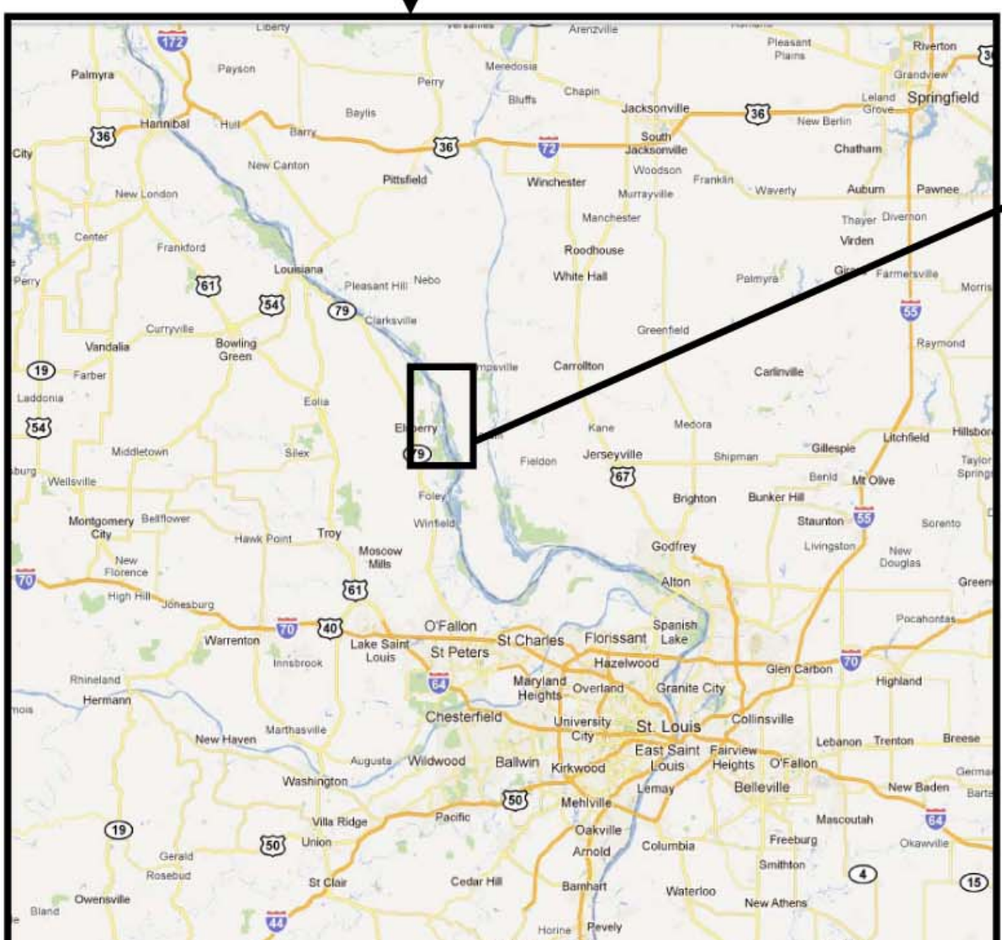

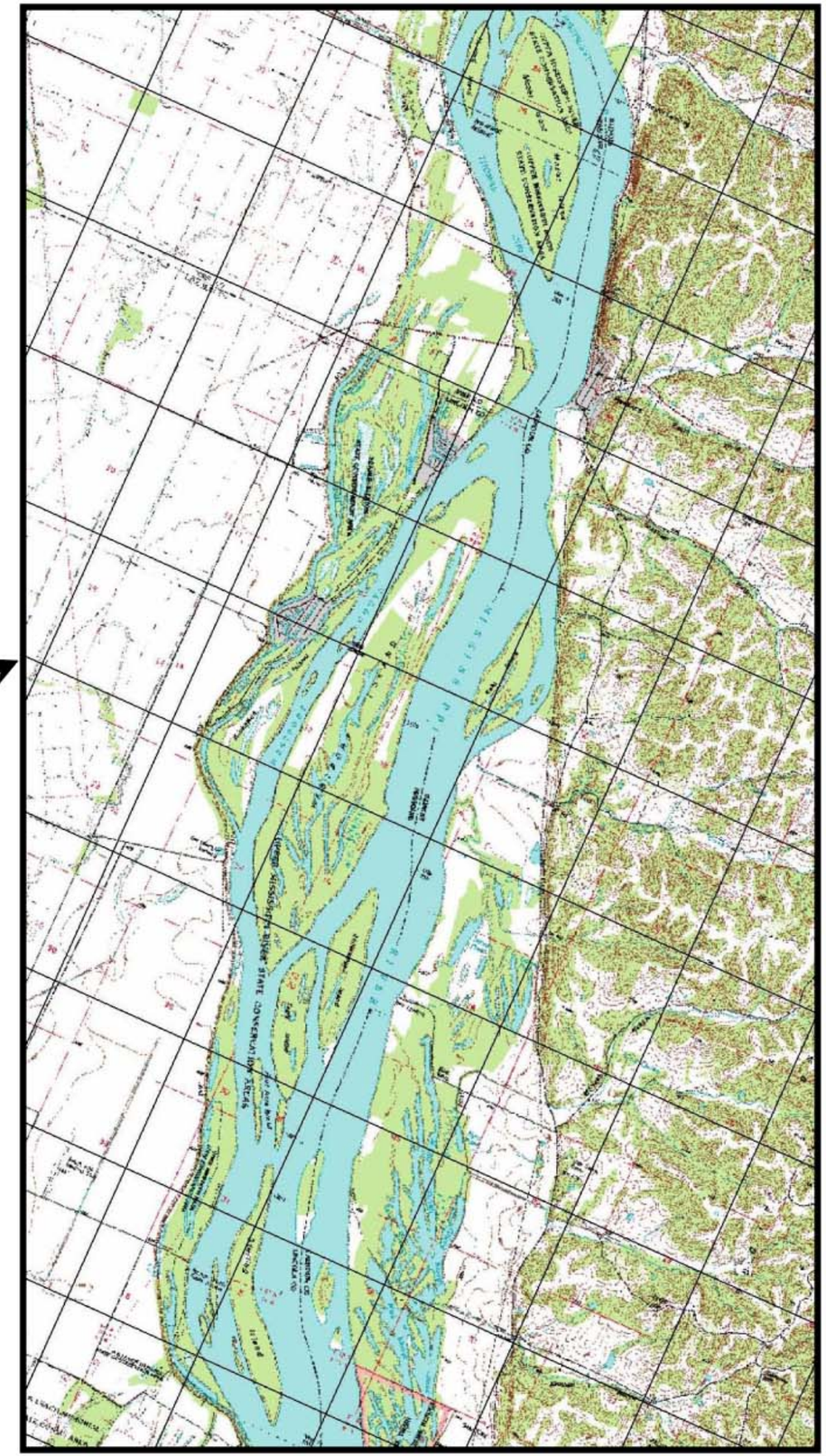

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APPLIED RIVER ENGINEERING CENTER

DESIGNED BY: A COX	REVIEWED BY: E BRAUER, P.E.	SURVEY DATE:
DRAWN BY: A COX		CHECKED BY: J BROWN, P.E.
SUBMITTED: A COX		APPROVED: R DAVINROY, P.E.
FILE NAME: ...Westport/PLATES		PLOT DATE: 11/22/2011

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

Westport
Location and Vicinity Map

PLATE NUMBER
1

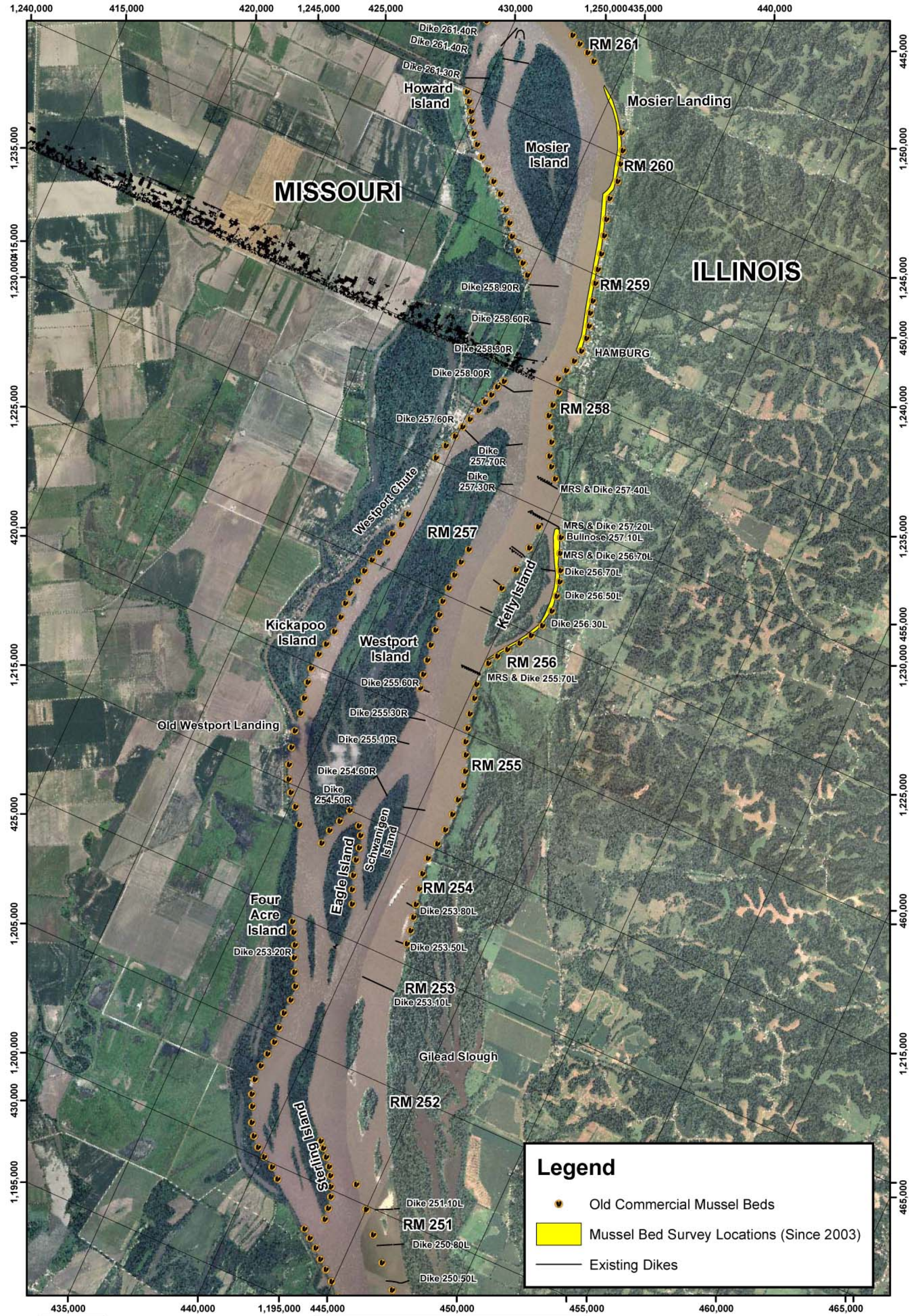

PLATE NUMBER 2

0 1,500 3,000 6,000
Feet

Mussel Bed Locations

2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 2003
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates	PLOT DATE: 01/05/2012	

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St. Louis District

PLATE NUMBER 3

0 1,500 3,000 6,000
Feet

Dike Locations

2009 AERIAL PHOTOGRAPH

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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE:
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates	PLOT DATE: 12/01/2012	

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St. Louis District

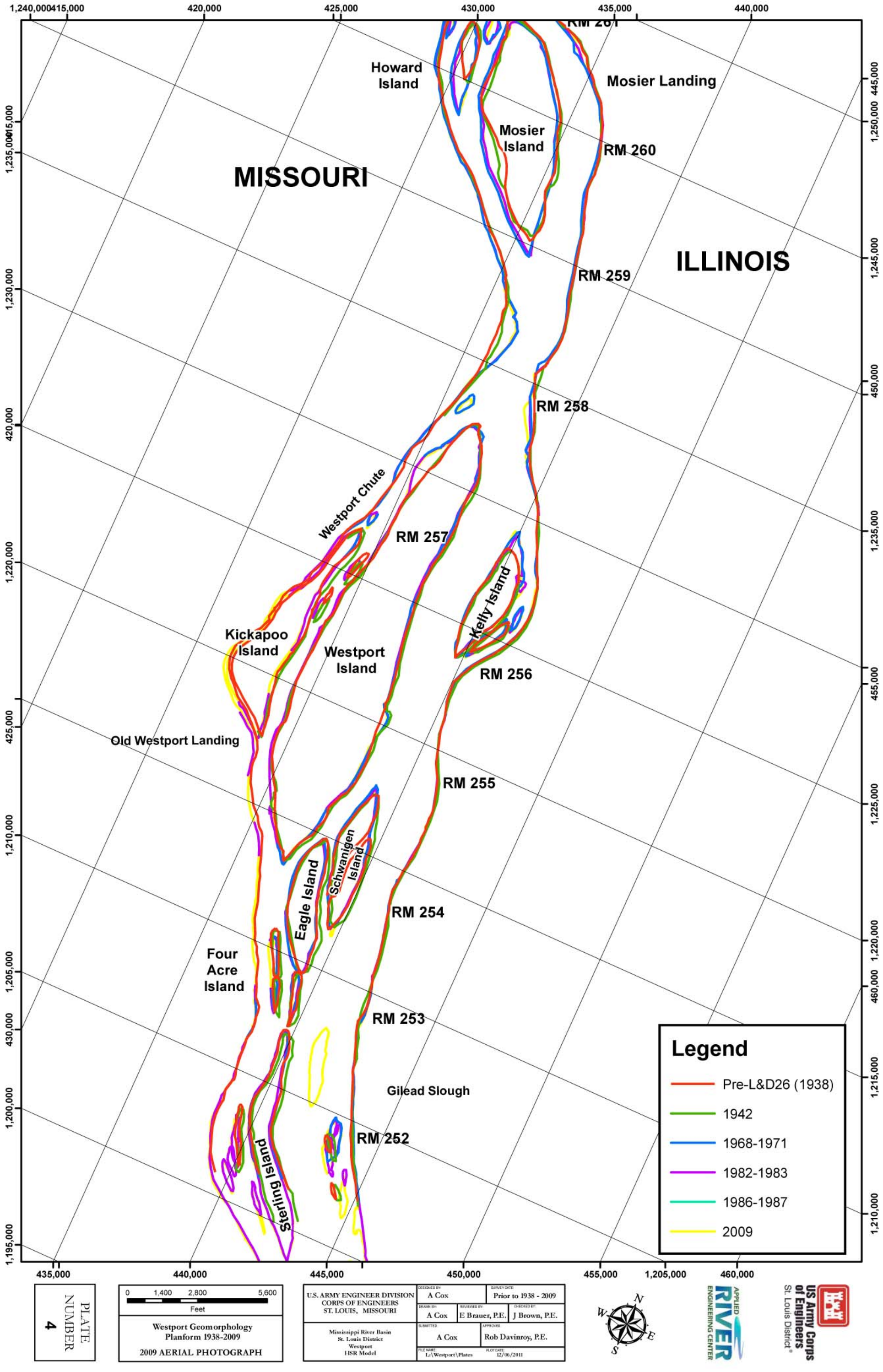

PLATE NUMBER 4

0 1,400 2,800 5,600 Feet

Westport Geomorphology
Planform 1938-2009
2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: Prior to 1938 - 2009
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/06/2011

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St. Louis District

PLATE NUMBER 5

0 1,500 3,000 6,000
Feet

Pre-Lock & Dam 26 (1938)
Aerial Photographs
2009 AERIAL PHOTO (COLOR)

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: Pre-1938
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/01/2011

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U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY A Cox	DRAWN BY A Cox	SUBMITTED A Cox
Mississippi River Basin St. Louis District Westport HSR Model	REVIEWED BY E Brauer, P.E.	APPROVED Rob Davinroy, P.E.	FILE NAME L:\Westport\Plates
	SURVEY DATE 1942	CHECKED BY J Brown, P.E.	PLOT DATE 12/01/2011

0 1,500 3,000 6,000 Feet

1942 Map Overlay
2009 AERIAL PHOTO (COLOR)

PLATE NUMBER
6

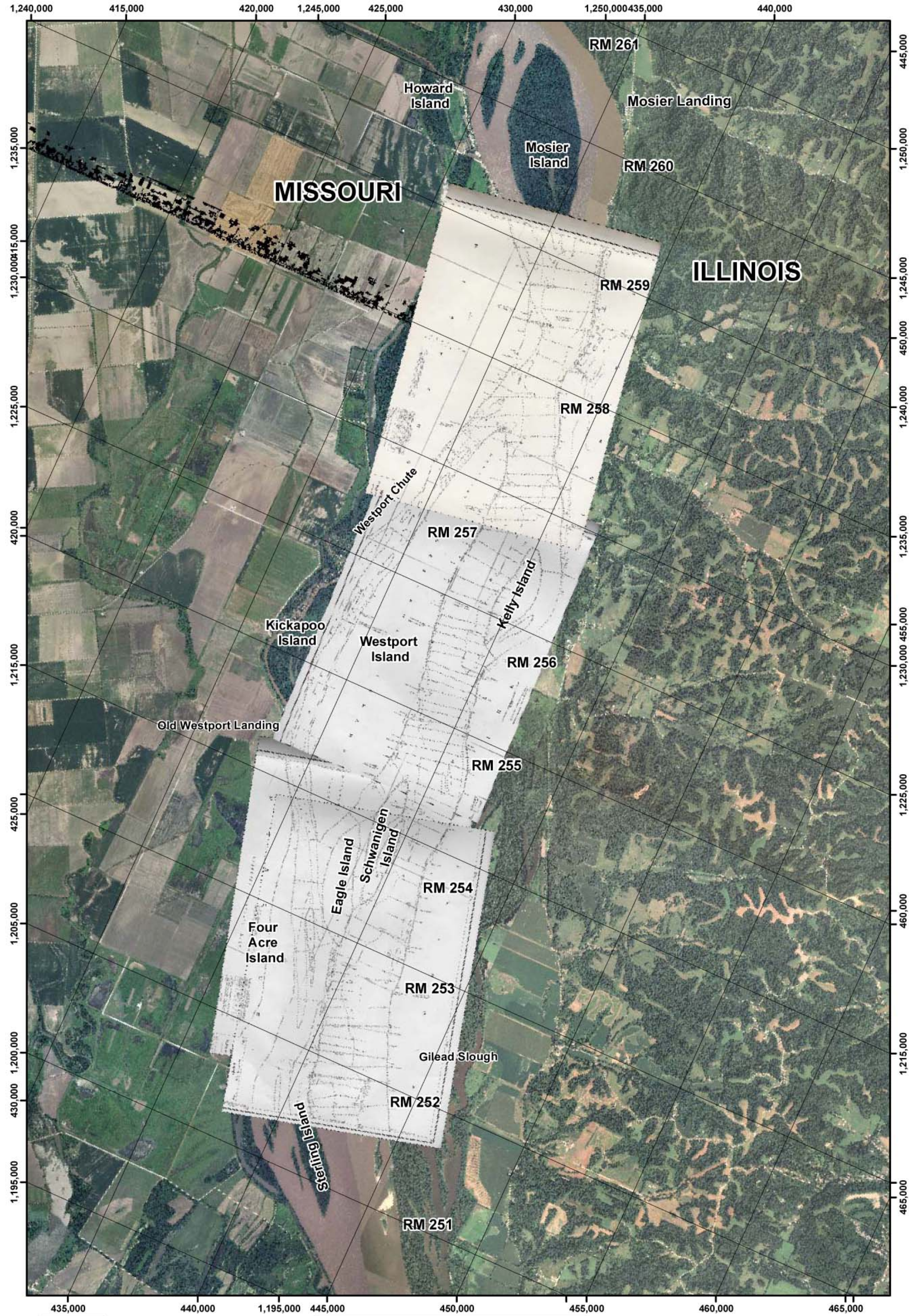

PLATE NUMBER 7

0 1,500 3,000 6,000
Feet

1939 - 1956 Hydrographic Survey Overlay
2009 AERIAL PHOTO (COLOR)

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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 1939-1956
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/01/2011

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St. Louis District

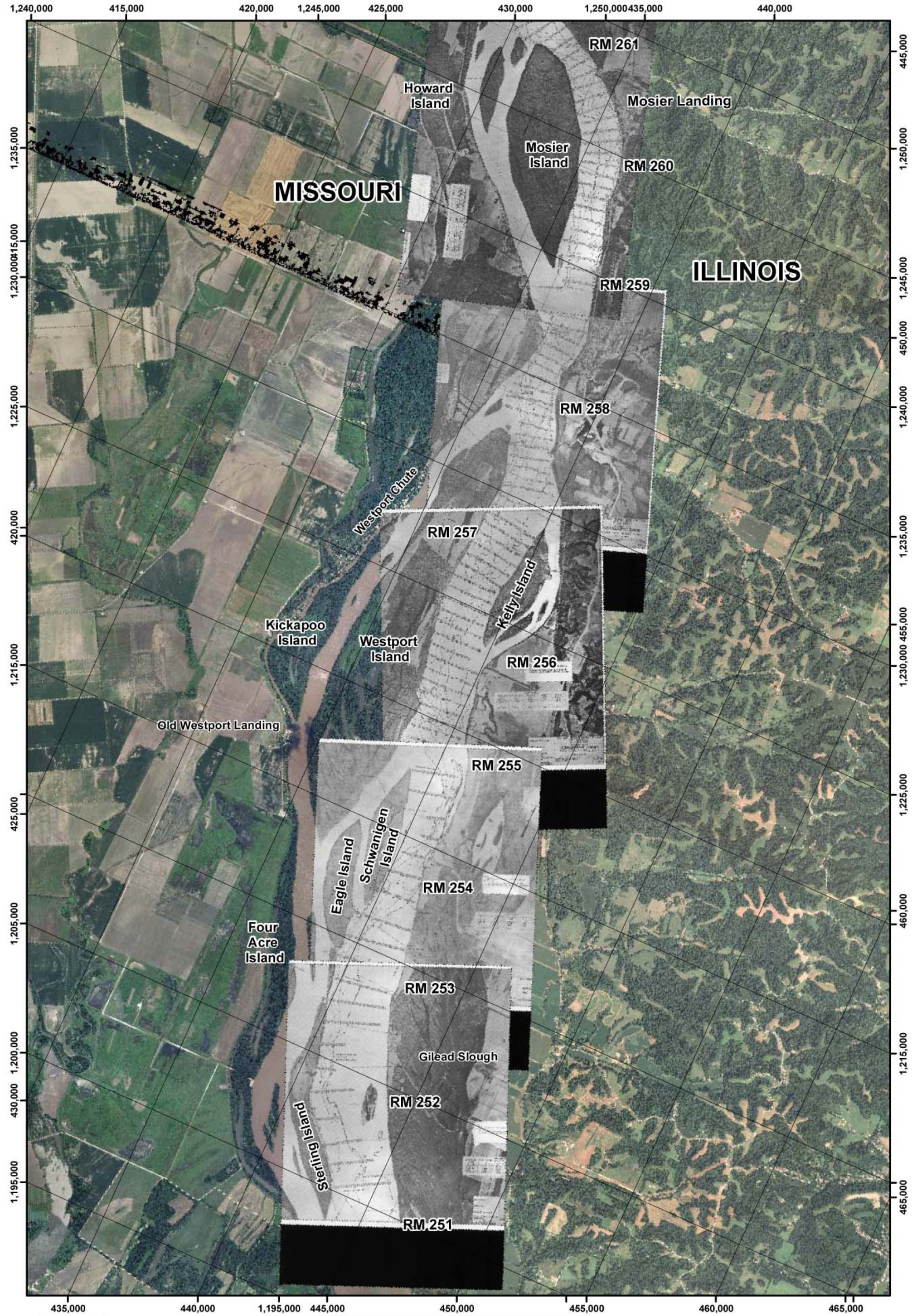

PLATE NUMBER 8

0 1,500 3,000 6,000
Feet

1968 - 1971 Hydrographic Survey Overlay
2009 AERIAL PHOTO (COLOR)

