/8/2016 15:46:44	
MISSISSIPPI RIVER				

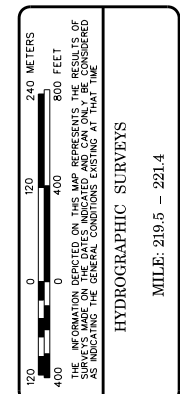
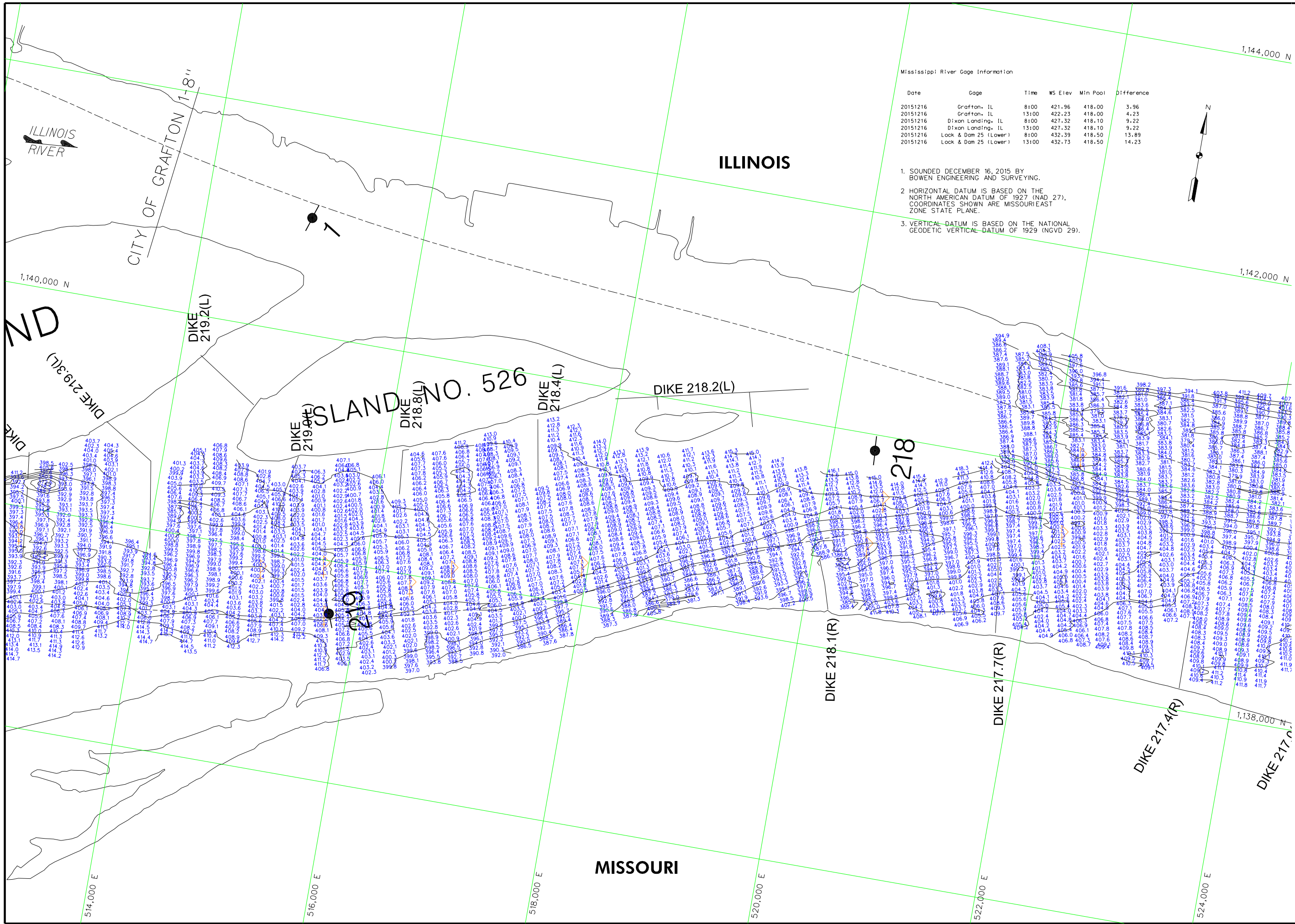


PLATE
NUMBER

40



Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151216	Grafton, IL	8:00	421.96	418.00	3.96
20151216	Grafton, IL	13:00	422.23	418.00	4.23
20151216	Dixon Landing, IL	8:00	427.32	418.10	9.22
20151216	Dixon Landing, IL	13:00	427.32	418.10	9.22
20151216	Lock & Dam 25 (Lower)	8:00	432.39	418.50	13.89
20151216	Lock & Dam 25 (Lower)	13:00	432.73	418.50	14.23

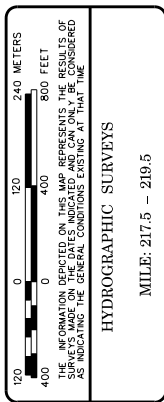
1. SOUNDED DECEMBER 16, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

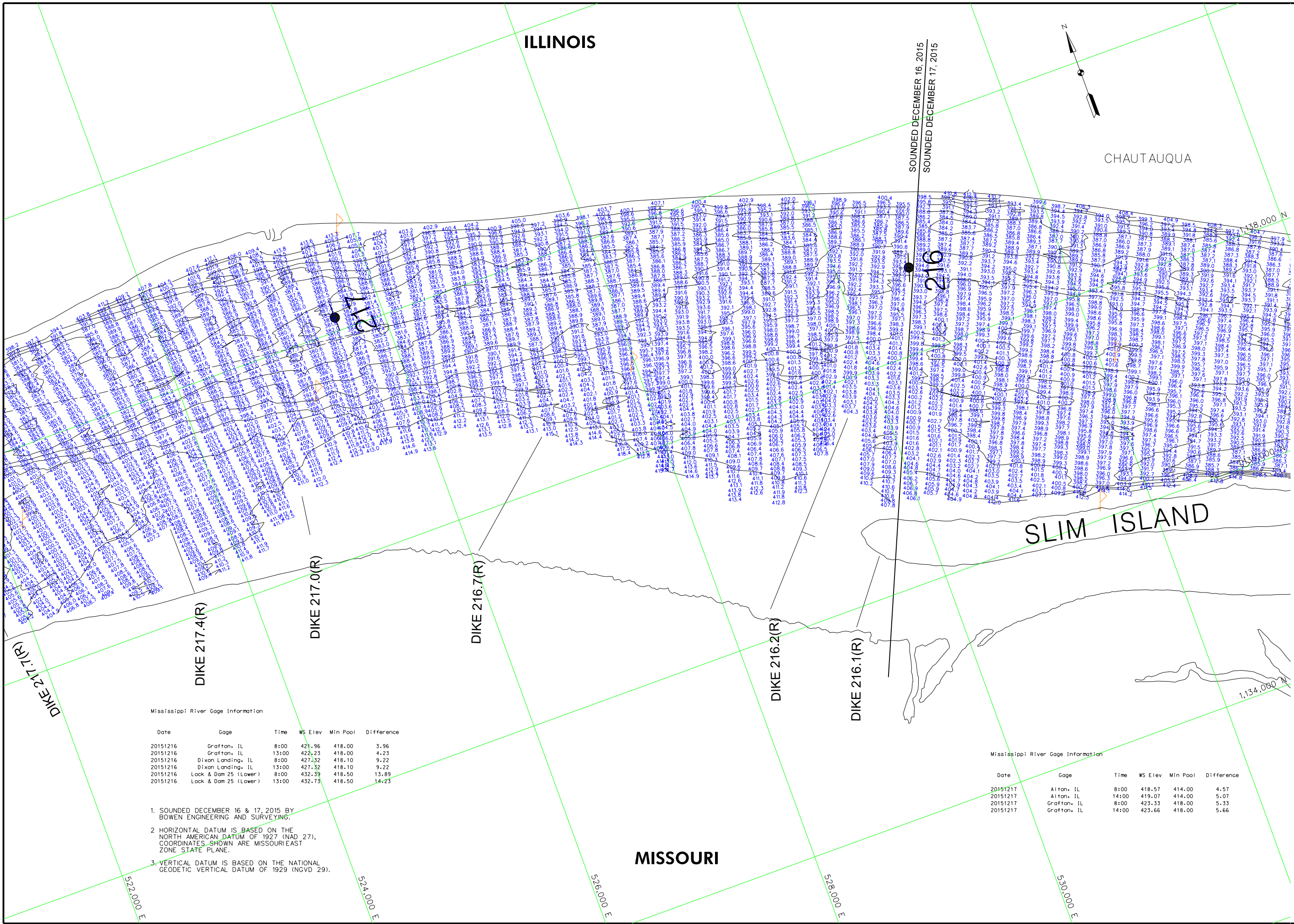


GAGE RECORD		DIXON LANDING, IL		GRAFTON, IL		LOCK & DAM 25 (LOWER)	
ZERO N.G.V.D.	420.00	420.00	218.6	420.00	218.6	420.00	218.6
16 DEC 2015	X	18.178(00) 18.44(10.00)	18.178(00) 18.44(10.00)	18.178(00) 18.44(10.00)	18.178(00) 18.44(10.00)	18.178(00) 18.44(10.00)	18.178(00) 18.44(10.00)