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 1968-1971
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 12/01/2011

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US Army Corps of Engineers St. Louis District

PLATE NUMBER 6

0 1,500 3,000 6,000
Feet

1976 - 1977 Hydrographic Survey Overlay
2009 AERIAL PHOTO (COLOR)

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 1976-1977
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/01/2011

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St. Louis District

PLATE NUMBER 10

0 1,500 3,000 6,000
Feet

1982 - 1983 Hydrographic Survey Overlay
2009 AERIAL PHOTO (COLOR)

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CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 1982-1983
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/01/2011

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US Army Corps of Engineers
St. Louis District

PLATE NUMBER 11

0 1,500 3,000 6,000
Feet

1986 - 1987 Hydrographic Survey Overlay
2009 AERIAL PHOTO (COLOR)

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 1986-1987
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 12/01/2011

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US Army Corps of Engineers St. Louis District

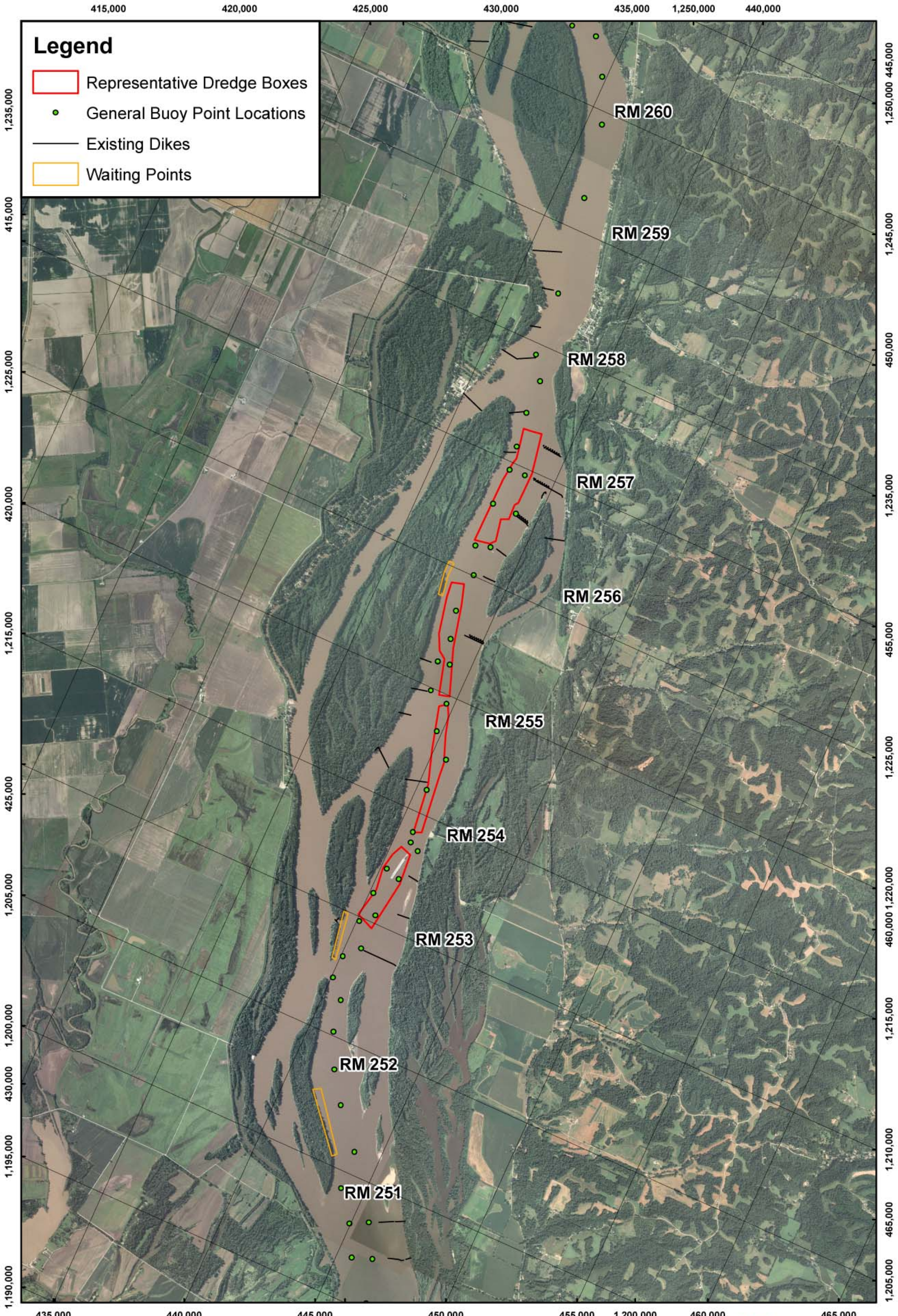

PLATE NUMBER 11B

0 1,500 3,000 6,000
Feet

Dredging Locations
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE:
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
	FILE NAME: L:\Westport\Plates		PLOT DATE: 04/8/2013

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St. Louis District

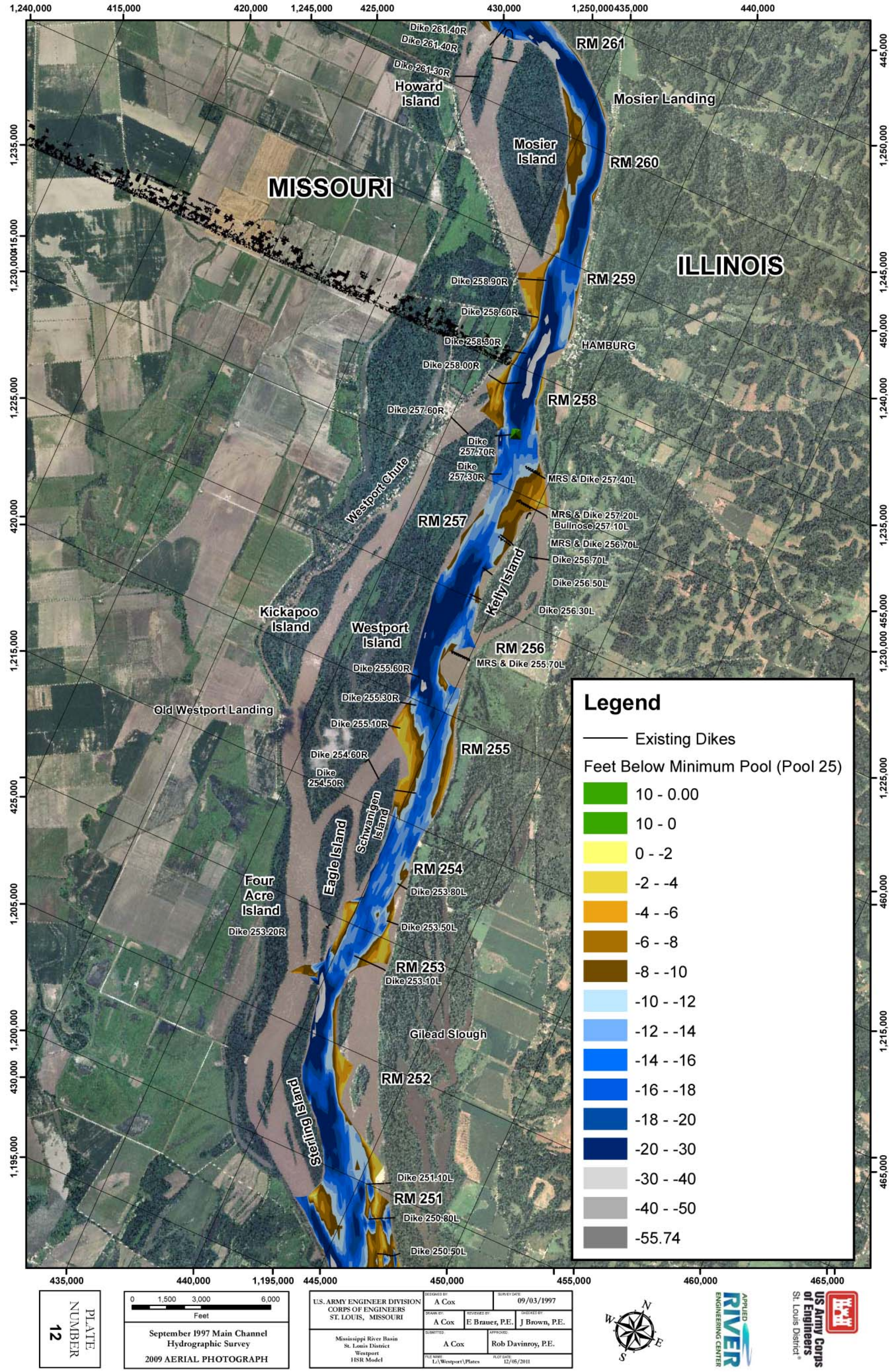

PLATE NUMBER 12

0 1,500 3,000 6,000
Feet

September 1997 Main Channel Hydrographic Survey
2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 09/03/1997
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates	PLOT DATE: 12/05/2011	

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US Army Corps of Engineers
St. Louis District

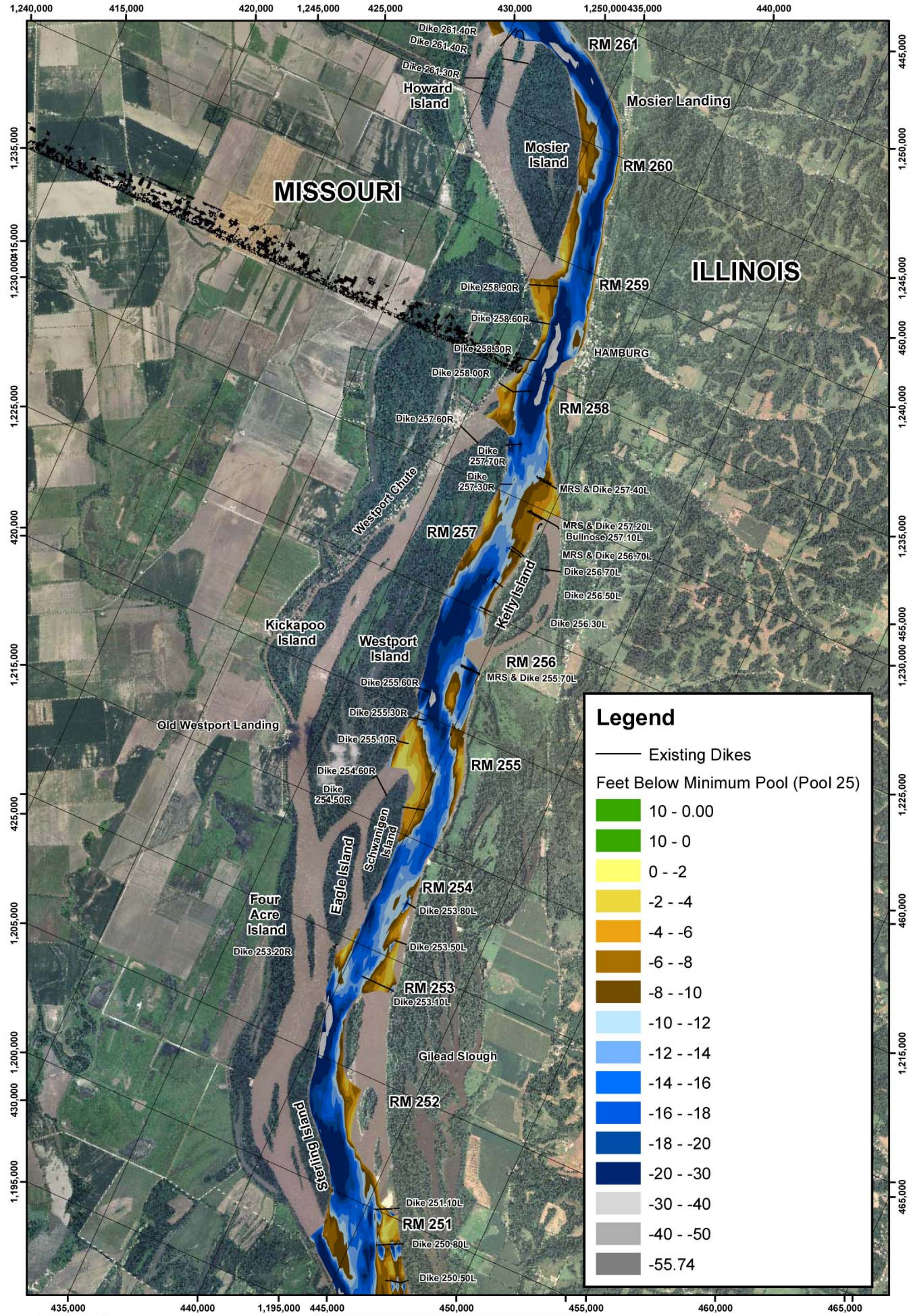

PLATE NUMBER 13

0 1,500 3,000 6,000
Feet

December 1999 Main Channel Hydrographic Survey
2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 12/08/1999
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/05/2011

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US Army Corps of Engineers
St. Louis District

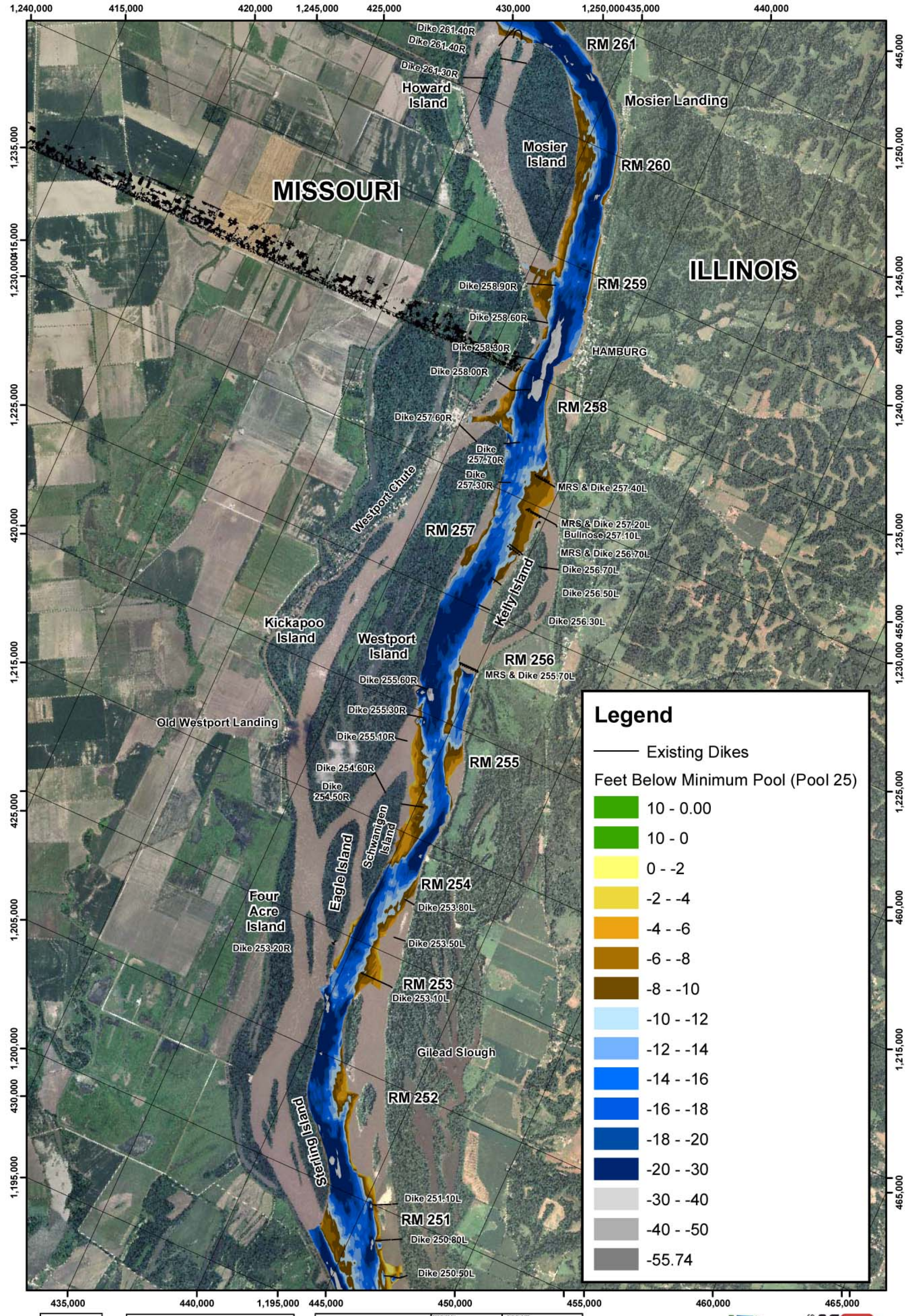

PLATE NUMBER 14

0 1,500 3,000 6,000 Feet

August 2004 Main Channel Hydrographic Survey

2009 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 08/23-24/2004
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/05/2011

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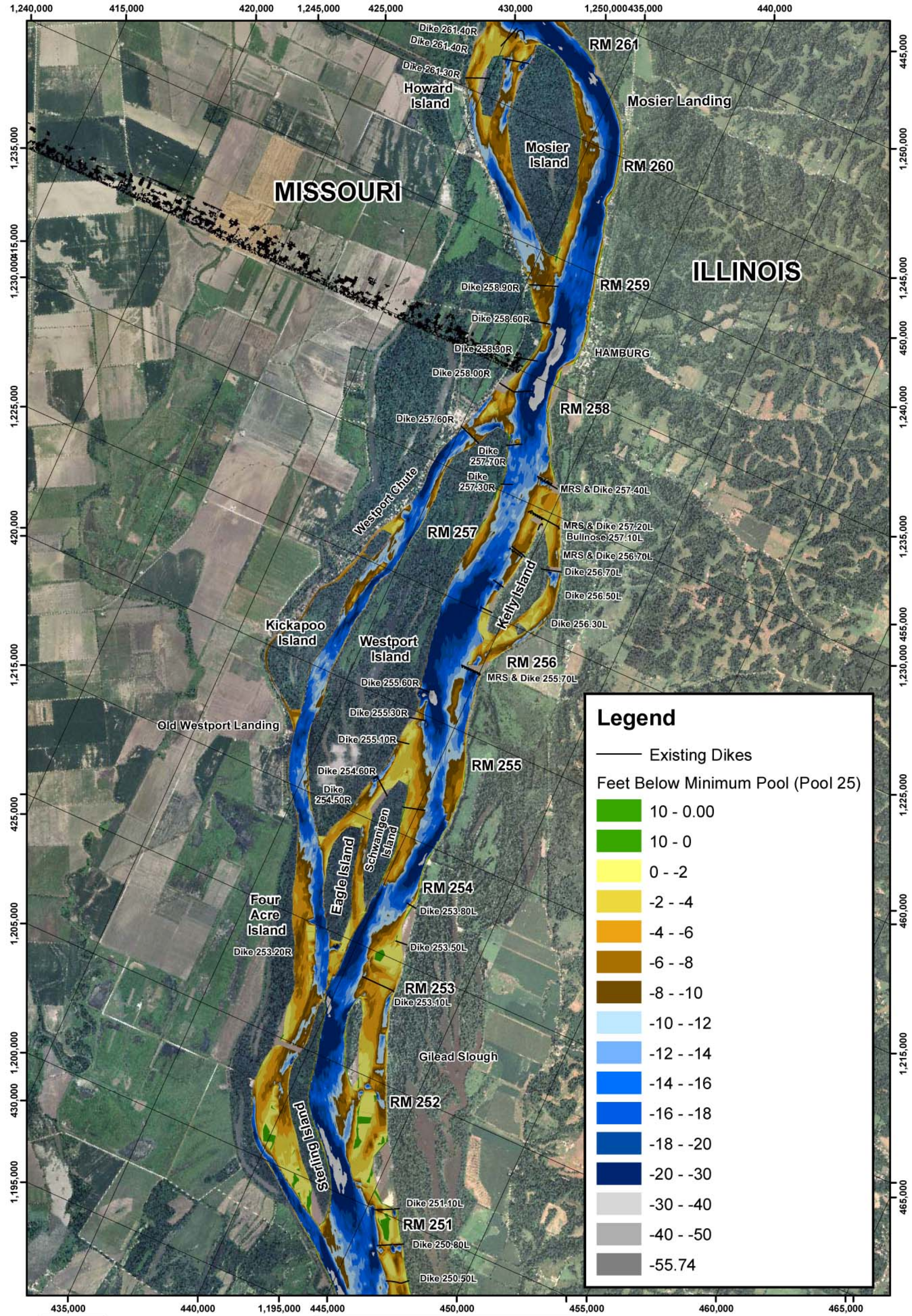

PLATE NUMBER 15

0 1,500 3,000 6,000
Feet

September 2007 Main Channel &
September 2006 Side Channel
Hydrographic Survey
2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 09/2007 Main 09/2006 Side
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates	PLOT DATE: 12/05/2011	