ELEVATIONS ARE REFERRED TO N.G.V.D. COORDINATES ARE BELOW 1986-87 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER	Survey Date: DECEMBER 16, 2015 Drawn by: [X] Reviewed by: [X] Submitted: [X] Approved: [X] Plot Date: [X] File Name: [X]
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Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151216	Grafton, IL	8:00	421.96	418.00	3.96
20151216	Grafton, IL	13:00	422.23	418.00	4.23
20151216	Dixon Landing, IL	8:00	427.32	418.10	9.22
20151216	Dixon Landing, IL	13:00	427.32	418.10	9.22
20151216	Lock & Dam 25 (Lower)	8:00	432.39	418.50	13.89
20151216	Lock & Dam 25 (Lower)	13:00	432.73	418.50	14.23

1. SOUNDED DECEMBER 16 & 17, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151217	Alton, IL	8:00	418.57	414.00	4.57
20151217	Alton, IL	14:00	419.07	414.00	5.07
20151217	Grafton, IL	8:00	423.33	418.00	5.33
20151217	Grafton, IL	14:00	423.66	418.00	5.66

US Army Corps
of Engineers
St. Louis District

CASE RECORD	GRAFTON, IL	DIXON, ILLINOIS
ALTON, IL	403.79	218.6
400.00	203.0	218.3
MILE	414.0	418.0
L.W.R.P.	X	18.17(600) (E.44(13.00))
16 DEC 2015	X	18.17(600) (E.44(13.00))
17 DEC 2015	X	18.17(600) (E.44(13.00))

ELEVATIONS ARE REFERRED TO N.G.D. CONTOURS ARE BELOW 1000-57 LOW WATER REFERENCE PLANE (L.W.R.P.) 154.000 C.T.S.

Survey Date: DECEMBER 16 & 17, 2015

Drawn by: X

Reviewed by: X

Submitted: X

Plot Date: 12/17/2015

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 IN THE DATES INDICATED AND IS NOT TO BE CONSIDERED A GUARANTEE OF ACCURACY.

HYDROGRAPHIC SURVEYS

MILE: 215.4 - 217.5

PLATE NUMBER

42

Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151217	Alton, IL	8:00	418.57	414.00	4.57
20151217	Alton, IL	14:00	419.07	414.00	5.07
20151217	Grafton, IL	8:00	423.33	418.00	5.33
20151217	Grafton, IL	14:00	423.66	418.00	5.66

1. SOUNDED DECEMBER 17, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURIEAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

ILLINOIS

ELSAH

ELSAH BAR

BULLNOSE DIKE 213.9(R) PORTAGE

SLAND

LUESSE LAKE

DIKE 214.7(R)

MISSOURI

WEBER LAKE

WANSCH LANDING

US Army Corps
of Engineers
St. Louis District

CAGE RECORD	ALTON, IL	GRAFTON, IL	DIVON, ILLINOIS
ZERO N.G.D.	420.00	420.79	420.62
MILE	203.0	218.6	228.3
L.W.R.P.	412.5	414.0	418.1
17 DEC 2015	X	18.318(00) 19.511(400)	X

ELEVATIONS ARE REFERRED TO N.G.D. CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) 154,000 C.T.S.

Survey Date	December 17, 2015	Drawn by	Reviewed by	Checked by
Submitted	X	X	X	X
Approved	X	X	X	X

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

Plot Date: 12/17/2015

File Name: 213.4 - 215.4

120	0	120	240 METERS
400	0	400	800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE DISTRICT ENGINEER AND HIS STAFF. IT IS NOT TO BE CONSIDERED A GUARANTEE OF THE DATA OR THE RESULTS OF THE SURVEYS.

HYDROGRAPHIC SURVEYS

MILE: 213.4 - 215.4

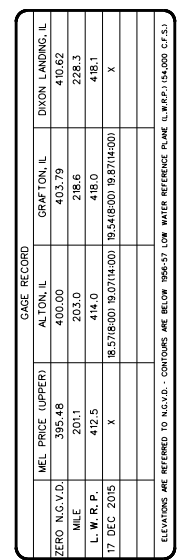
PLATE
NUMBER

43

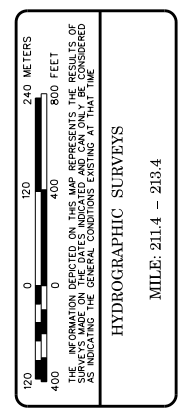
US Army Corps
of Engineers
St. Louis District

Mississippi River Gage Information

1. SOUNDED DECEMBER 17, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27), COORDINATES SHOWN ARE MISSOURI/EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by: BOWEN, ENGINEERING Drawn by: X Reviewed by: X Ckd by: X Survey Date: DECEMBER 17, 2015
UPPER MISSISSIPPI RIVER BASIN	SUBMITTED: X APPROVED: X
MISSISSIPPI RIVER	File name: P07500001P07500001-00000000 Plot date: 00/00/00

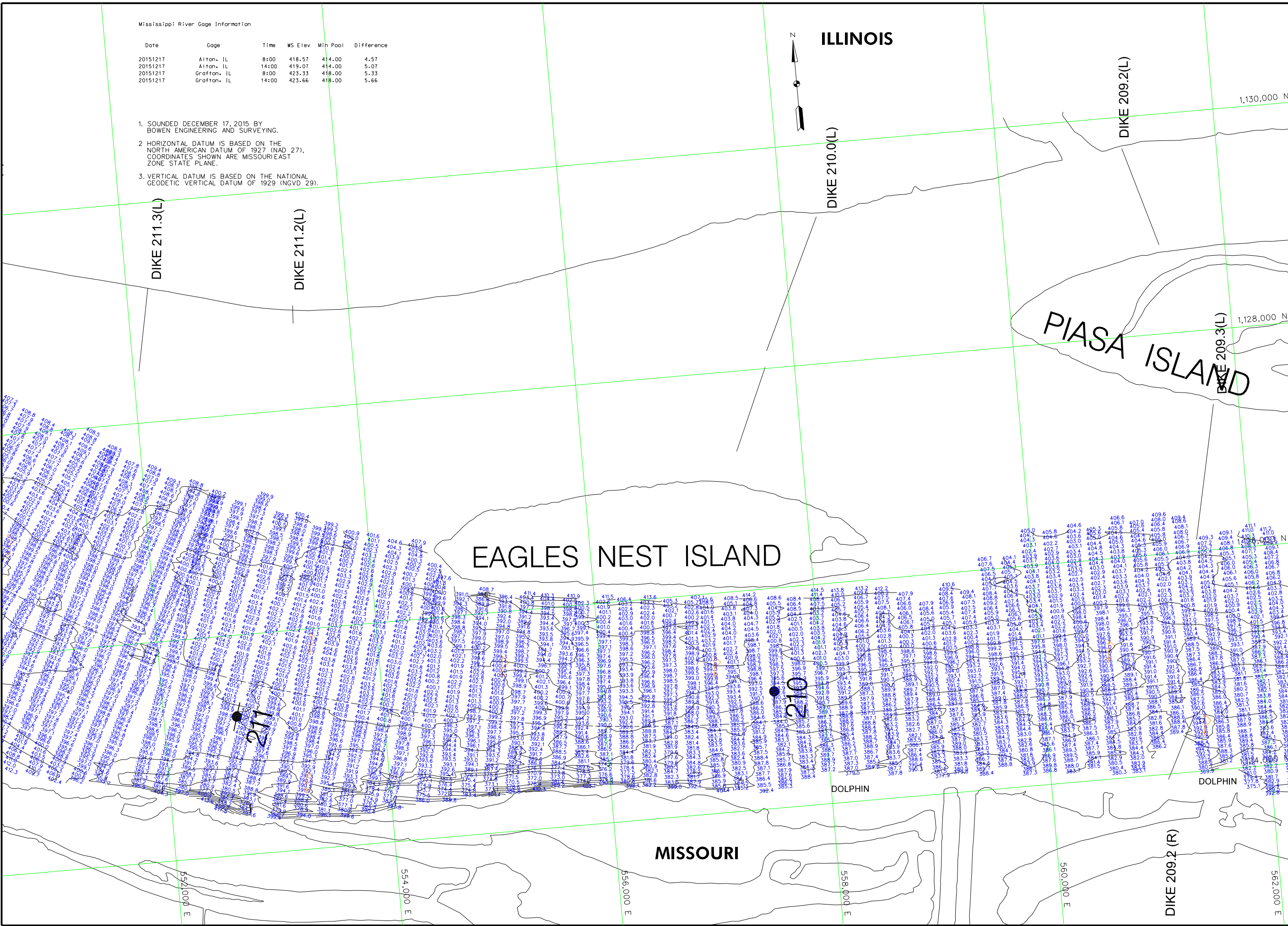


44

Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151217	Alton, IL	8:00	418.57	414.00	4.57
20151217	Alton, IL	14:00	419.07	414.00	5.07
20151217	Grafton, IL	8:00	423.33	418.00	5.33
20151217	Grafton, IL	14:00	423.66	418.00	5.66

1. SOUNDED DECEMBER 17, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



GAGE RECORD	
ALTON, IL	GRAFTON, IL
MEL PRICE (UPPER)	400.00
ZERO N.G.V.D.	203.0
MILE	201.1
L.W.R.P.	414.0
17 DEC 2015	18.318(00) 19.511(00) 19.548(00) 19.511(00)
ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.	