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St. Louis District

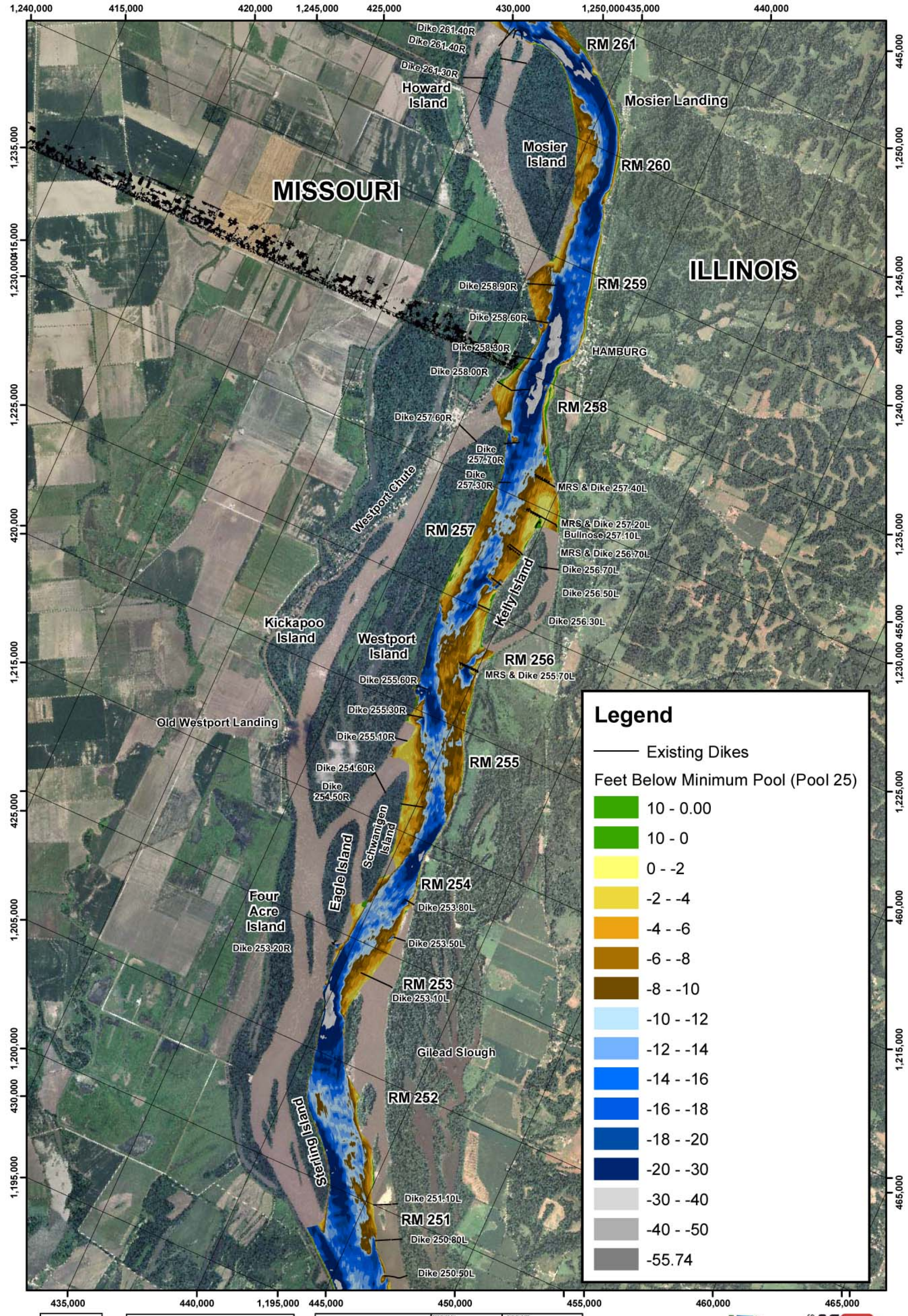

PLATE NUMBER 16

0 1,500 3,000 6,000
Feet

July-August 2011 Main Channel Hydrographic Survey

2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 07-08/2011
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SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/05/2011

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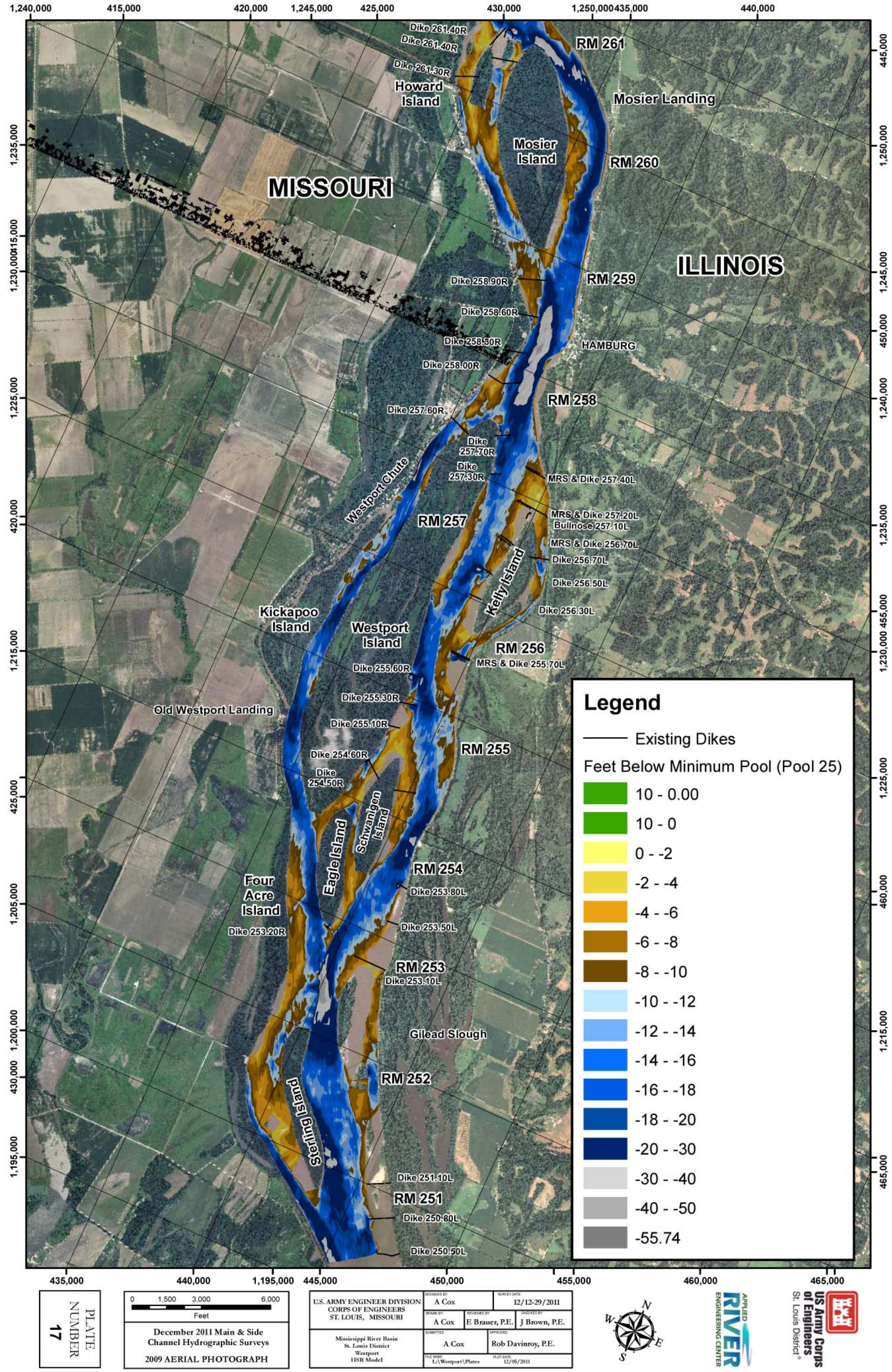

PLATE NUMBER 17

December 2011 Main & Side Channel Hydrographic Surveys

2009 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 12/12-29/2011
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/05/2011

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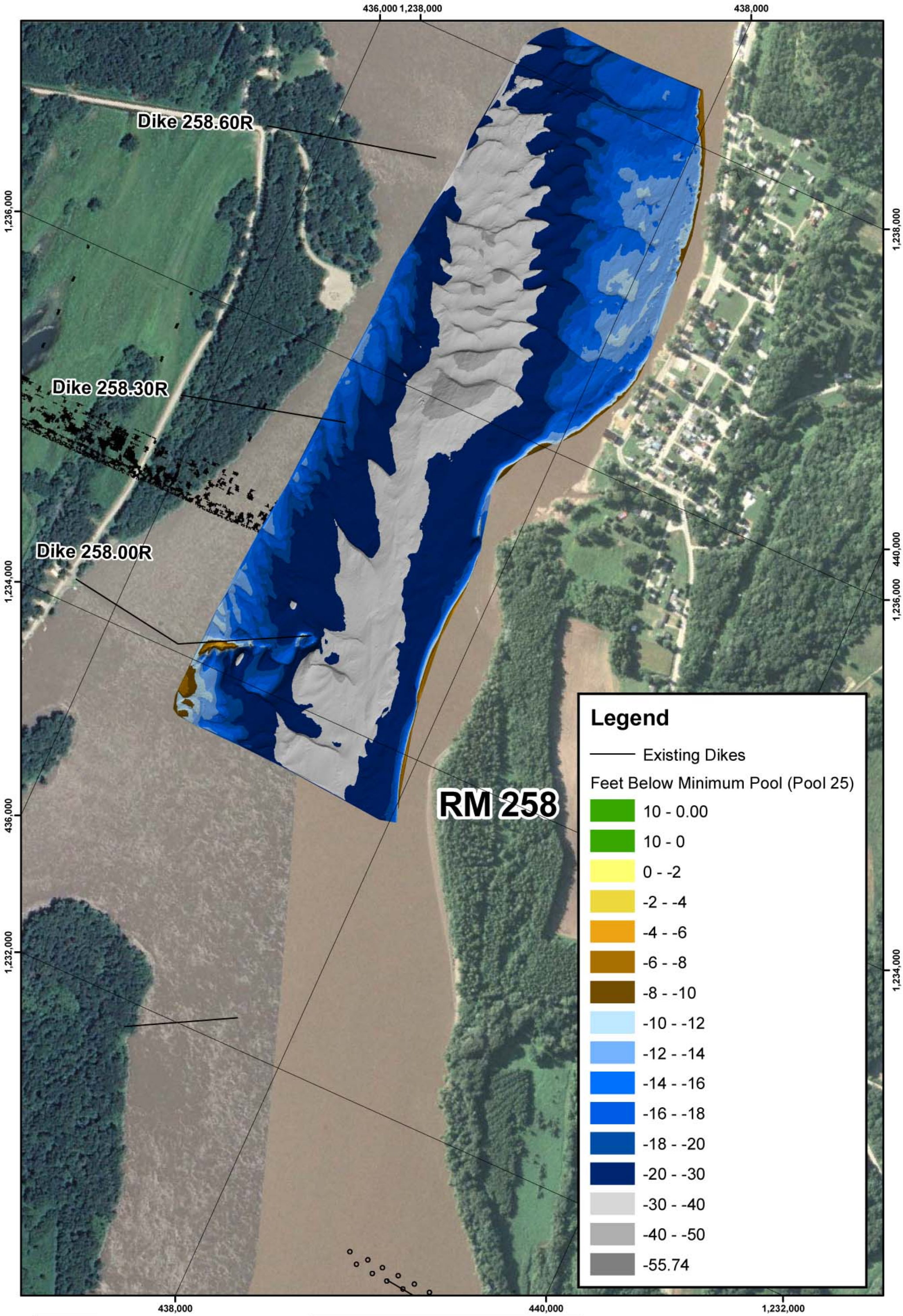

PLATE NUMBER 18

0 225 450 900
Feet

December 2011 Main Channel
Multibeam Hydrographic Survey

2009 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 12/27/2011
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 12/05/2011

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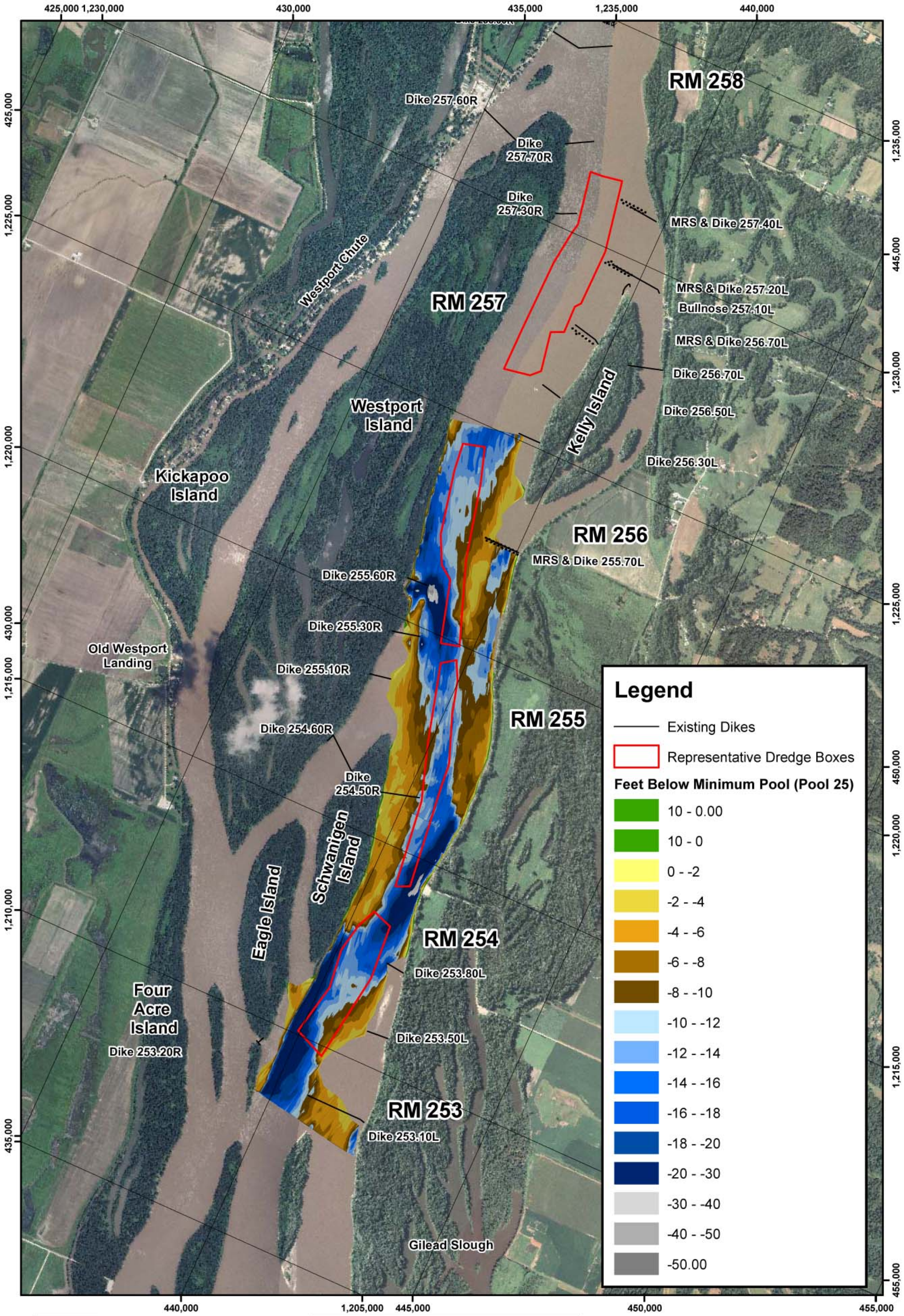

PLATE NUMBER 19

0 850 1,700 3,400
Feet

2007 Pre-Dredge Hydrographic Survey

2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 08/16 & 19/13/2007
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/06/2011

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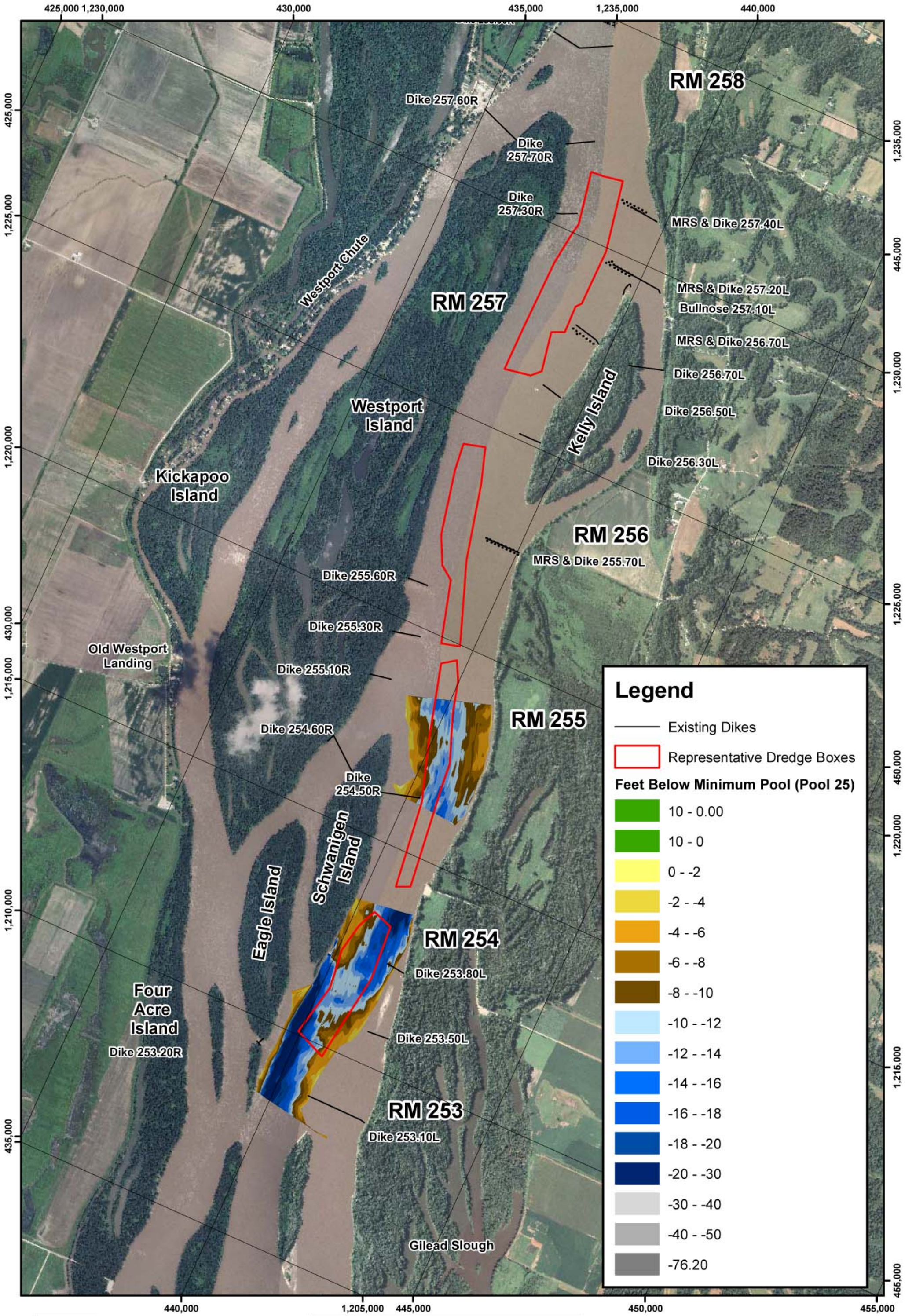

PLATE NUMBER 20

0 850 1,700 3,400
Feet

2008 Pre-Dredge Hydrographic Survey
2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 08/17/2008
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/06/2011

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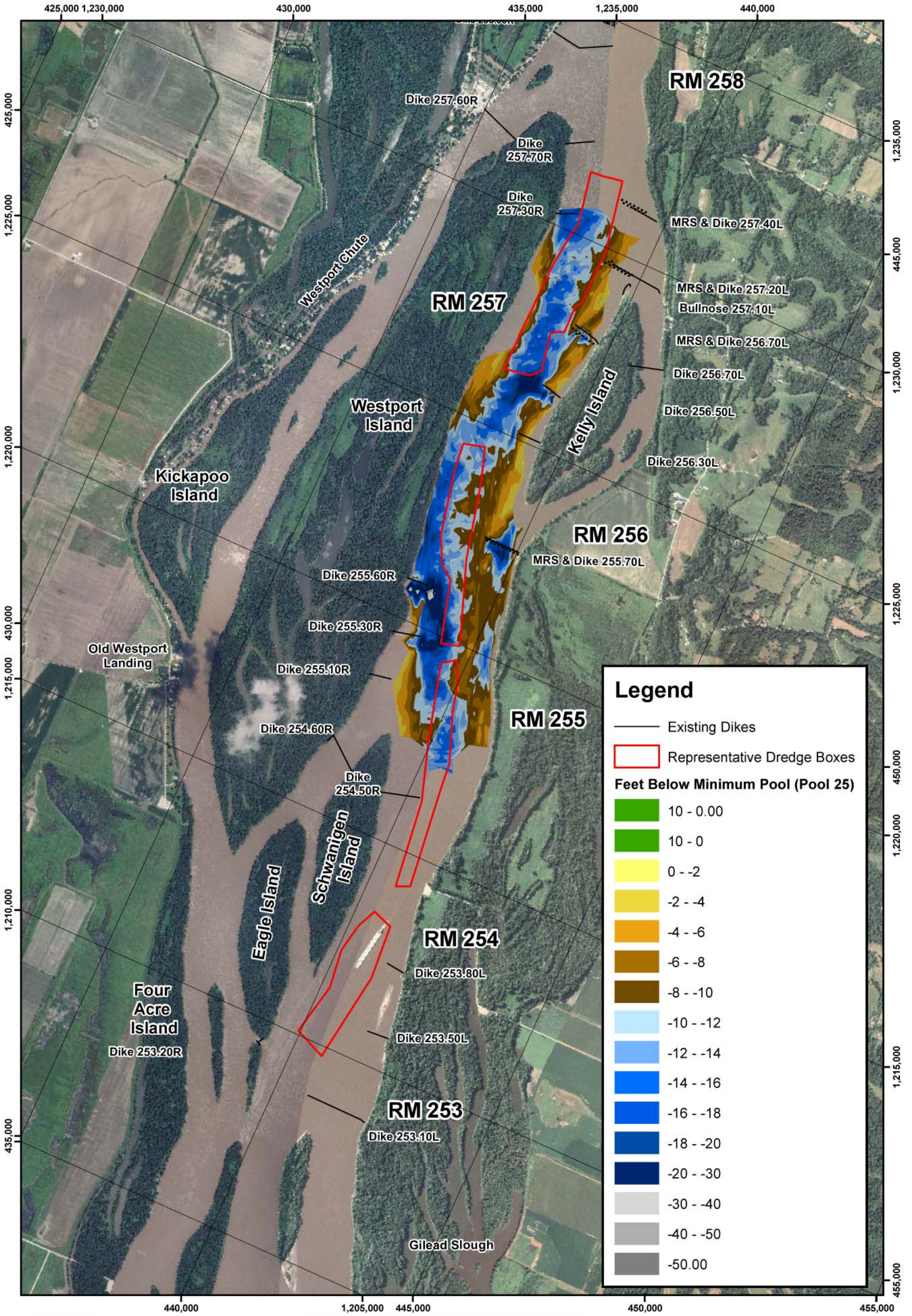

PLATE NUMBER 21

0 850 1,700 3,400
Feet

2009 Pre-Dredge Hydrographic Survey

2009 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 07/01/2009
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 12/06/2011