U.S. ARMY ENGINEER DIVISION	ST. LOUIS, MISSOURI	UPPER MISSISSIPPI RIVER BASIN	MISSISSIPPI RIVER
Drawn by:	Reviewed by:	Submitted by:	Plot date:
Dec 17, 2015	Dec 17, 2015	Dec 17, 2015	Dec 17, 2015
Drawn by:	Reviewed by:	Submitted by:	Plot date:
Dec 17, 2015	Dec 17, 2015	Dec 17, 2015	Dec 17, 2015

HYDROGRAPHIC SURVEYS
0 120 240 METERS
0 400 800 FEET
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN BE CONSIDERED AS ACCURATE TO THE DEGREE SHOWN ON THE MAP.

PLATE NUMBER
45

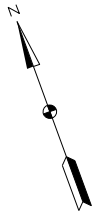
1. SOUNDED DECEMBER 17, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

ILLINOIS

Mississippi River Gage Information

Date	Gage	Time	WS Elev	Min Pool	Difference
20151217	Alton, IL	8:00	418.57	414.00	4.57
20151217	Alton, IL	14:00	419.07	414.00	5.07
20151217	Grafton, IL	8:00	423.33	418.00	5.33
20151217	Grafton, IL	14:00	423.66	418.00	5.66

MOTOR BOAT



DIKE 207.2(L)

DIKE 208.5(L)

DIKE 208.3(L)

DIKE 208.9(L)

208

209

DRESSER ISLAND

MISSOURI

DIKE 209.2 (R)

DIKE 208.8(R)

DIKE 208.4(R)

DIKE 208.0(R)

DIKE 207.6(R)

DIKE 207.2 (R)

DOLPHIN



GAGE RECORD		ALTON, IL	GRAFTON, IL	DIXON, ILLINOIS
MEL PRICE (UPPER)		395.48	393.79	394.8
ZERO N.G.T.O.		420.00	403.79	404.62
MILE		203.0	218.6	228.3
L.W.R.P.		412.5	418.0	418.1
17 DEC 2015		X	18.518(00) 19.011(00)	19.548(00) 19.611(00)

Survey Date	December 17, 2015
Drawn by	BOWEN ENGINEERING
Reviewed by	X
Submitted	X
Approved	X
Plot Date	11/18/2015

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER
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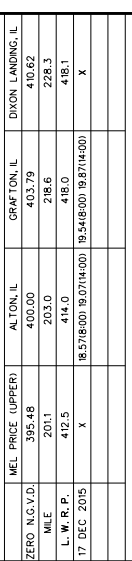
120 400 800 1200 1600 2000 2400 2800 3200 3600 4000 4400 4800 5200 5600 6000 6400 6800 7200 7600 8000 8400 8800 9200 9600 10000 10400 10800 11200 11600 12000 12400 12800 13200 13600 14000 14400 14800 15200 15600 16000 16400 16800 17200 17600 18000 18400 18800 19200 19600 20000 20400 20800 21200 21600 22000 22400 22800 23200 23600 24000 24400 24800 25200 25600 26000 26400 26800 27200 27600 28000 28400 28800 29200 29600 30000 30400 30800 31200 31600 32000 32400 32800 33200 33600 34000 34400 34800 35200 35600 36000 36400 36800 37200 37600 38000 38400 38800 39200 39600 40000 40400 40800 41200 41600 42000 42400 42800 43200 43600 44000 44400 44800 45200 45600 46000 46400 46800 47200 47600 48000 48400 48800 49200 49600 50000 50400 50800 51200 51600 52000 52400 52800 53200 53600 54000 54400 54800 55200 55600 56000 56400 56800 57200 57600 58000 58400 58800 59200 59600 60000 60400 60800 61200 61600 62000 62400 62800 63200 63600 64000 64400 64800 65200 65600 66000 66400 66800 67200 67600 68000 68400 68800 69200 69600 70000 70400 70800 71200 71600 72000 72400 72800 73200 73600 74000 74400 74800 75200 75600 76000 76400 76800 77200 77600 78000 78400 78800 79200 79600 80000 80400 80800 81200 81600 82000 82400 82800 83200 83600 84000 84400 84800 85200 85600 86000 86400 86800 87200 87600 88000 88400 88800 89200 89600 90000 90400 90800 91200 91600 92000 92400 92800 93200 93600 94000 94400 94800 95200 95600 96000 96400 96800 97200 97600 98000 98400 98800 99200 99600 100000	THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE ST. LOUIS DISTRICT, U.S. ARMY CORPS OF ENGINEERS. THE INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE ST. LOUIS DISTRICT, U.S. ARMY CORPS OF ENGINEERS.
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PLATE NUMBER	46
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Date	Gage	Time	WS Elev	Min Pool	Difference
20151217	Aiton, IL	8:00	418.57	414.00	4.57
20151217	Aiton, IL	14:00	419.07	414.00	5.07
20151217	Grafton, IL	8:00	423.33	418.00	5.33
20151217	Grafton, IL	14:00	423.66	418.00	5.66