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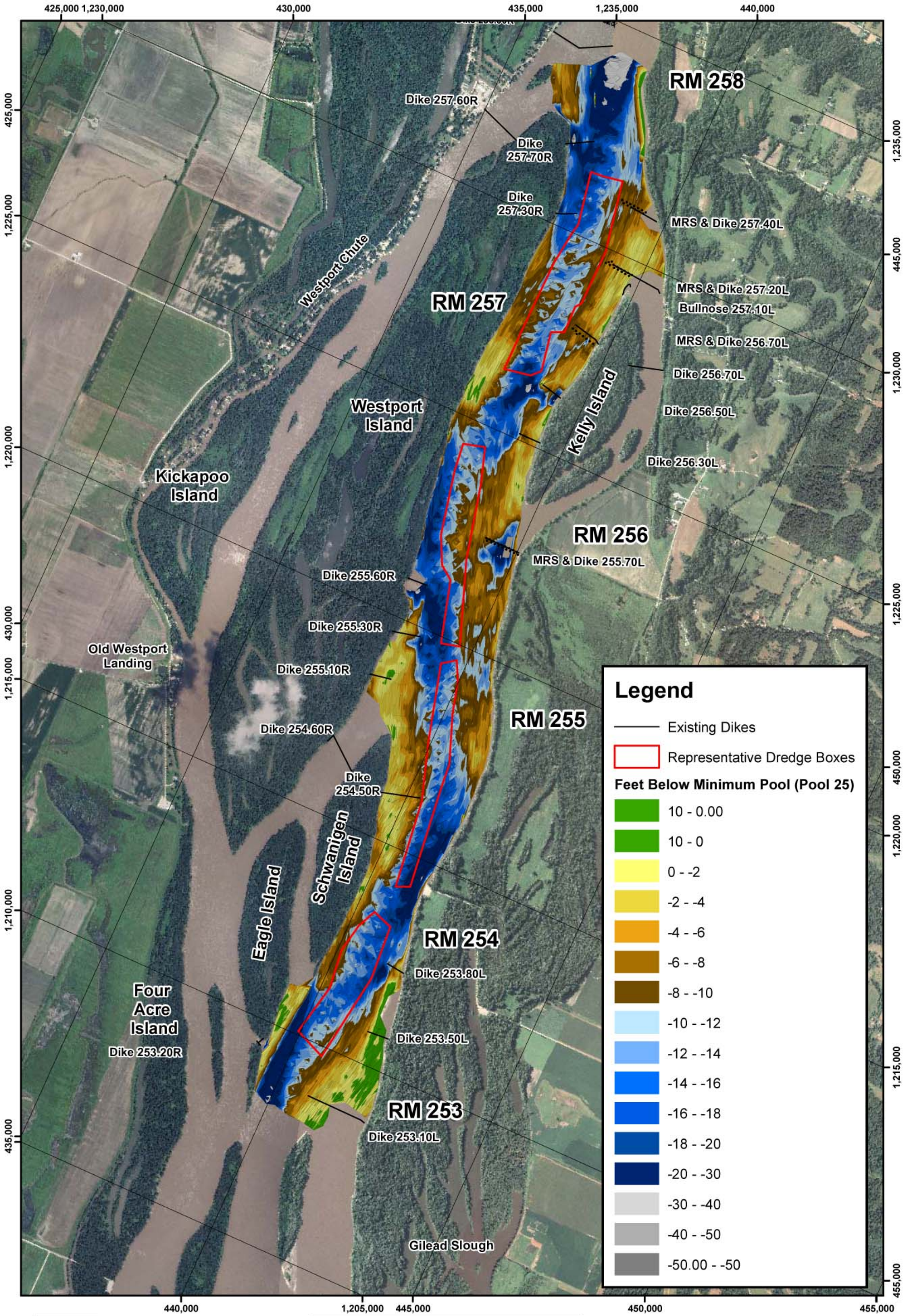

PLATE NUMBER 22

0 850 1,700 3,400
Feet

2010 Pre-Dredge Hydrographic Survey

2009 AERIAL PHOTOGRAPH

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 08/18/2010
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 12/06/2011

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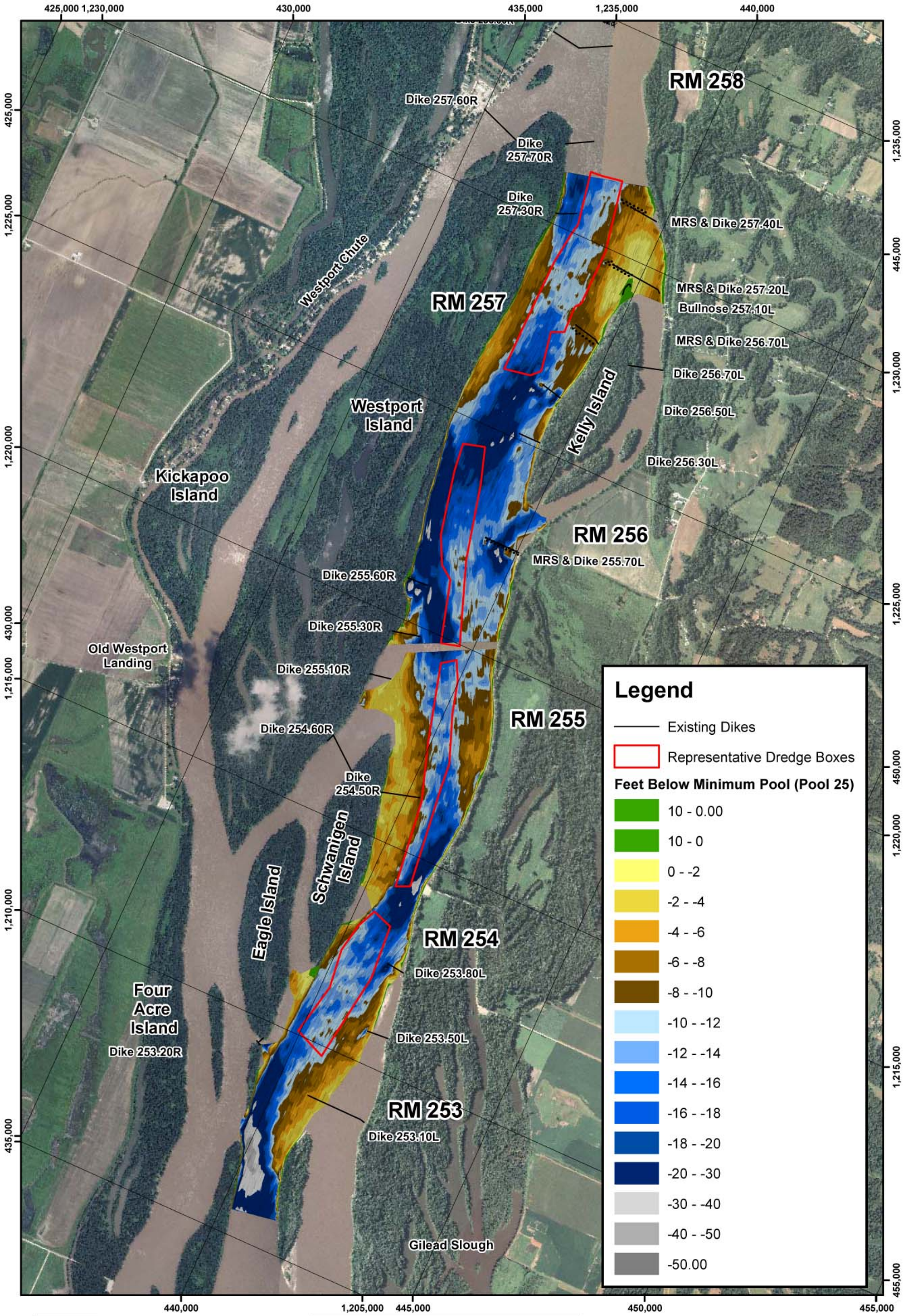

PLATE NUMBER 23

0 850 1,700 3,400
Feet

2011 Pre-Dredge Hydrographic Survey
2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 06/27 & 07/15/2011
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates	PLOT DATE: 12/06/2011	

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Looking upstream from RM 254.0

Looking downstream near RM 256.5
(Kickapoo Island on right, Westport Island on left side)

Dredge disposal sand bar in the main channel near Kelly Island and RM 257.0

Dredge disposal sand bars in the main channel near Kelly Island and RM 256.5

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DESIGNED BY: A COX	DRAWN BY: A COX	REVIEWED BY: E BRAUER, P.E.	SURVEY DATE:
SUBMITTED: A COX			CHECKED BY: J BROWN, P.E.
FILE NAME: ...Westport/PLATES			APPROVED: R DAVINROY, P.E.
			PLOT DATE: 12/29/2011

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

Westport
Field Photographs
Date Photographed: October 24, 2011

PLATE NUMBER
24

Looking from RDB at MRS's and Westport Island (approximately RM 257.0)

Looking upstream at Dike 256.5L and Kelly Island (dike is notched/submerged near bank)

Looking at the RDB and Dike 258.6R – there is a large round out just downstream

US Army Corps of Engineers
St. Louis District®

APPLIED RIVER ENGINEERING CENTER

N W E S

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A COX
DRAWN BY: A COX
REVIEWED BY: E BRAUER, P.E.
SURVEY DATE
CHECKED BY: J BROWN, P.E.
SUBMITTED: A COX
APPROVED: R DAVINROY, P.E.
FILE NAME: ...Westport/PLATES
PLOT DATE: 12/29/2011

Westport
Field Photographs
Date Photographed: October 24, 2011

PLATE NUMBER

25

Water flows from left to the right in this picture.

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St. Louis District®

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DESIGNED BY A COX			SURVEY DATE
DRAWN BY A COX	REVIEWED BY E BRAUER, P.E.	CHECKED BY J BROWN, P.E.	
SUBMITTED A COX		APPROVED R DAVINROY, P.E.	
FILE NAME ...Westport/PLATES		PLOT DATE 04/16/2012	

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

Westport
HSR Model Photograph

PLATE NUMBER

26

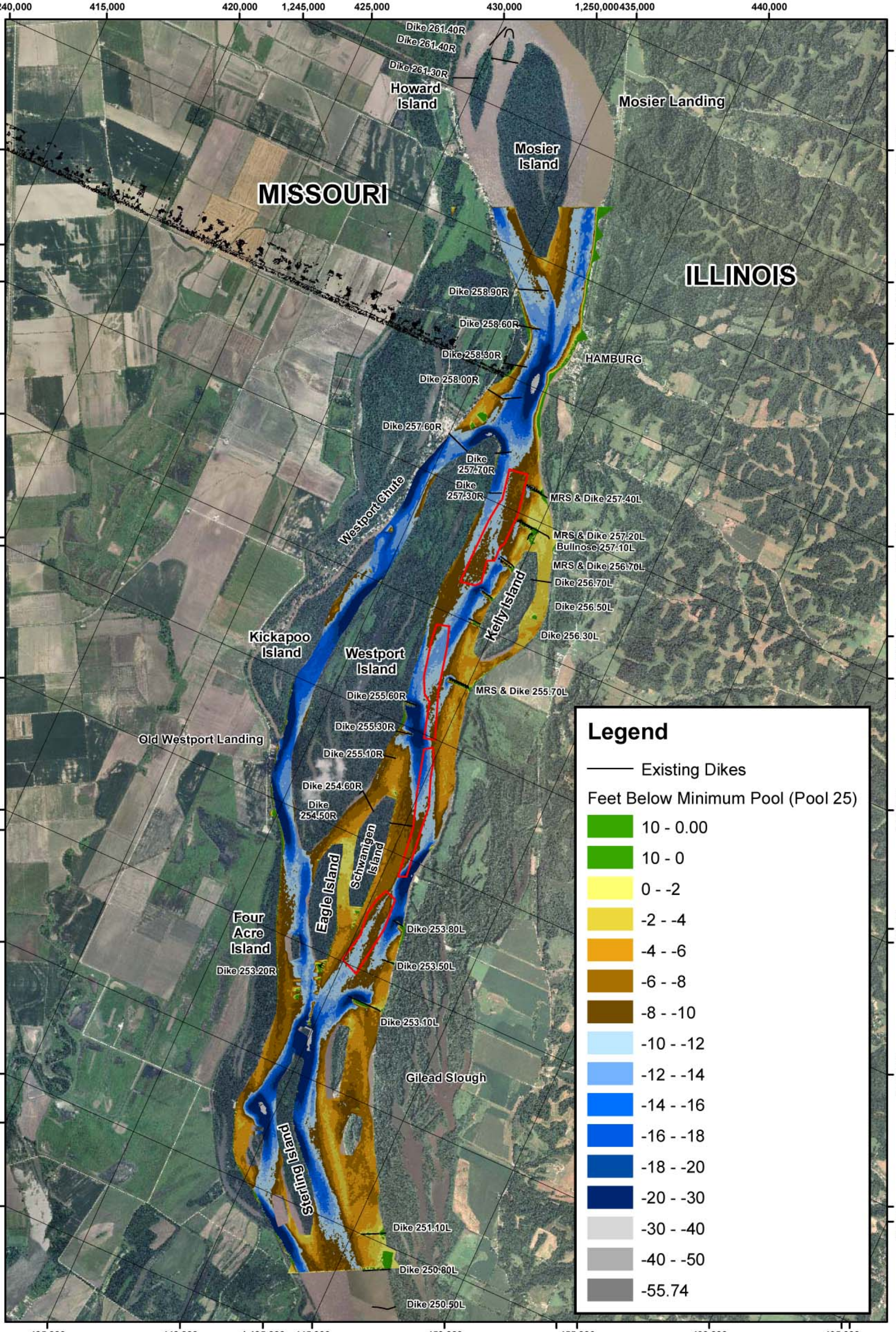

PLATE NUMBER 27

0 1,700 3,400 6,800
Feet

Model Replication Scan

2009 AERIAL PHOTOGRAPH

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 04/19/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates	PLOT DATE: 04/19/2012	

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St. Louis District

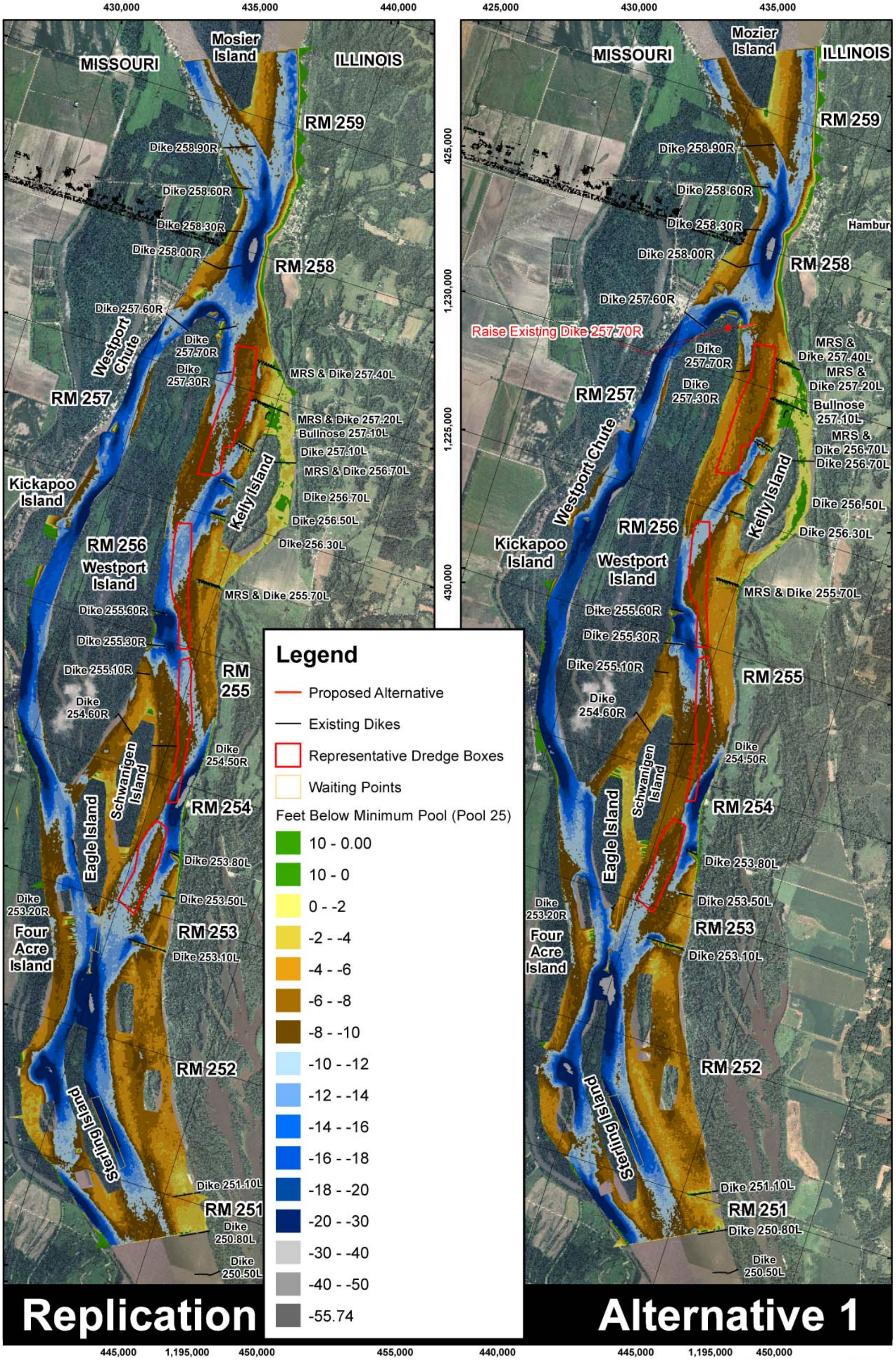

PLATE NUMBER 28

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 1
2009 Aerial Photograph

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CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 04/23/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012

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St. Louis District

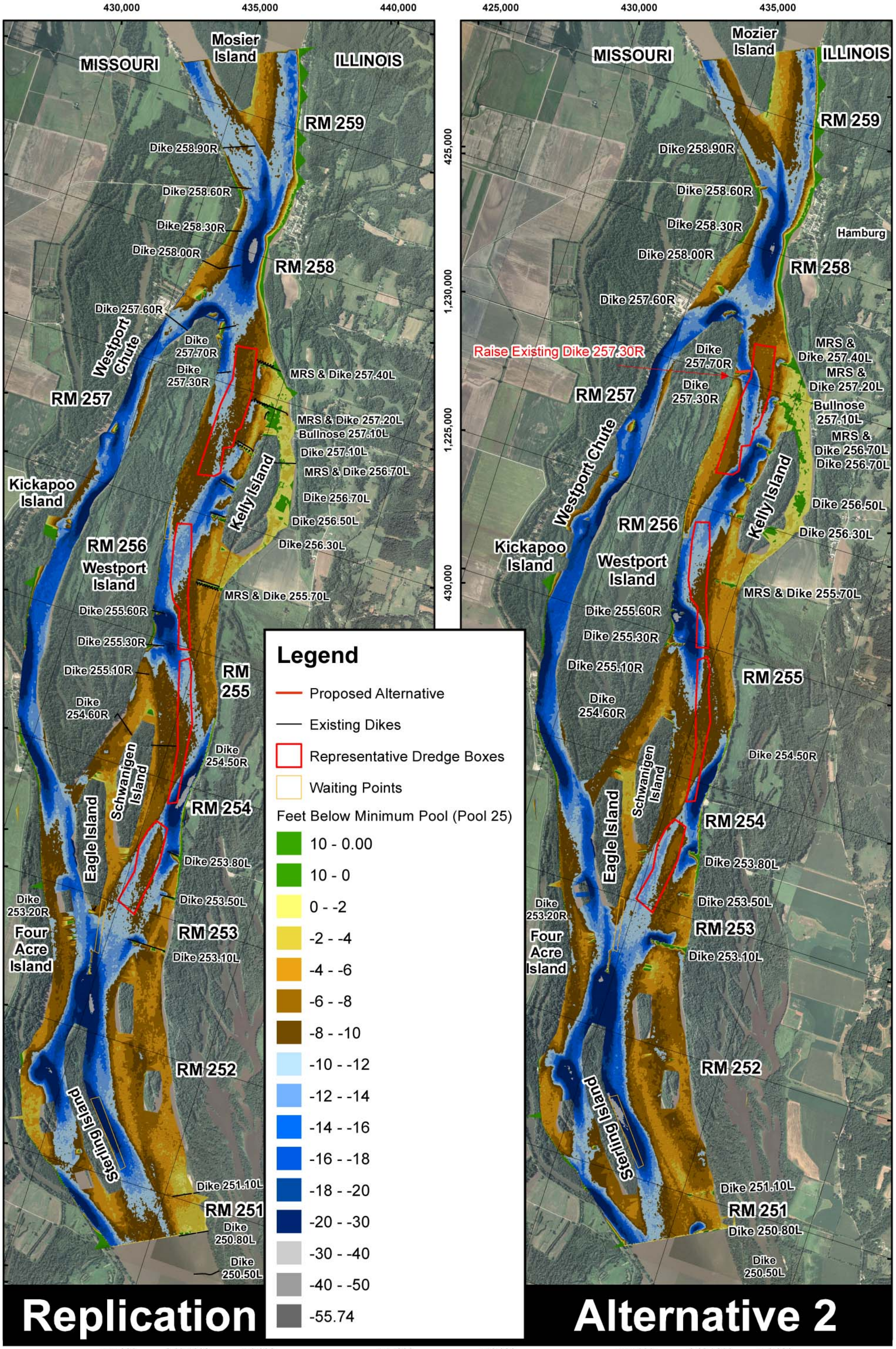

PLATE NUMBER 29

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 2
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 04/23/2012
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012

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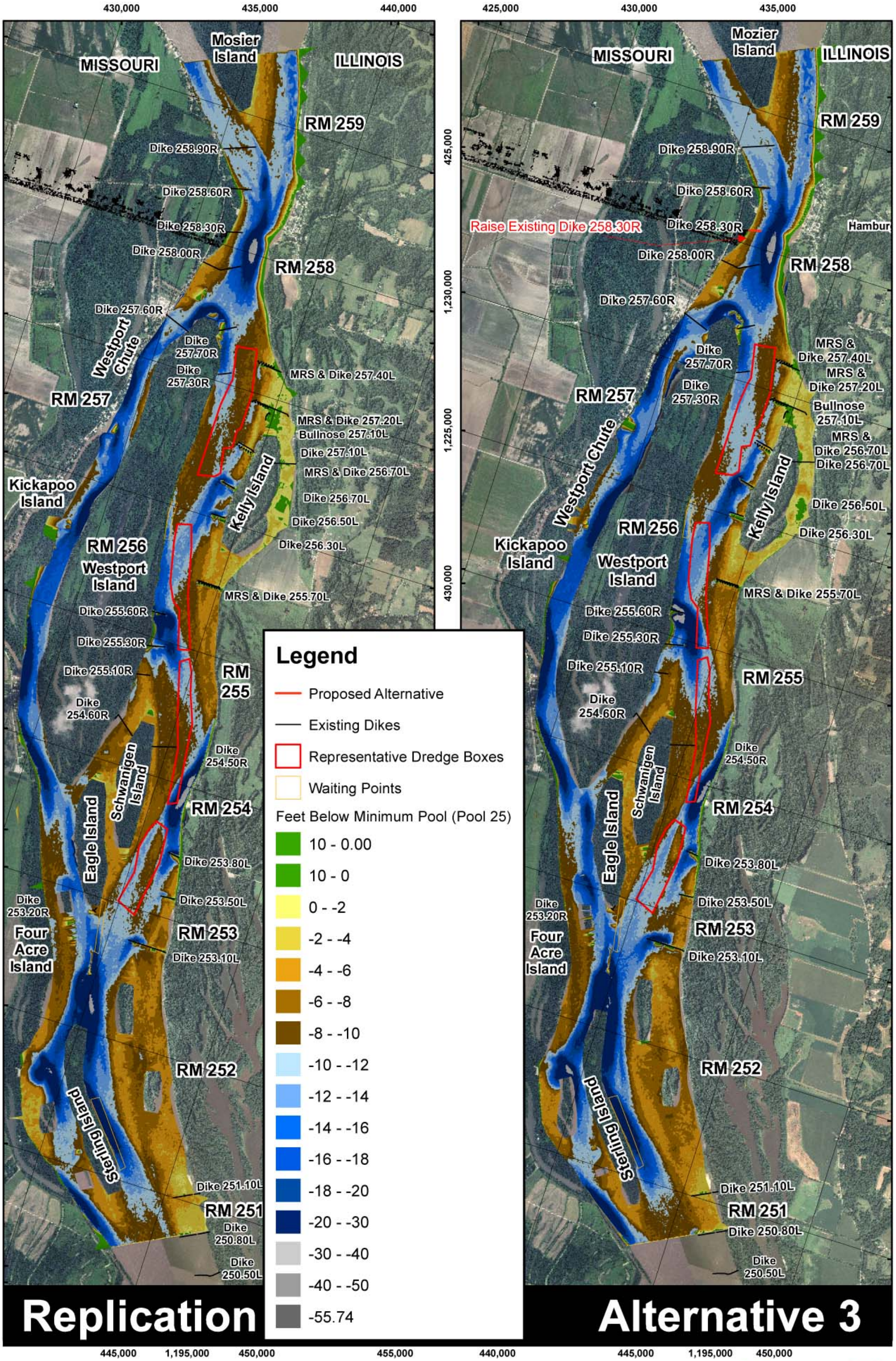

PLATE NUMBER 30

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 3
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 04/26/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012

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St. Louis District

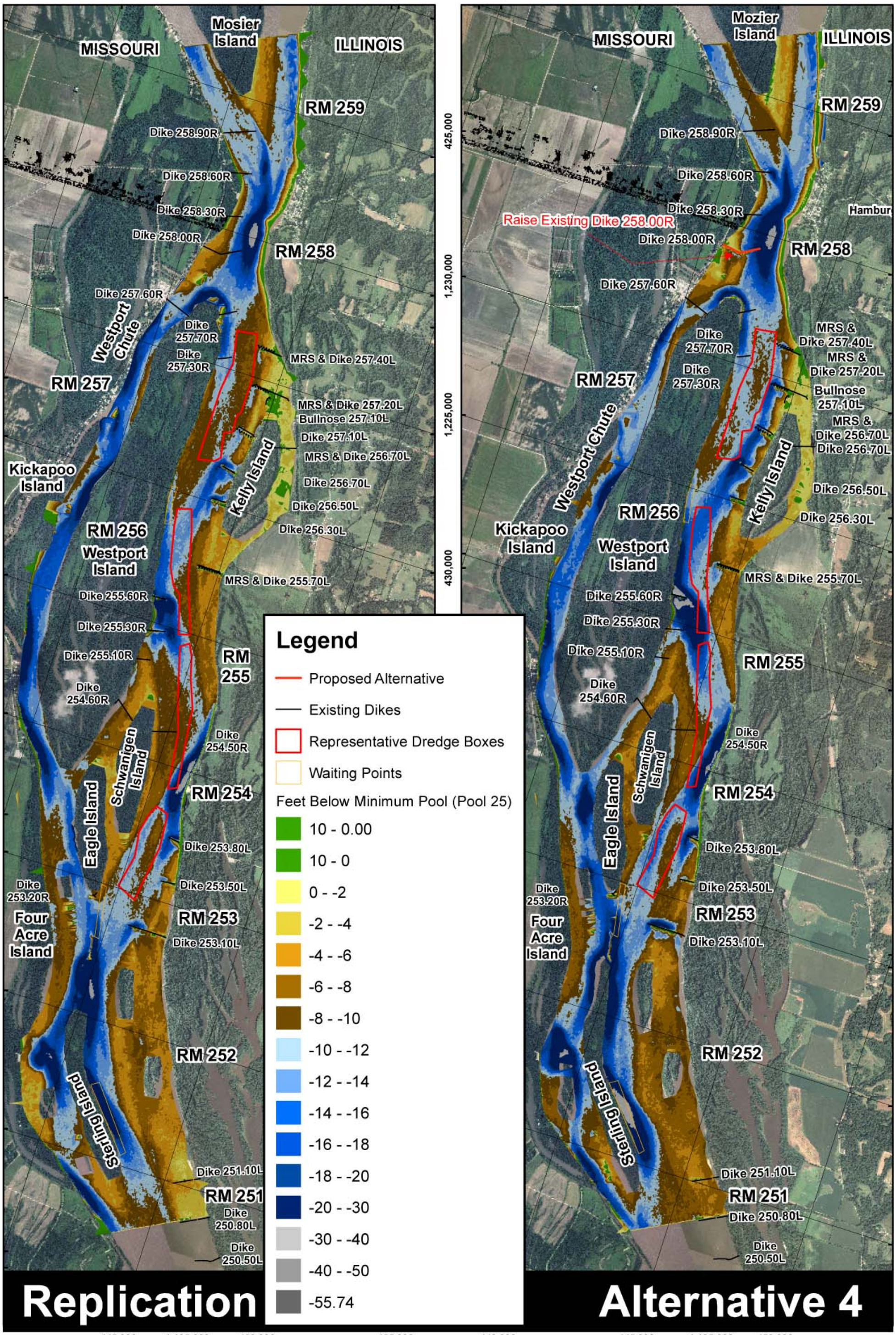

PLATE NUMBER 31

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 4
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 05/01/2012
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
	FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012

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US Army Corps of Engineers St. Louis District®

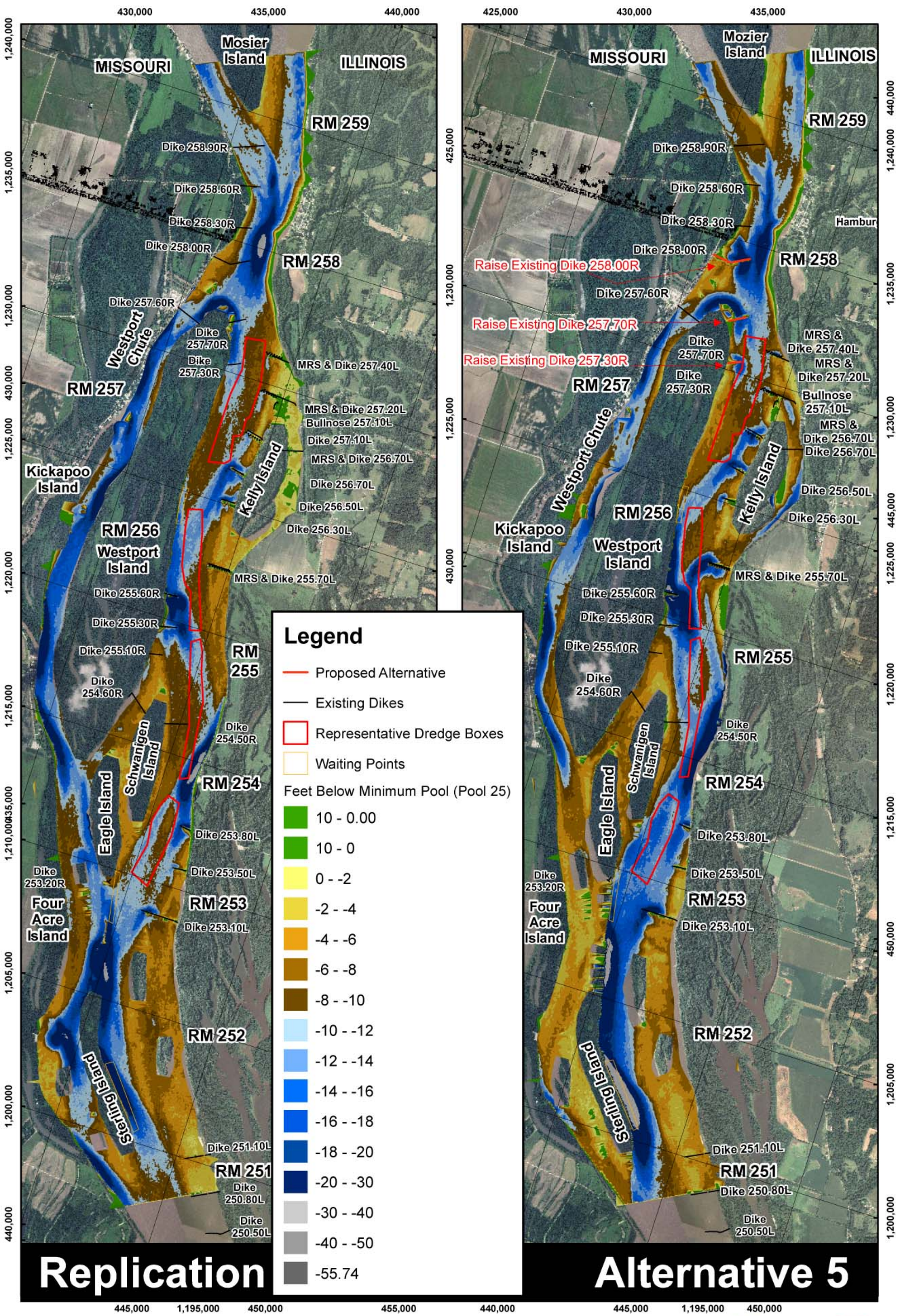

PLATE NUMBER 32

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 5
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 05/15/2012	
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.	
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012	

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St. Louis District

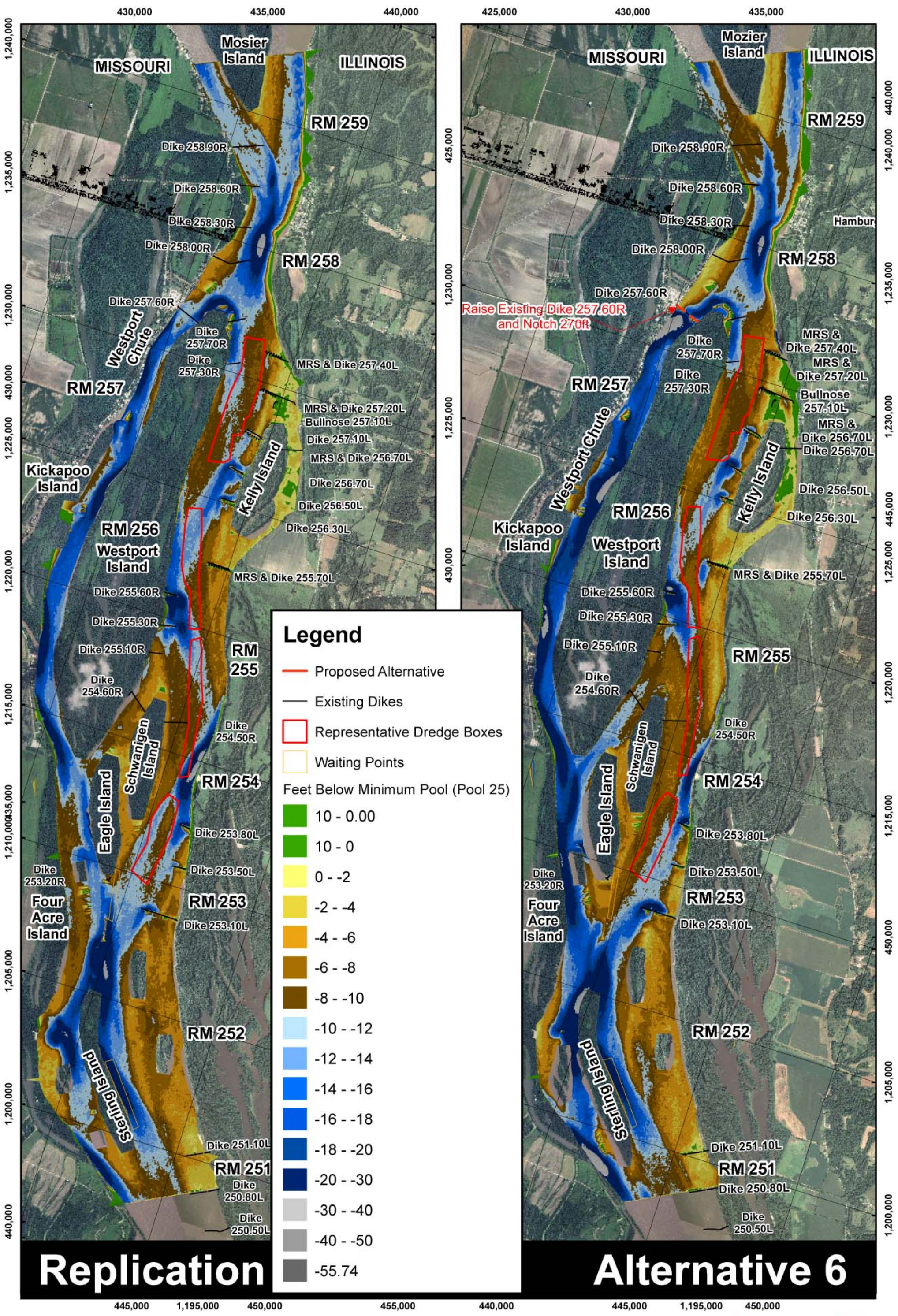

PLATE NUMBER 33

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 6
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 05/16/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012

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St. Louis District

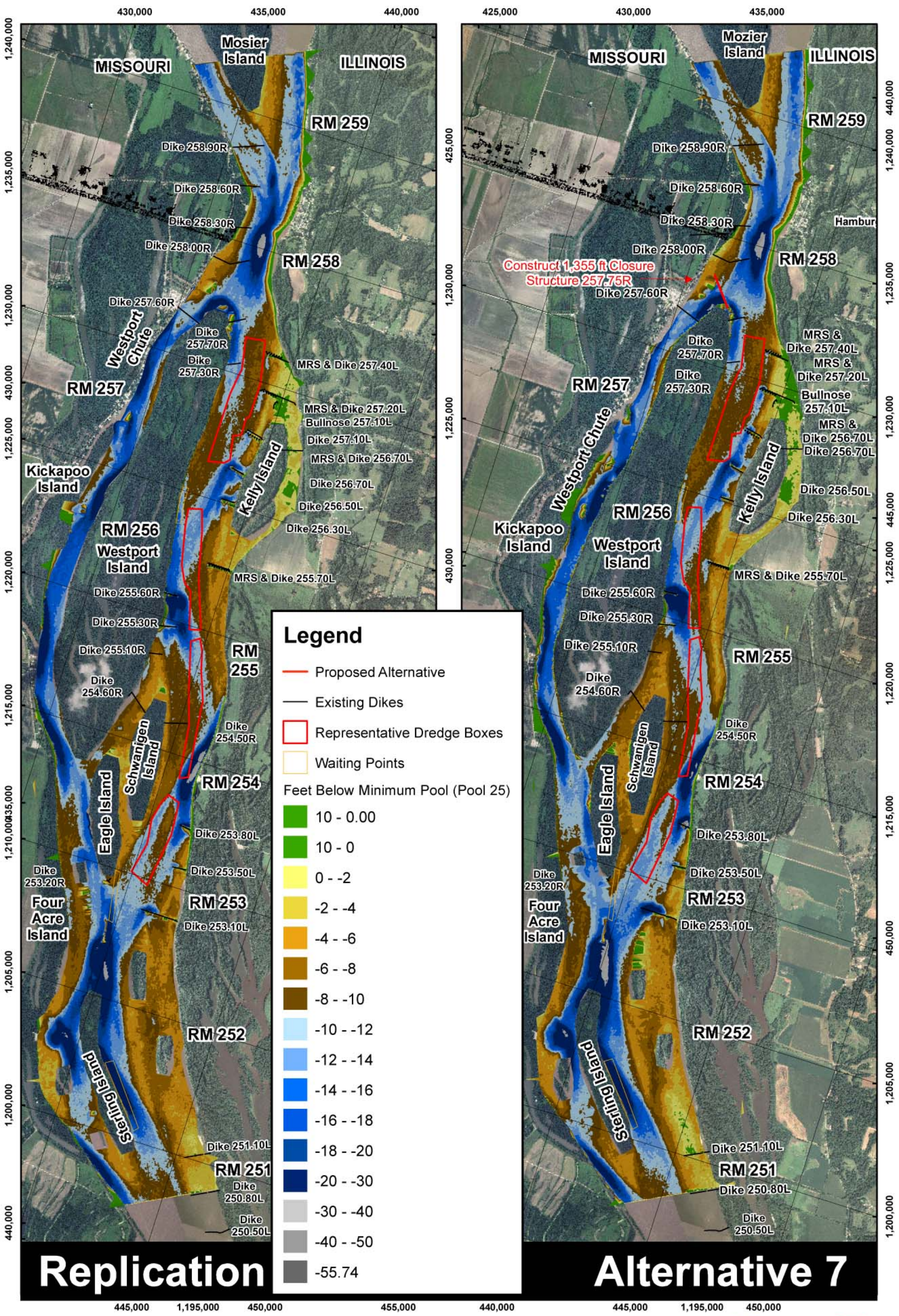

PLATE NUMBER 34

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 7
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 05/16/2012
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SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012

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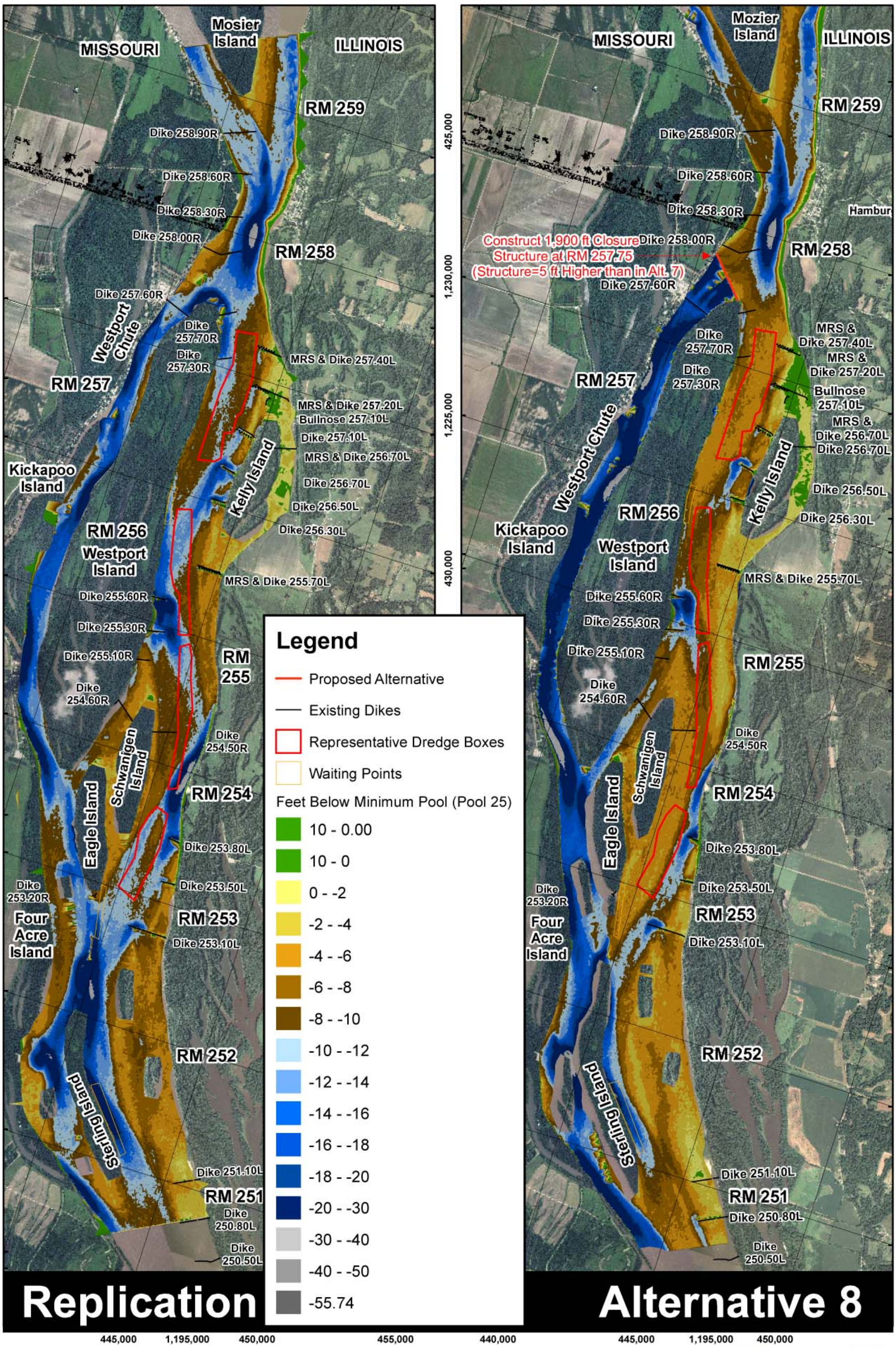

PLATE NUMBER 35

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 8
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 05/17/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/18/2012