DIKE 205.2(L)

1,120,000 N



BOWEN ENGINEERING	DECEMBER 17, 2015	
Drawn by: X	Reviewed by: X	Chk by: X
SUBMITTED: X	APPROVED: X	
File name:	Plot date: 00000000000000000000	

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE FIELD SURVEY CONDUCTED BY THE U.S. GEOLOGICAL SURVEY AND IS CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS

MILE: 205.0 - 207.1

PLATE
NUMBER

47



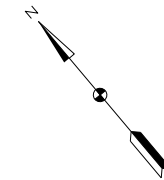
Mississippi River Gage Information

Mississippi River Gage Information

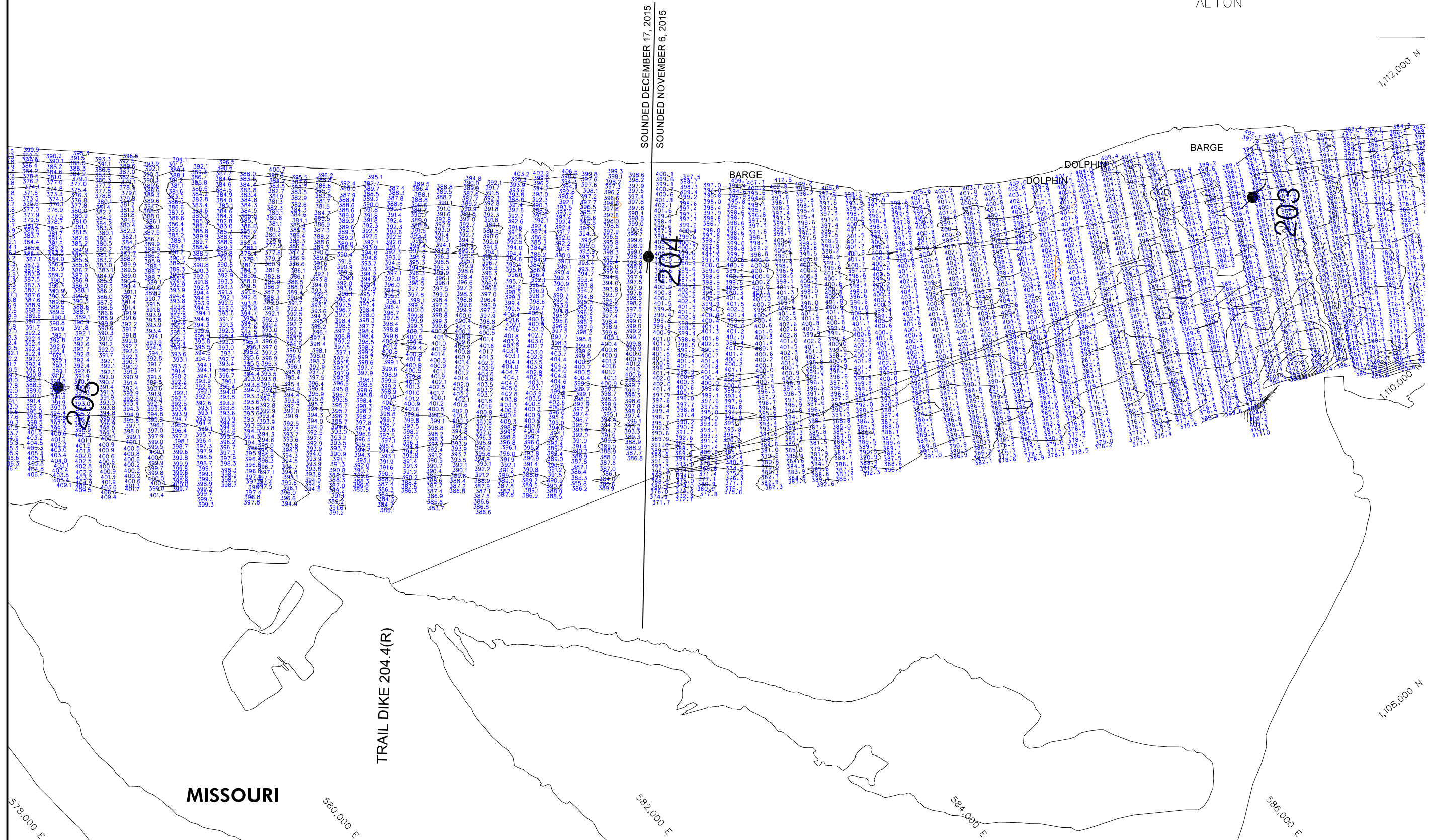
Date	Gage	Time	WS Elev	Min Pool	Difference
20151217	Alton, IL	8:00	418.57	414.00	4.57
20151217	Alton, IL	14:00	419.07	414.00	5.07
20151217	Grafton, IL	8:00	423.33	418.00	5.33
20151217	Grafton, IL	14:00	423.66	418.00	5.66