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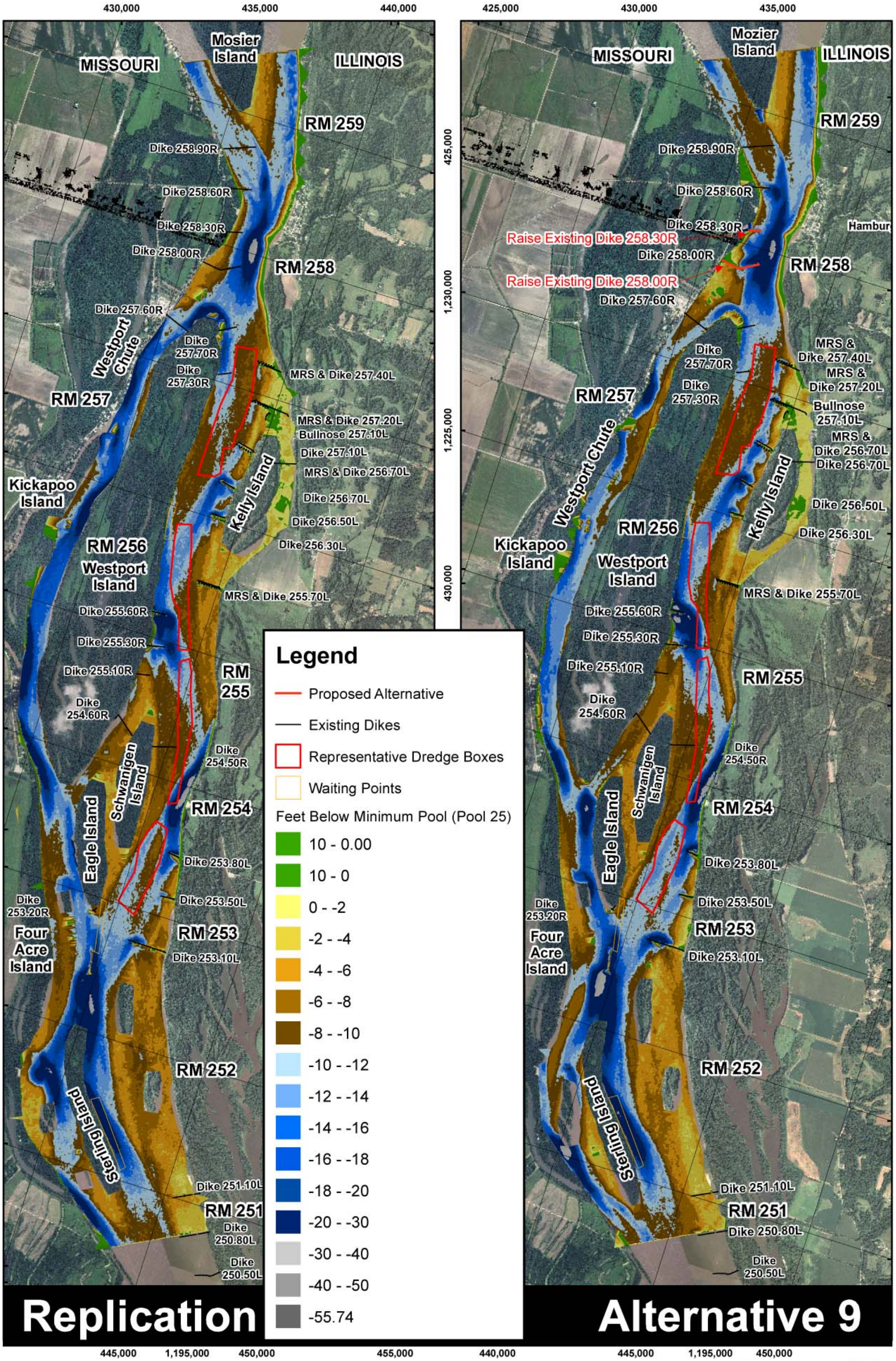

PLATE NUMBER 36

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 9
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 05/22/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/22/2012

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St. Louis District

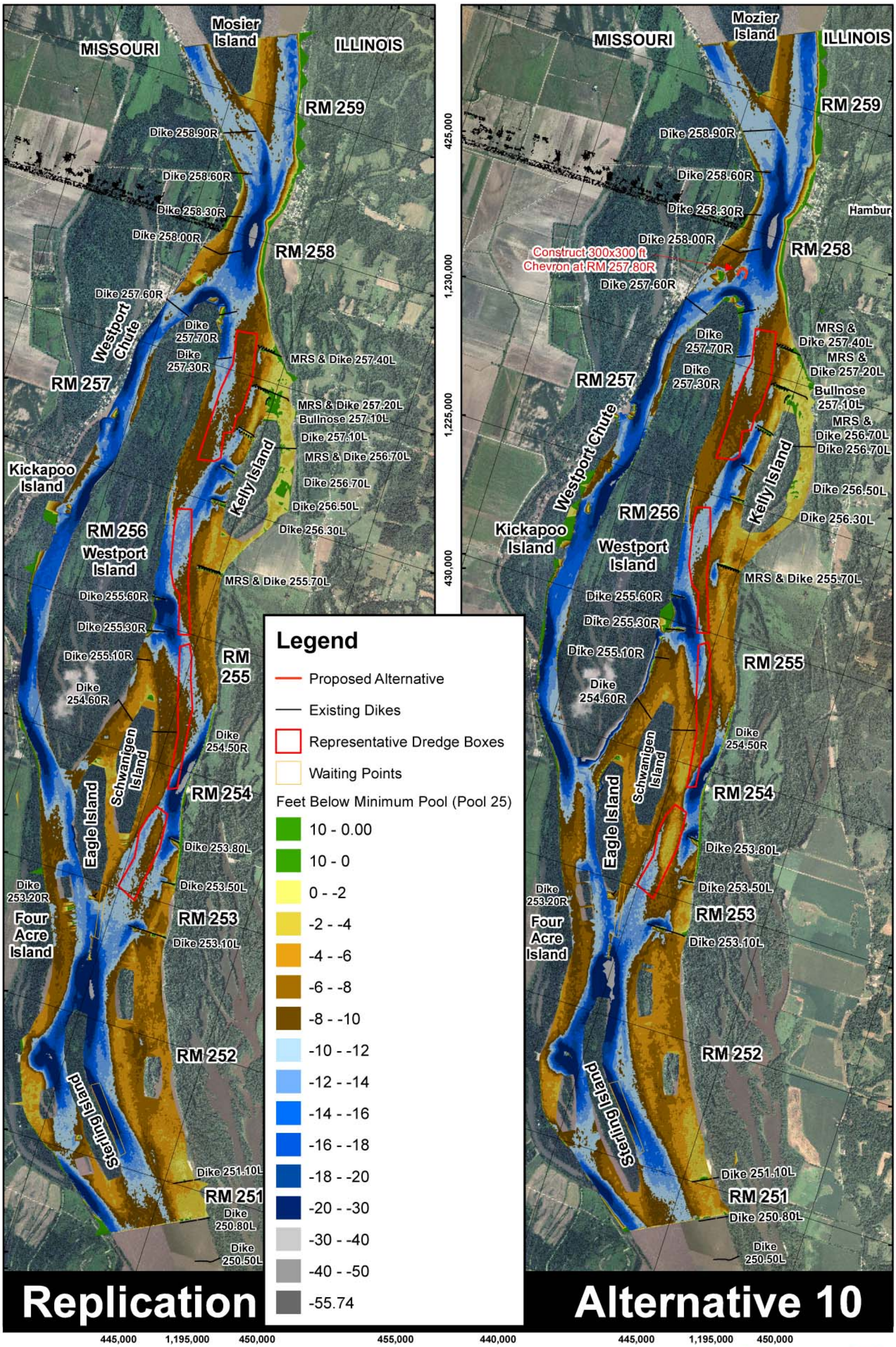

PLATE NUMBER 37

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 10
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 05/23/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/23/2012

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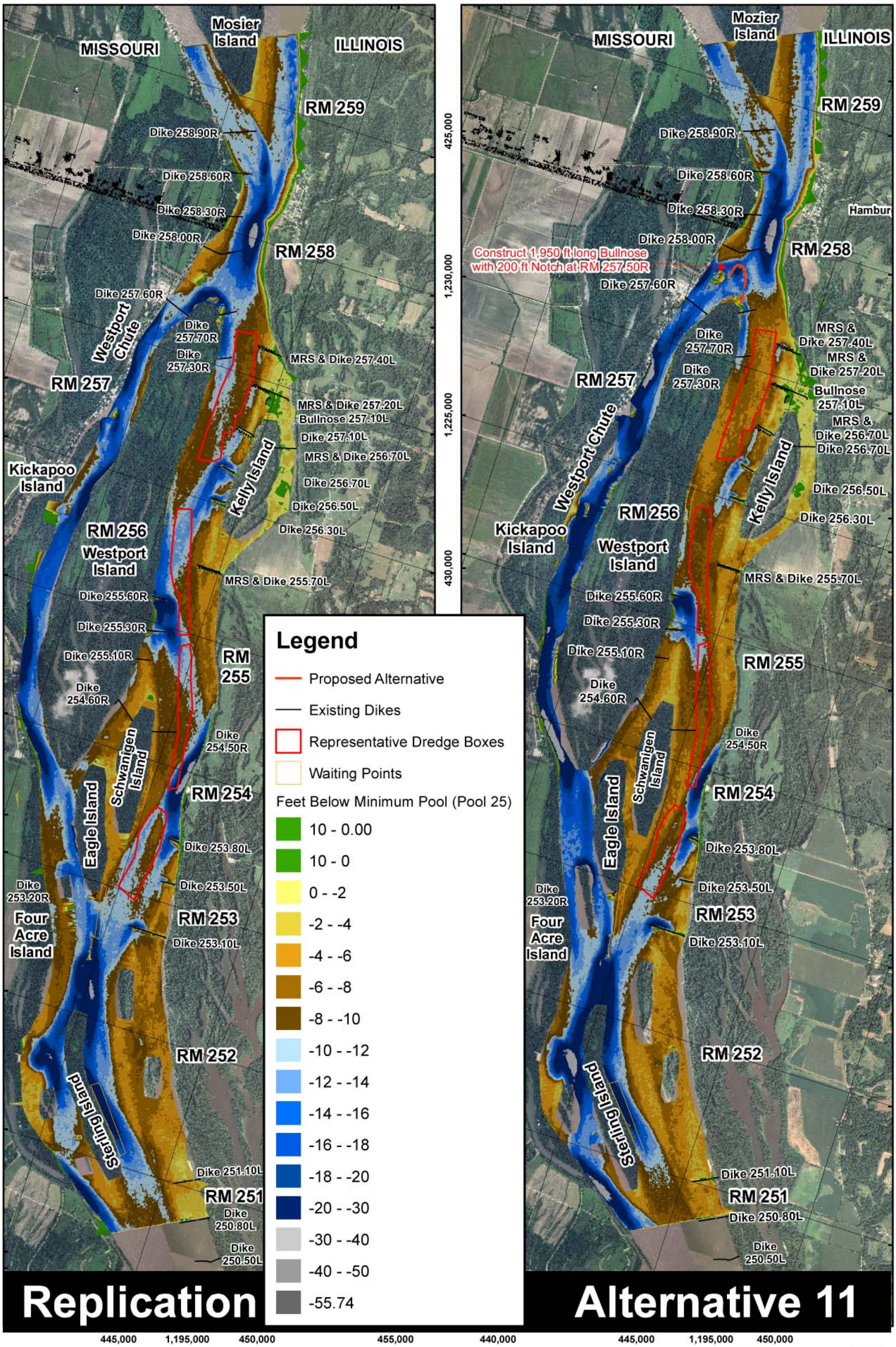

PLATE NUMBER 38

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 11
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 05/23/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 05/23/2012

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St. Louis District

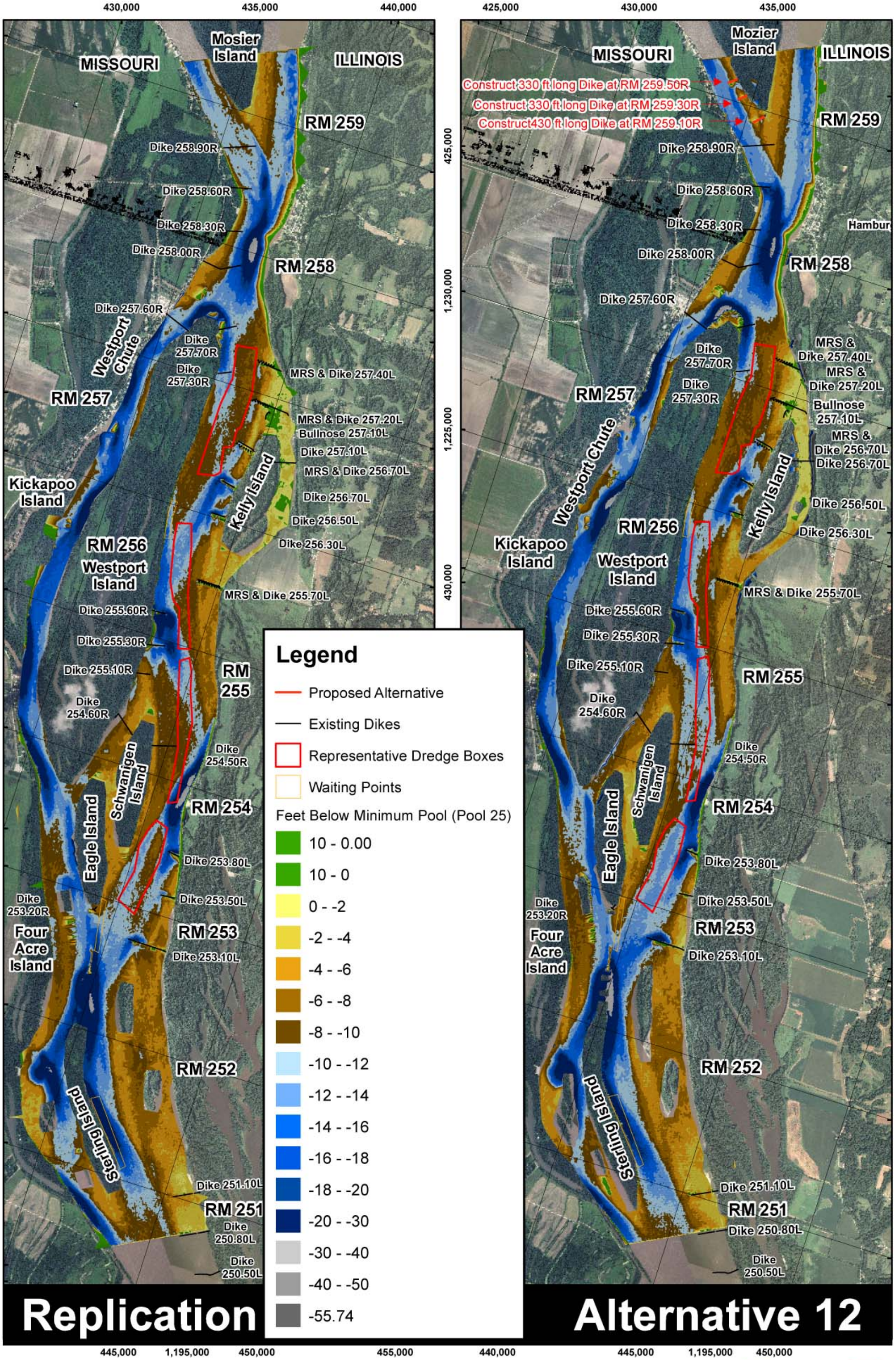

PLATE NUMBER 39

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 12
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 06/06/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 06/06/2012

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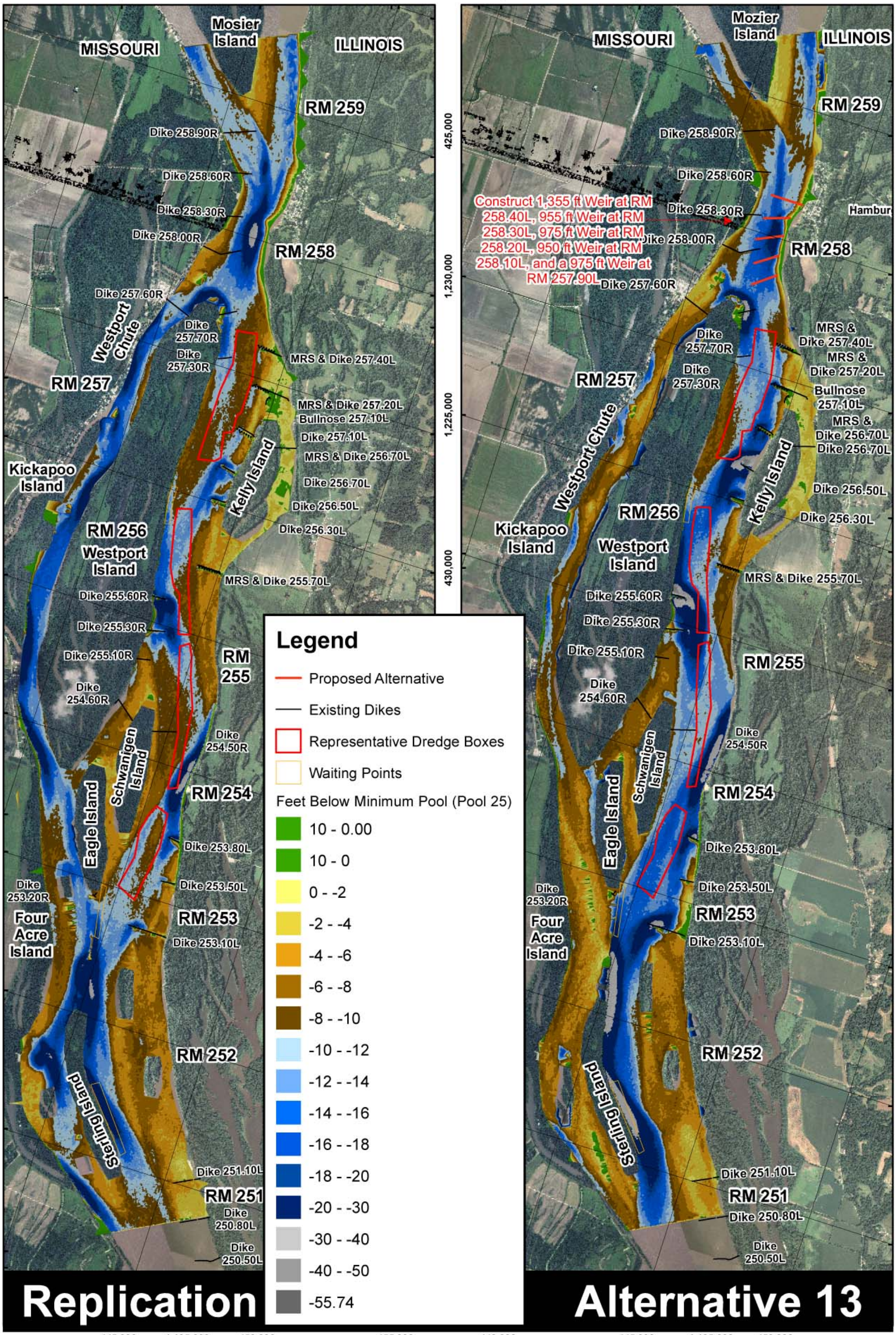

PLATE NUMBER 40

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 13
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 06/07/2012
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
	FILE NAME: L:\Westport\Plates		PLOT DATE: 06/07/2012

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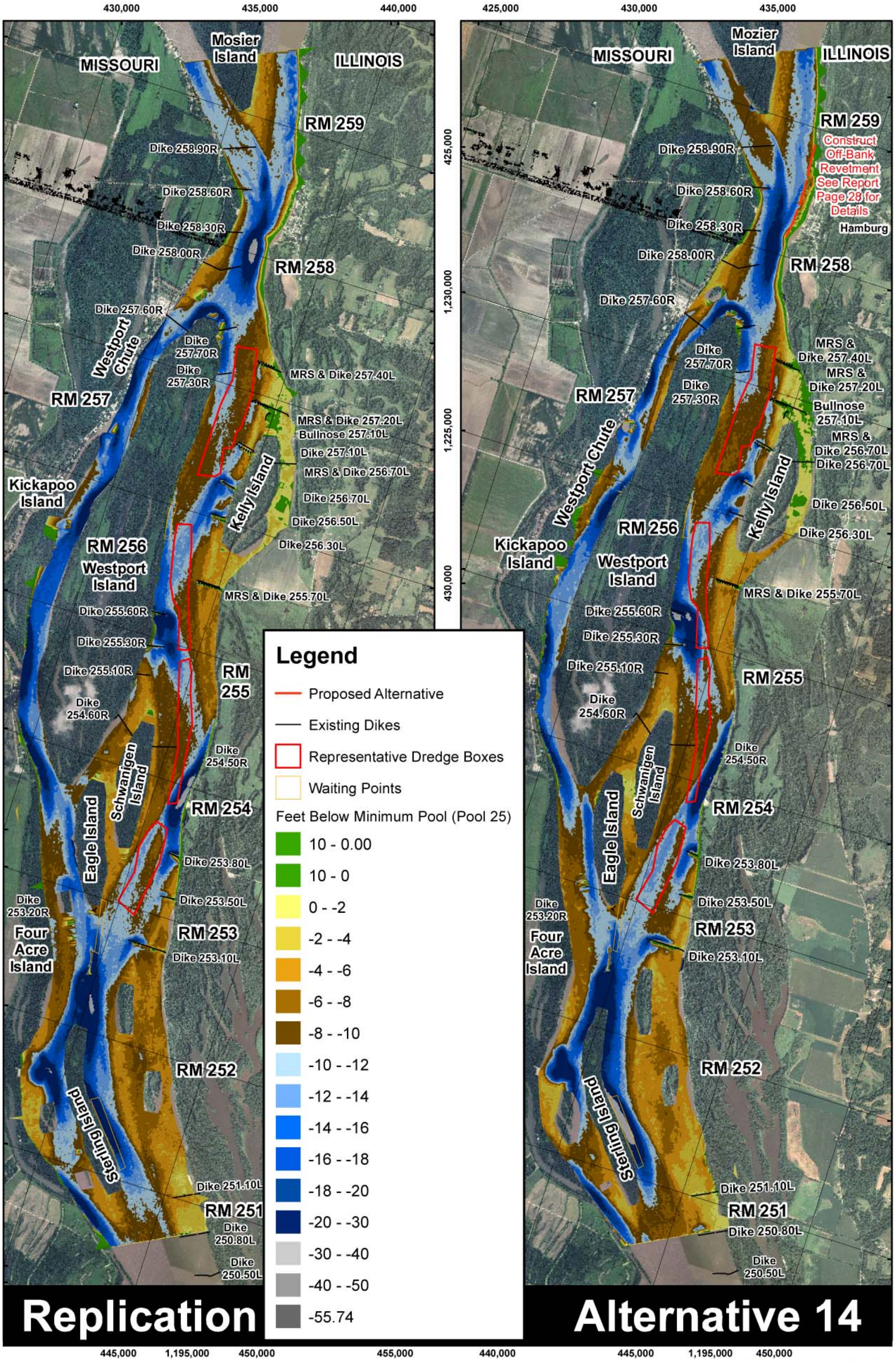

PLATE NUMBER 41

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 14
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

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DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.	
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 06/08/2012	

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St. Louis District

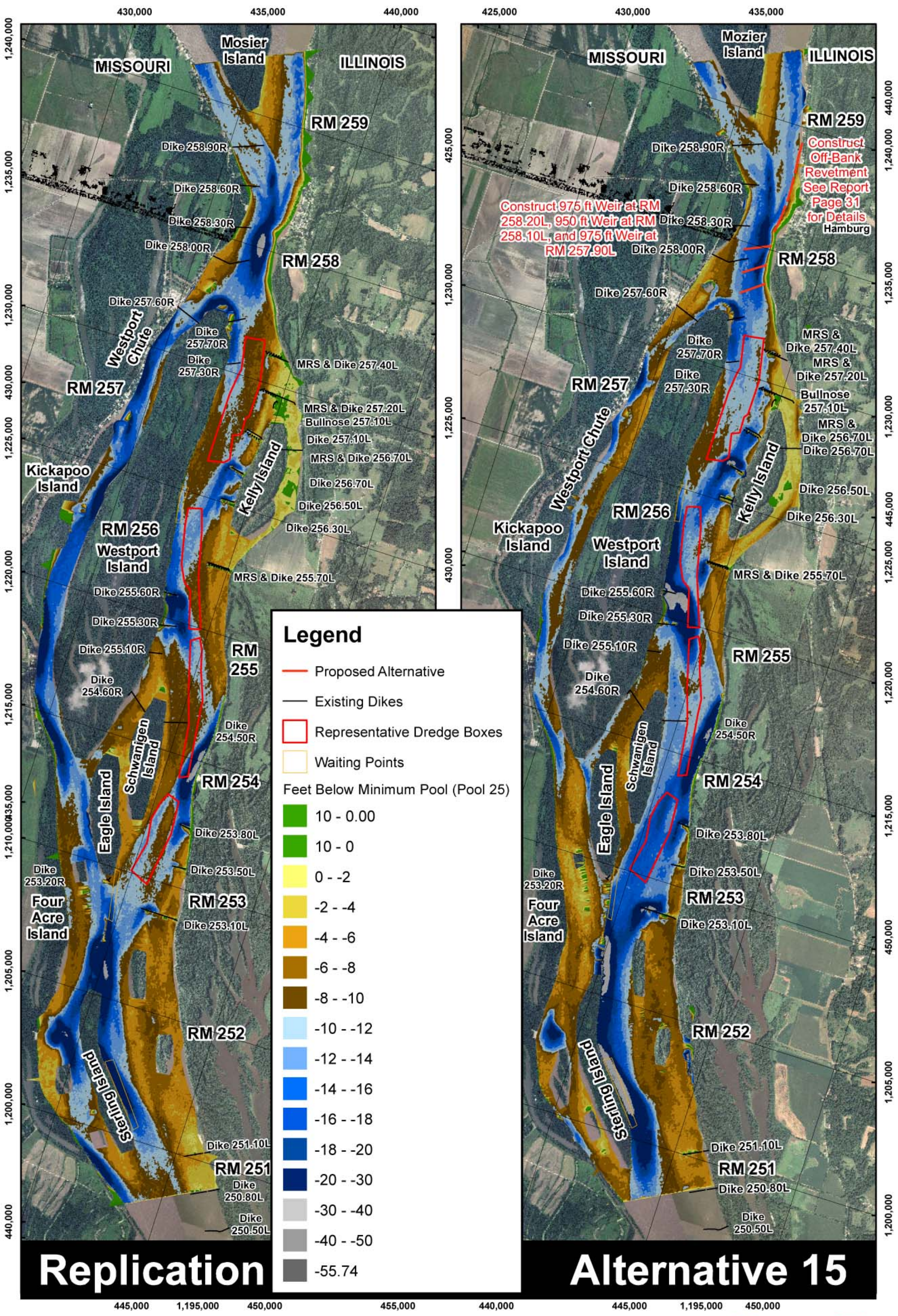

PLATE NUMBER 42

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 15
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 06/11/2012	
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.	
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 06/11/2012	

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St. Louis District

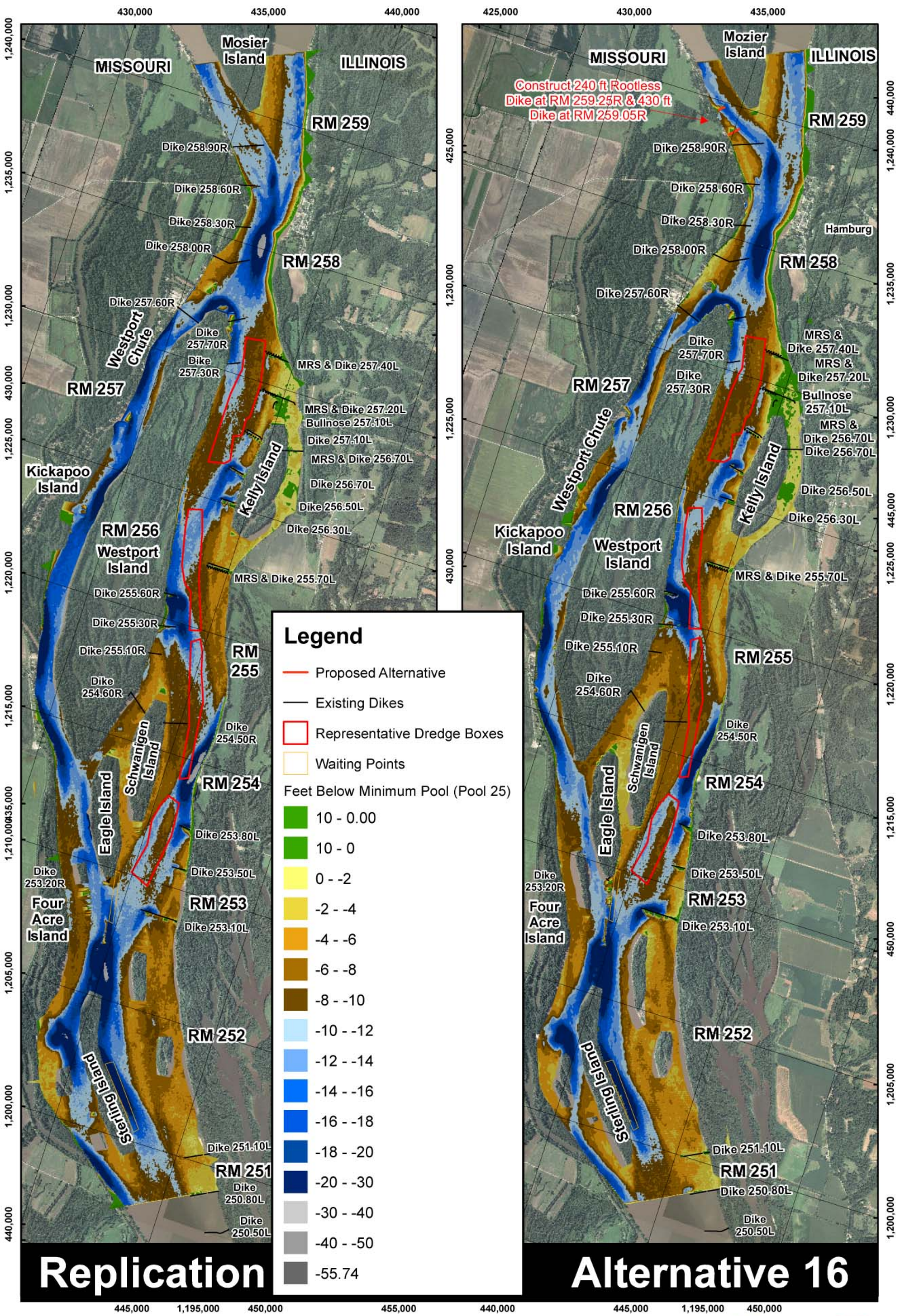

PLATE NUMBER 43

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 16
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 06/19/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 06/25/2012

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St. Louis District

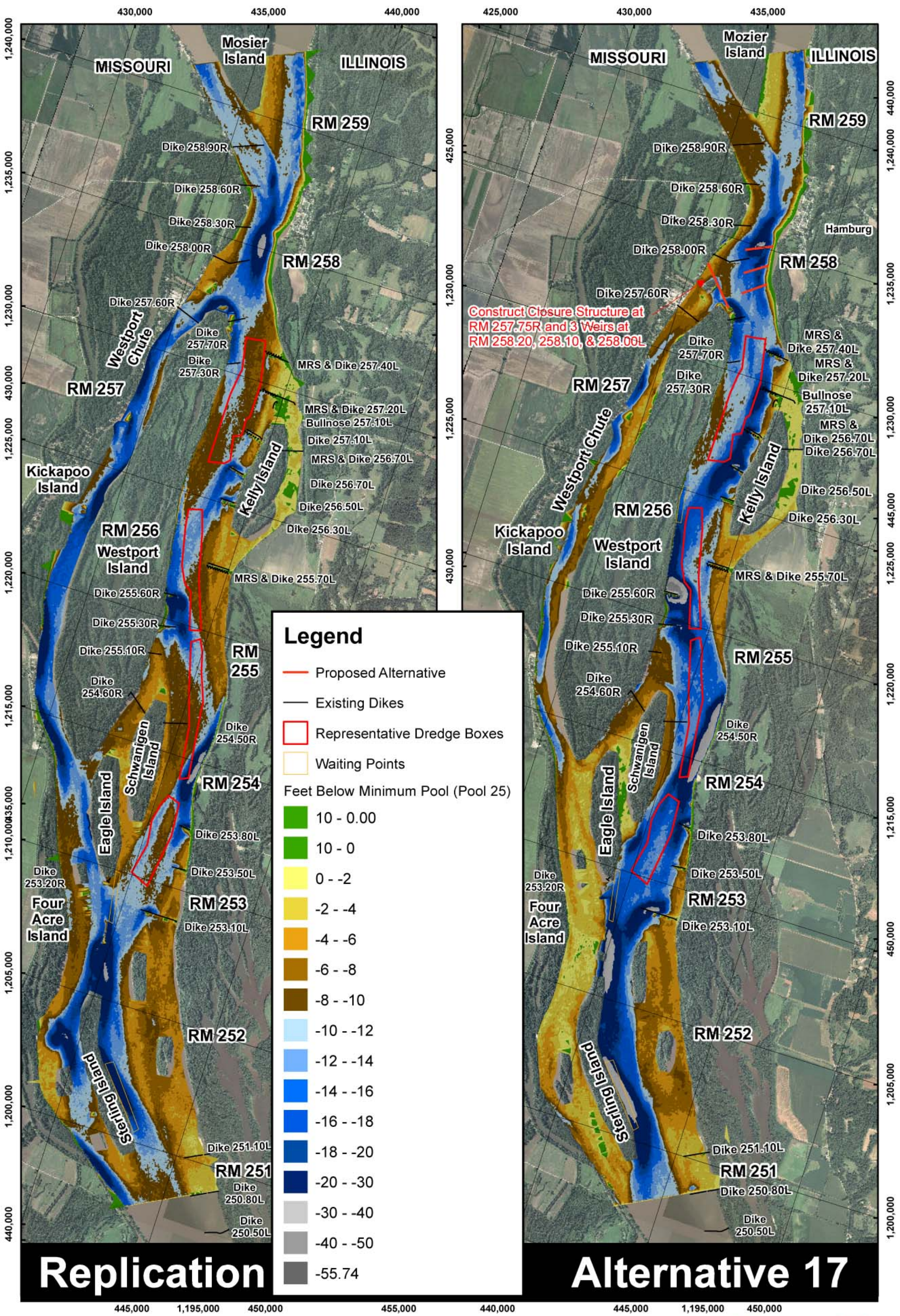

PLATE NUMBER 44

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 17
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

Mississippi River Basin
St. Louis District
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HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 06/19/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 06/25/2012

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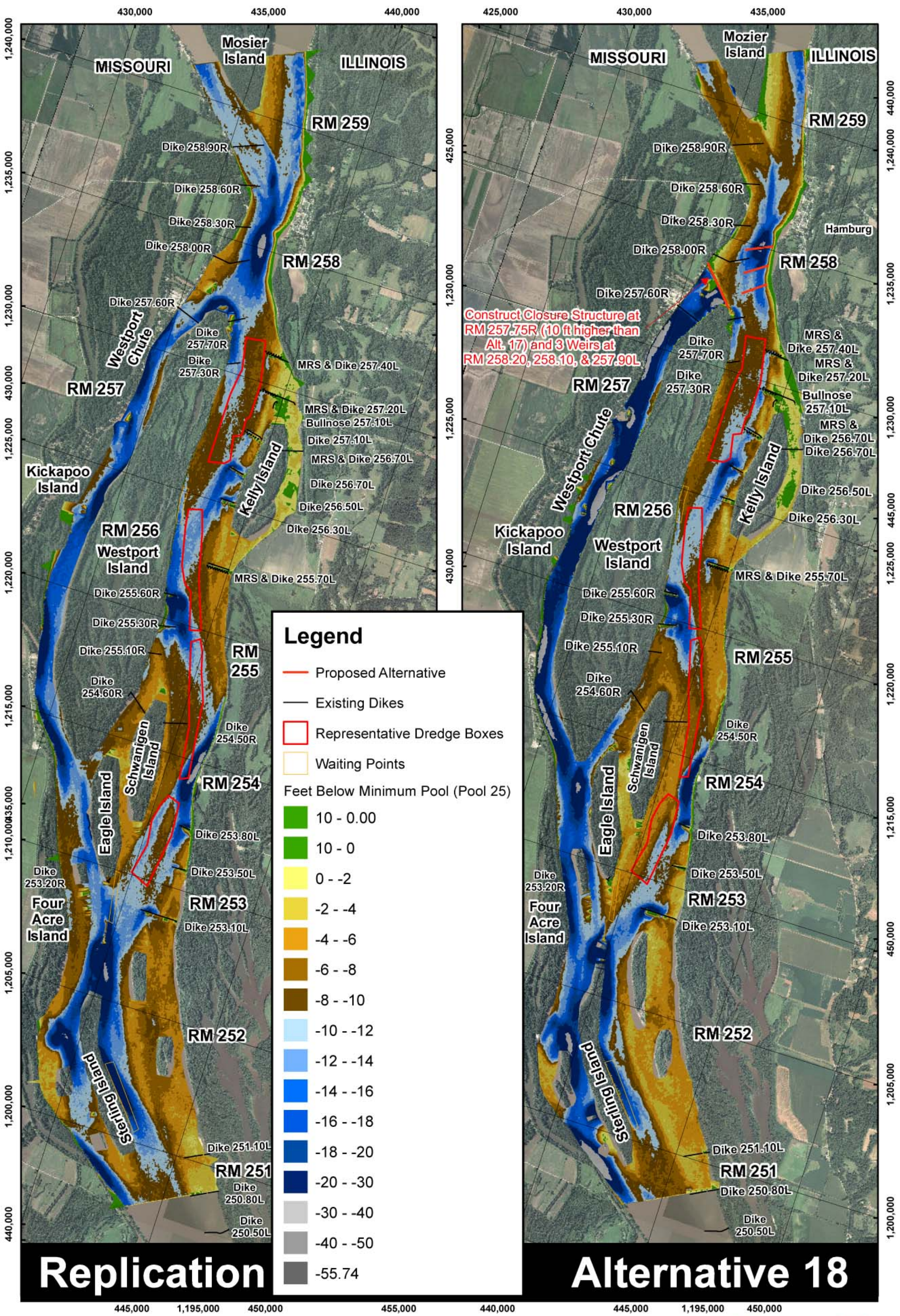

PLATE NUMBER 45

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 18
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 06/26/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 06/26/2012

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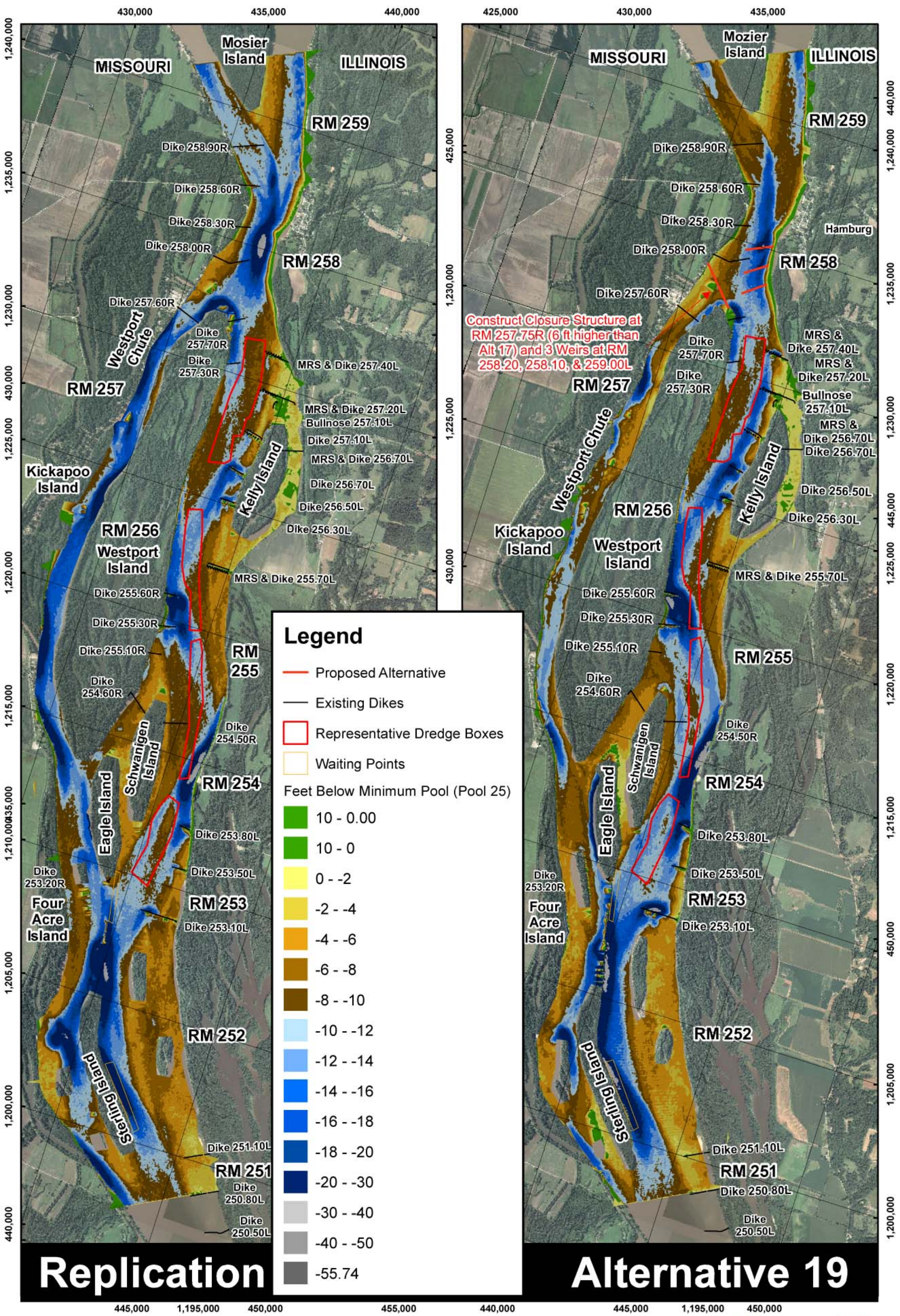

PLATE NUMBER 46

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 19
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 06/19/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 06/25/2012

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US Army Corps of Engineers
St. Louis District

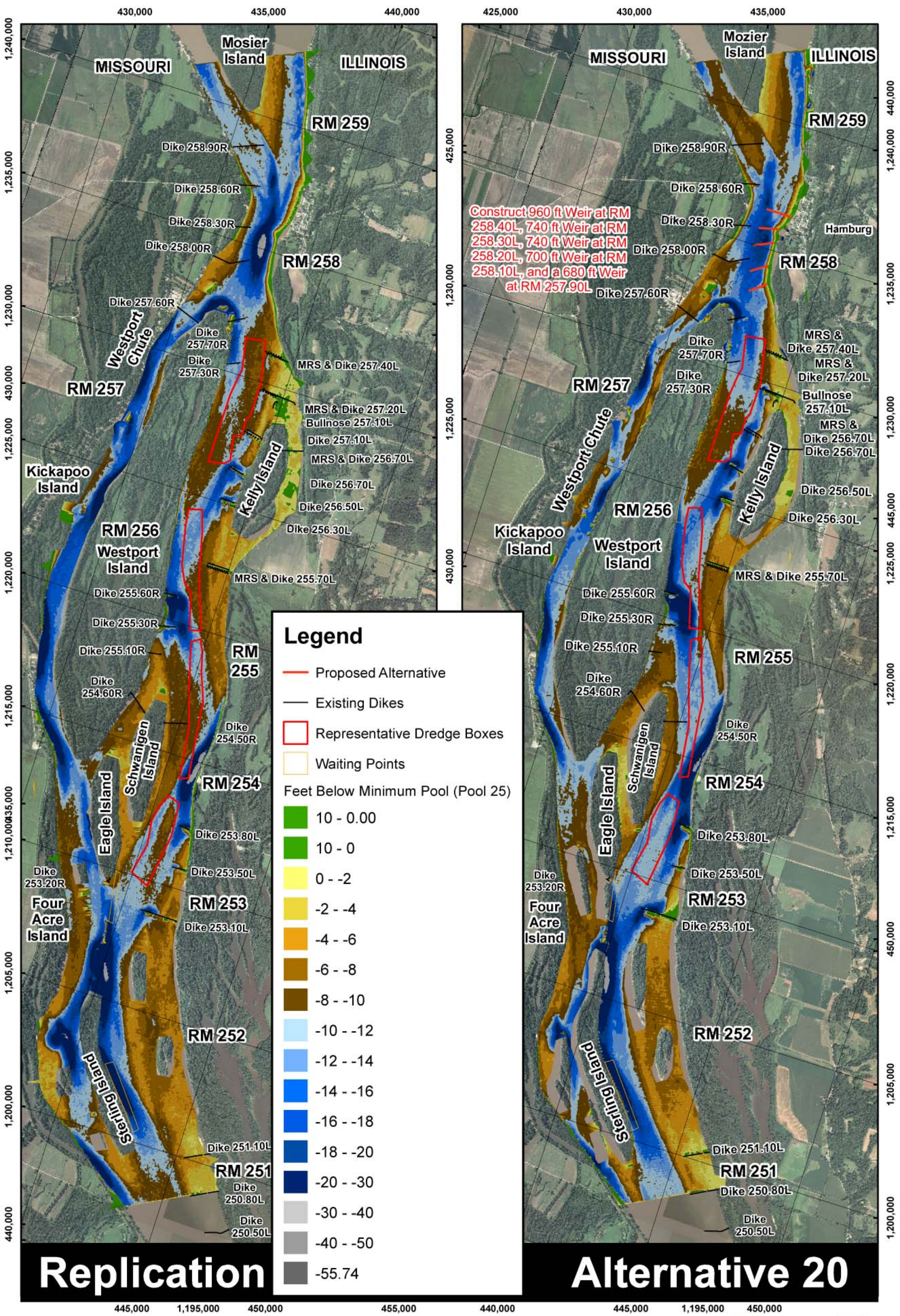

PLATE NUMBER 47

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 20
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 07/18/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 07/24/2012