Date	Gage	Time	WS Elev	Min Pool	Difference
20151106	Mel Price Upper	7:00	419.01	412.50	6.51
20151106	Mel Price Upper	11:00	419.09	412.50	6.59
20151106	Alton, IL	7:00	419.10	414.00	5.10
20151106	Alton, IL	11:00	419.14	414.00	5.14
20151106	Grafton, IL	7:00	419.68	418.00	1.68
20151106	Grafton, IL	11:00	419.69	418.00	1.69

1. SOUNDED NOV. 6 & DEC. 17, 2015 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27), COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



ALTON



GAGE RECORD				
	MEL PRICE (UPPER)	ALTON, IL	GRAFTON, IL	DIXON LANDING, IL
BERO N.Y.D.	395.48	400.00	403.79	410.62
MILE	20.1	203.0	218.6	228.3
L. W. R. P.	412.5	414.0	418.0	418.1
6 NOV 2015	21,537/000 23,611/100	19,107/000 19,411/100	15,887/000 15,801/100	X
7 7 REC 2015	X	18,571/800 19,071/400	19,541/600 19,871/400	X

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by: BOWEN ENGINEERING		Survey Date: NOV. 6 & DEC. 17, 2015	
	Drawn by: X	Reviewed by: X	Old by: X	
UPPER MISSISSIPPI RIVER BASIN	SUBMITTED: X		APPROVED: X	
	MISSISSIPPI RIVER			
File name:			Plot date: 11/26/2015 10:48:00	

HYDROGRAPHIC SURVEYS

MILE: 202.8 – 205.0

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEY CONDUCTED BY THE U.S. NAVY. IT IS NOT TO BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE
NUMBER

1. SOUNDED NOVEMBER 6, 2015 BY
BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE
NORTH AMERICAN DATUM OF 1927 (NAD 27).
COORDINATES SHOWN ARE MISSOURI EAST
ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL
GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



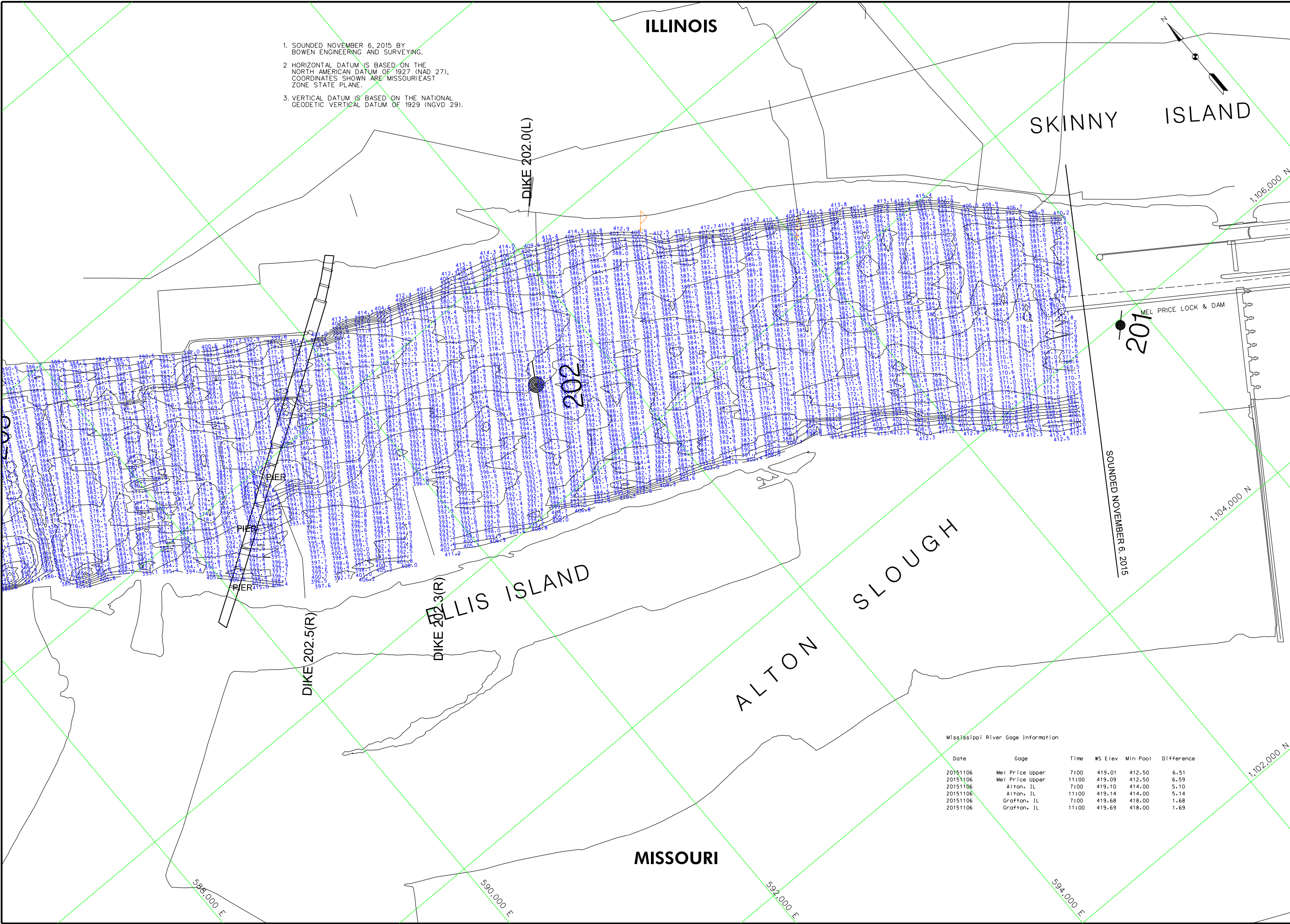
GAGE RECORD					
	MEL PRICE (UPPER)	ALTON, IL	GRAFTON, IL	DIVON, ILLINOIS, IL	
ZERO NGVD	395.48	420.00	403.79	420.62	
1 MILE	201.1	203.0	218.6	228.3	
L.W.R.P.	412.5	414.0	418.0	418.1	
06 NOV 2015	21.537/100 (2.541100)	19.807/100 (1.981100)	15.897/100 (1.589100)	X	

ELEVATIONS ARE REFERRED TO NGVD. CONTOURS ARE BELOW 1996-37 LOW WATER REFERENCE PLANE (LWRP) 154.000 CL 5.3

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI		Survey Date: NOVEMBER 6, 2015	
UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER	Drawn by:	Reviewed by:	Ckd by:
	X	X	X
	SUBMITTED:	APPROVED:	Plot Date:
X	X	X	8/8/2016 (TMM/BBB)
File Name:		PROJECT/DATE/PLATE	
UPPER MISSISSIPPI RIVER BASIN		MISSISSIPPI RIVER	

Mississippi River Gage Information					
Date	Gage	Time	WS Elev	Min Pool	Difference
20151106	Mel Price Upper	7:00	419.01	412.50	6.51
20151106	Mel Price Upper	11:00	419.09	412.50	6.59
20151106	Alton, IL	7:00	419.10	414.00	5.10
20151106	Alton, IL	11:00	419.14	414.00	5.14
20151106	Grafton, IL	7:00	419.68	418.00	1.68
20151106	Grafton, IL	11:00	419.69	418.00	1.69

HYDROGRAPHIC SURVEYS	
MILE: 200.9 - 202.8	
PLATE NUMBER	
49	



Mississippi River Gage Information					
Date	Gage	Time	WS Elev	Min Pool	Difference
20151106	Mel Price Upper	7:00	419.01	412.50	6.51
20151106	Mel Price Upper	11:00	419.09	412.50	6.59
20151106	Alton, IL	7:00	419.10	414.00	5.10
20151106	Alton, IL	11:00	419.14	414.00	5.14
20151106	Grafton, IL	7:00	419.68	418.00	1.68
20151106	Grafton, IL	11:00	419.69	418.00	1.69