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St. Louis District

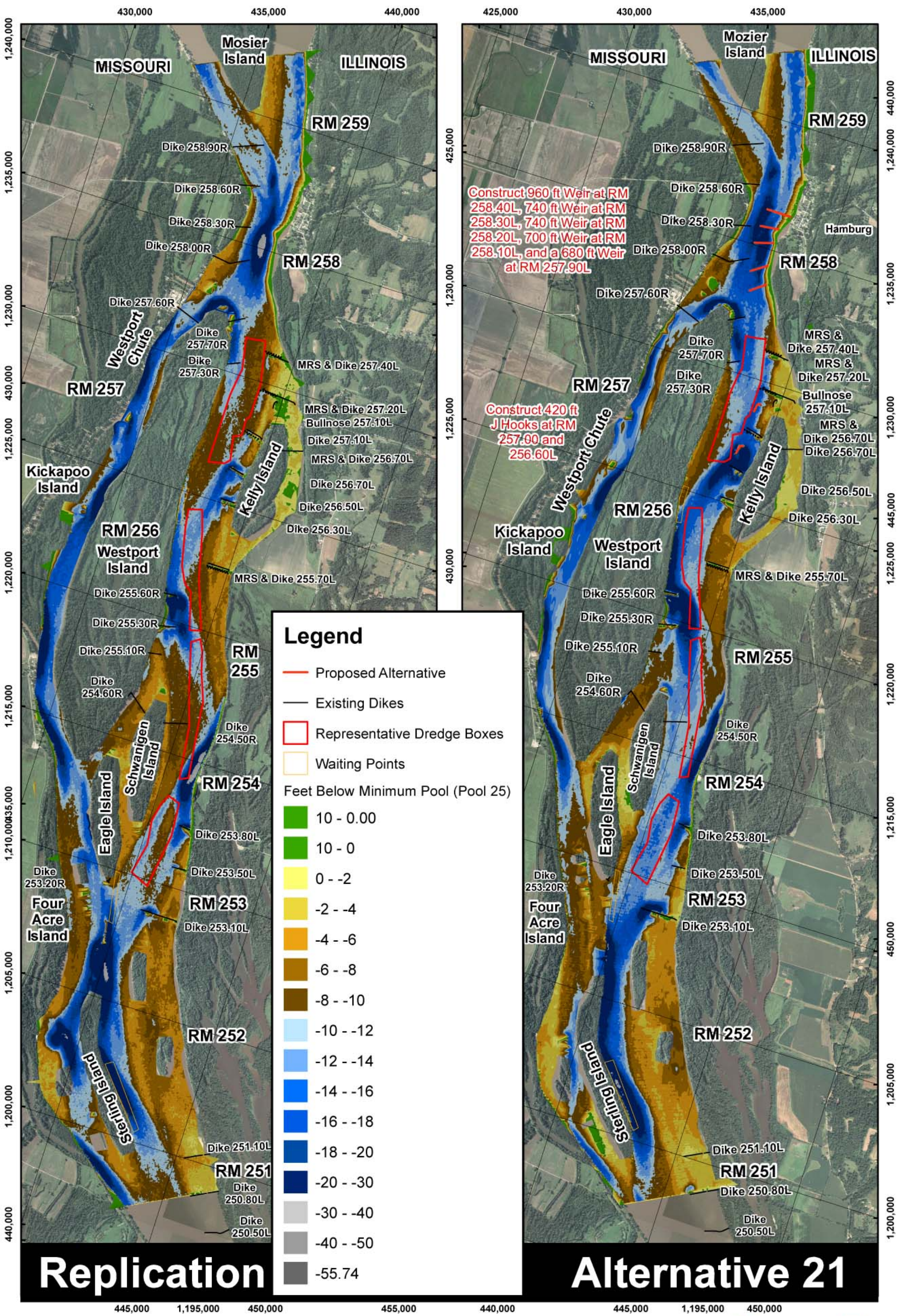

PLATE NUMBER 48

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 21
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 09/17/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 09/25/2012

N W E S

APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers
St. Louis District

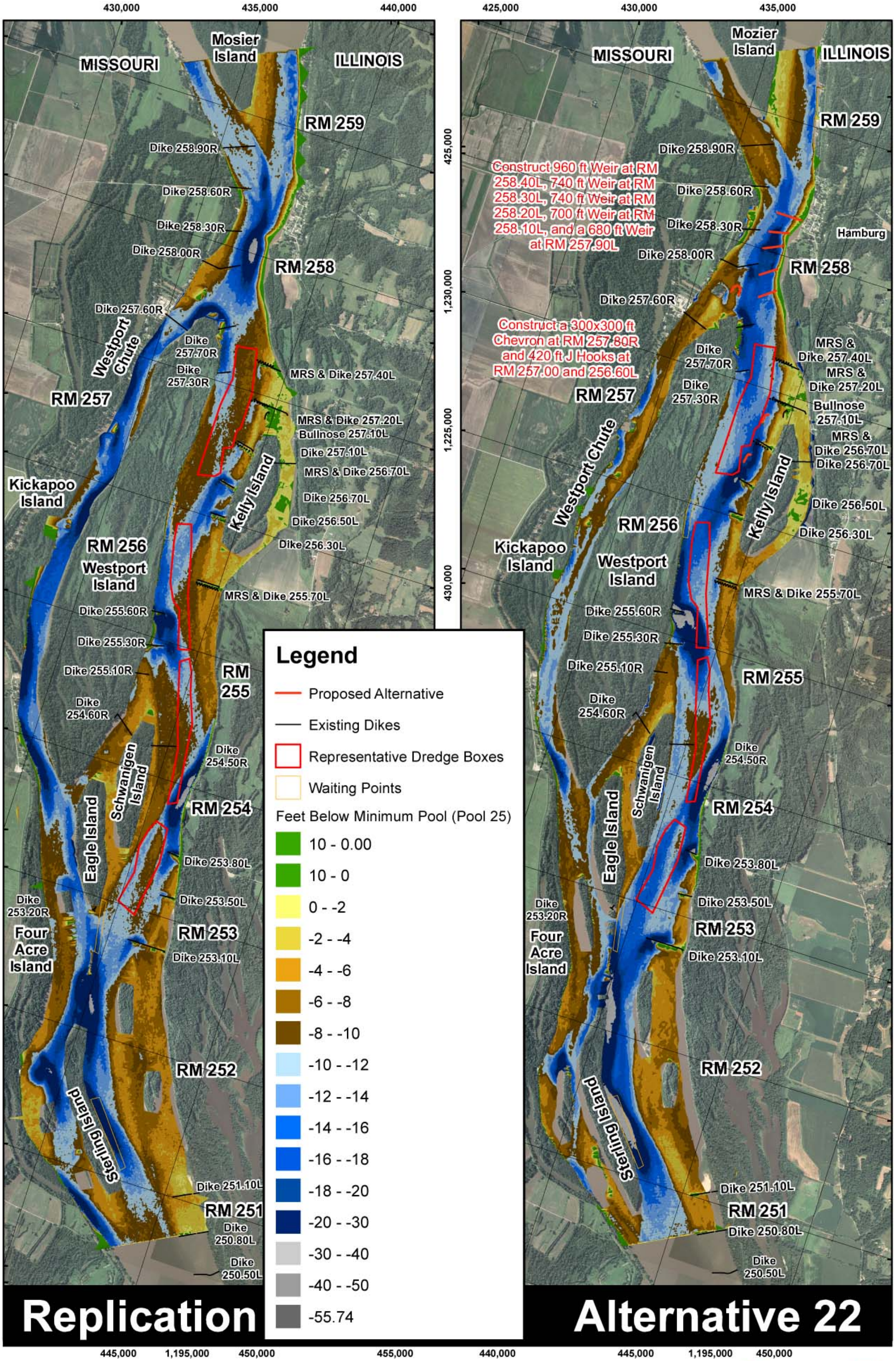

PLATE NUMBER 49

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 22
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 07/31/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 09/25/2012

N W E S

APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers
St. Louis District

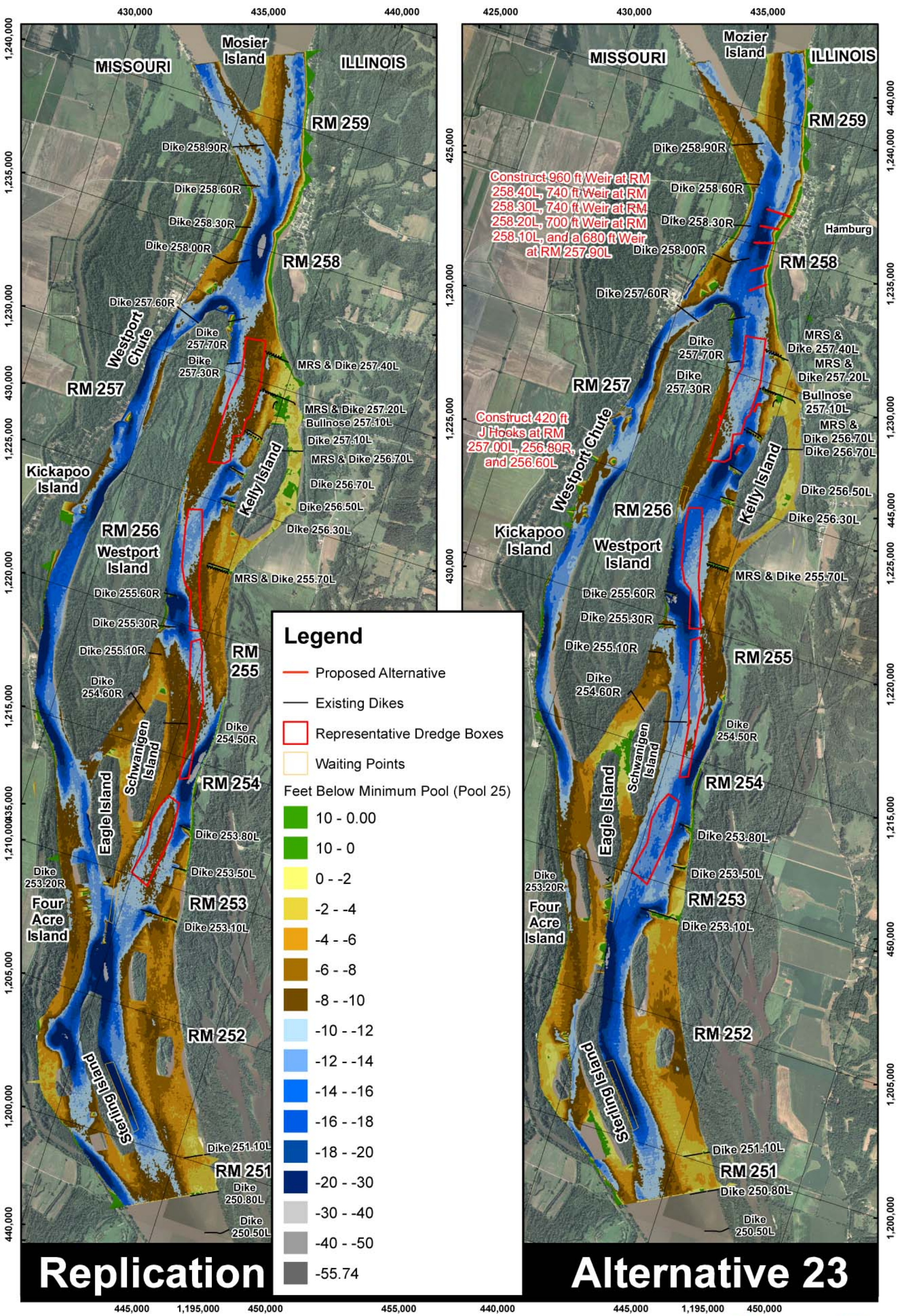

PLATE NUMBER 50

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 23
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 09/20/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 09/25/2012

N W E S

APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers
St. Louis District

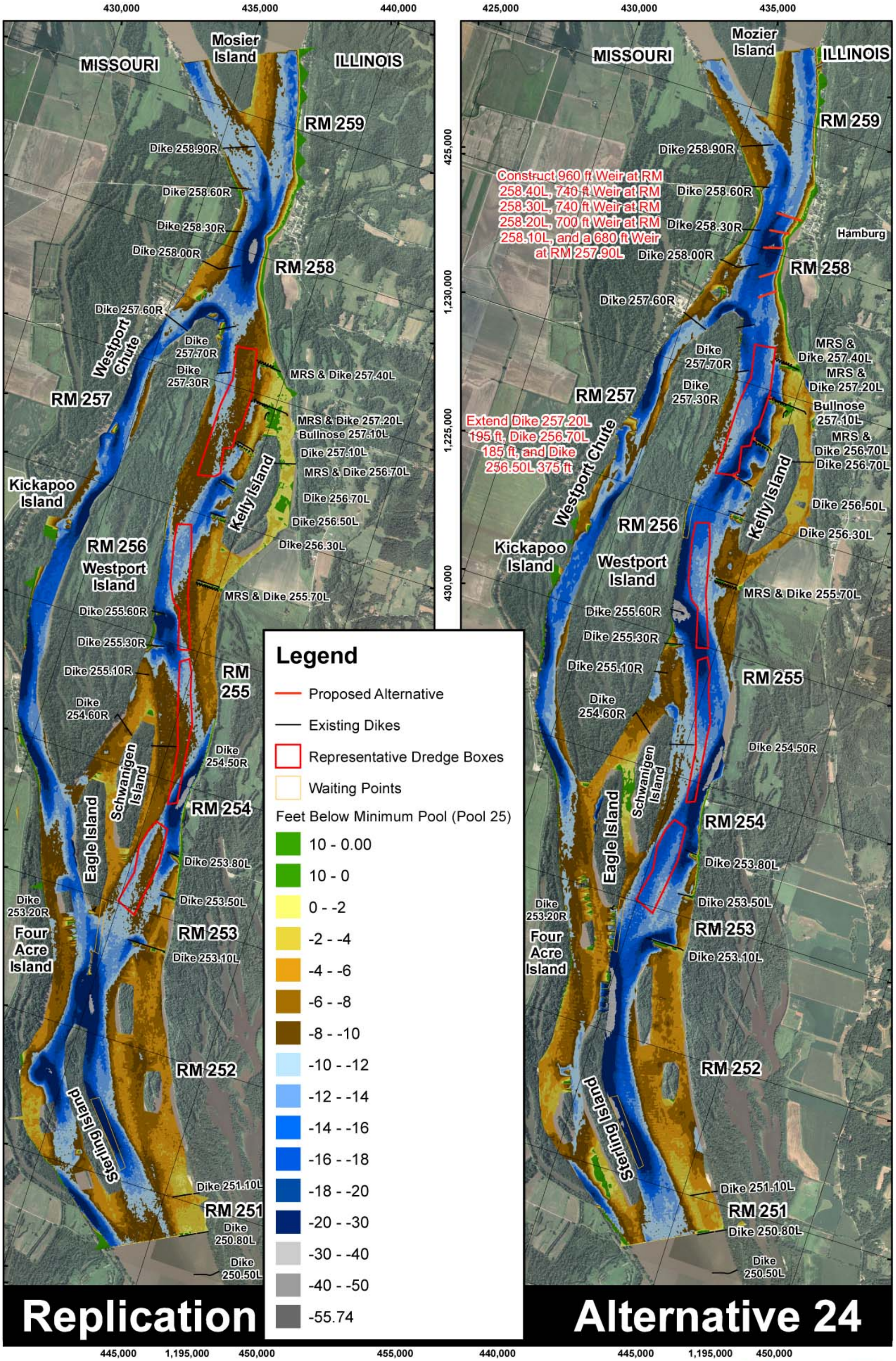

PLATE NUMBER 51

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 24
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 09/24/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 09/25/2012

N W E S

APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers
St. Louis District

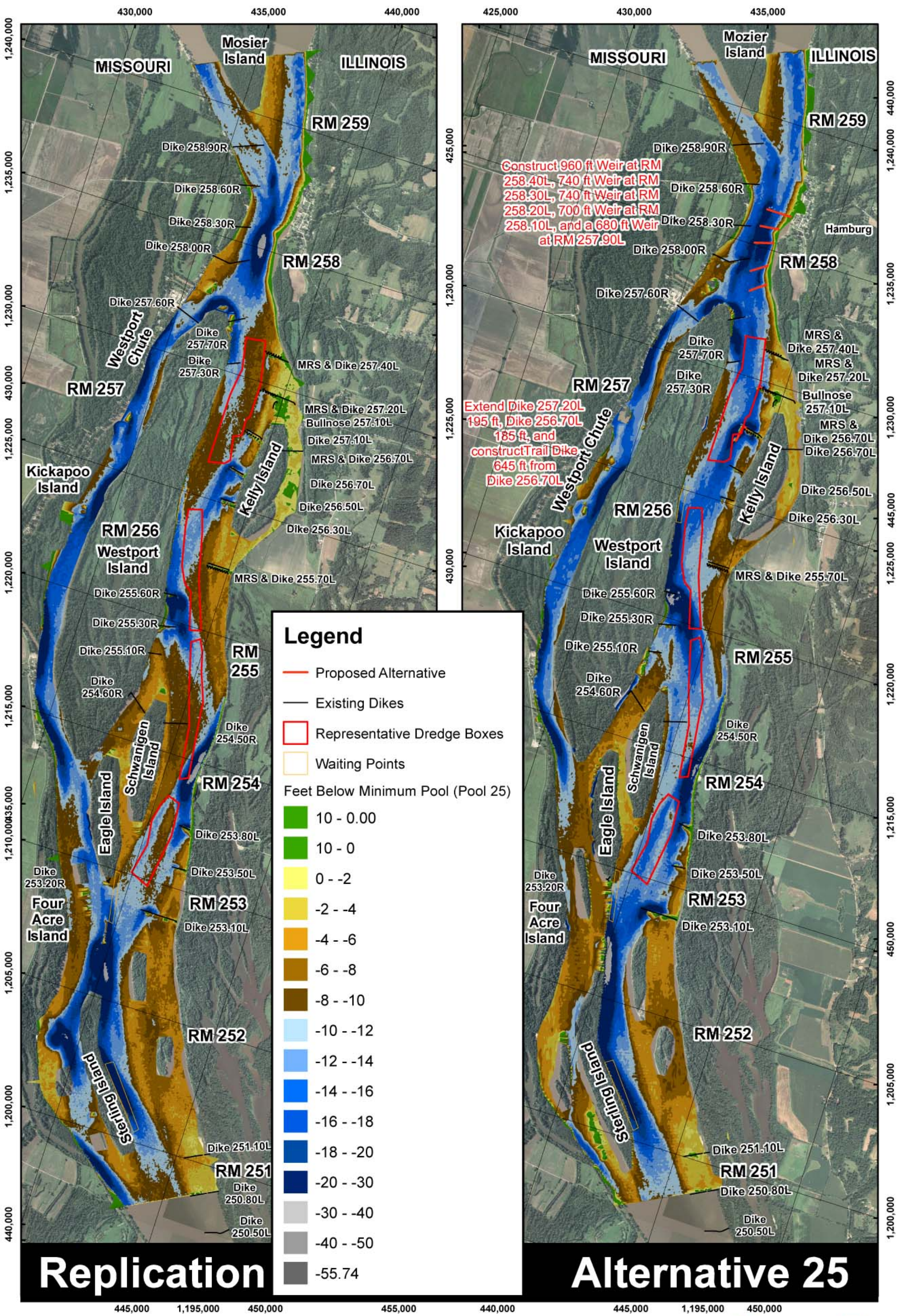

PLATE NUMBER 52

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 25
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 10/01/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 10/10/2012

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APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers
St. Louis District

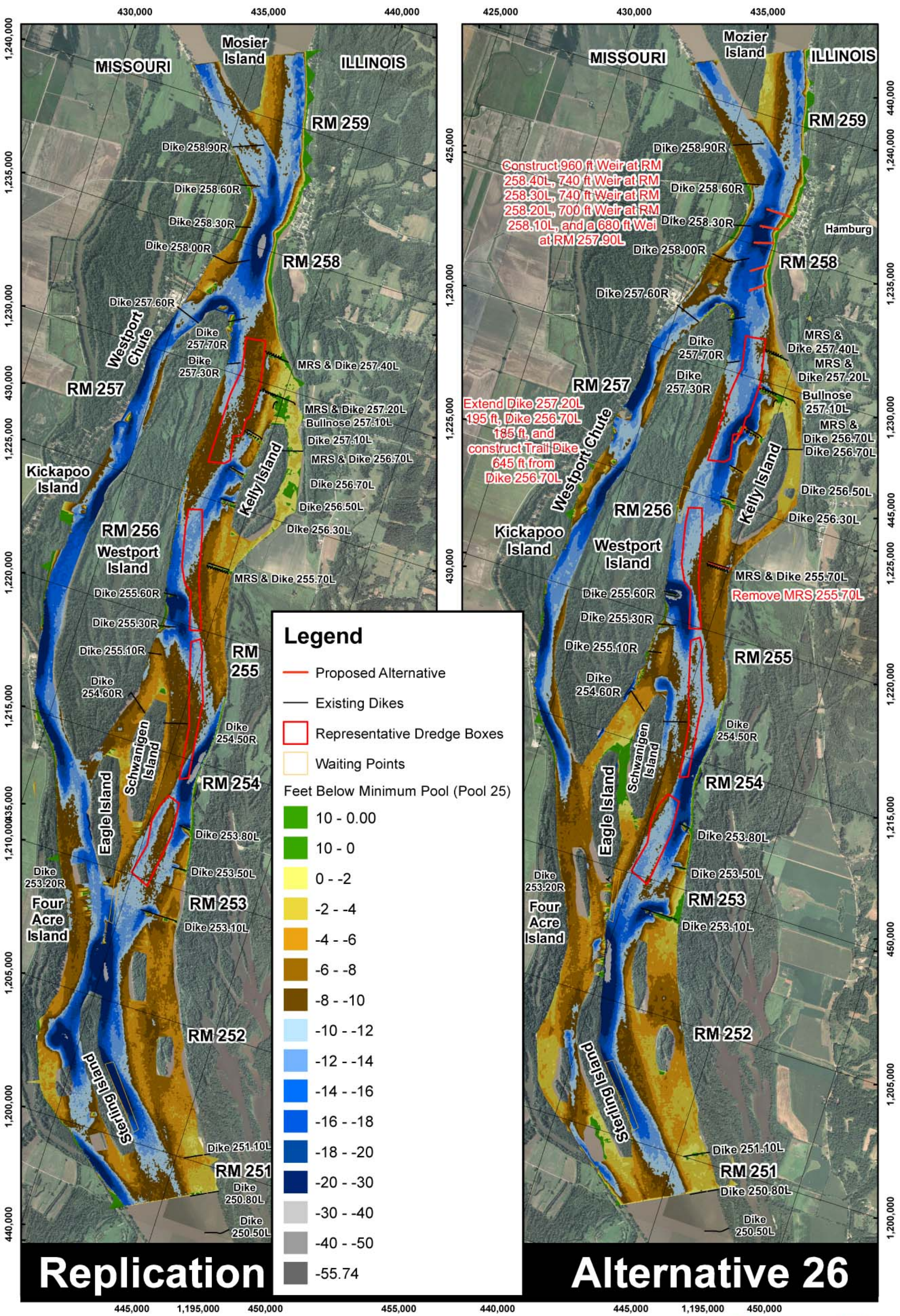

PLATE NUMBER 53

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 26
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 10/09/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 10/10/2012

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APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers
St. Louis District

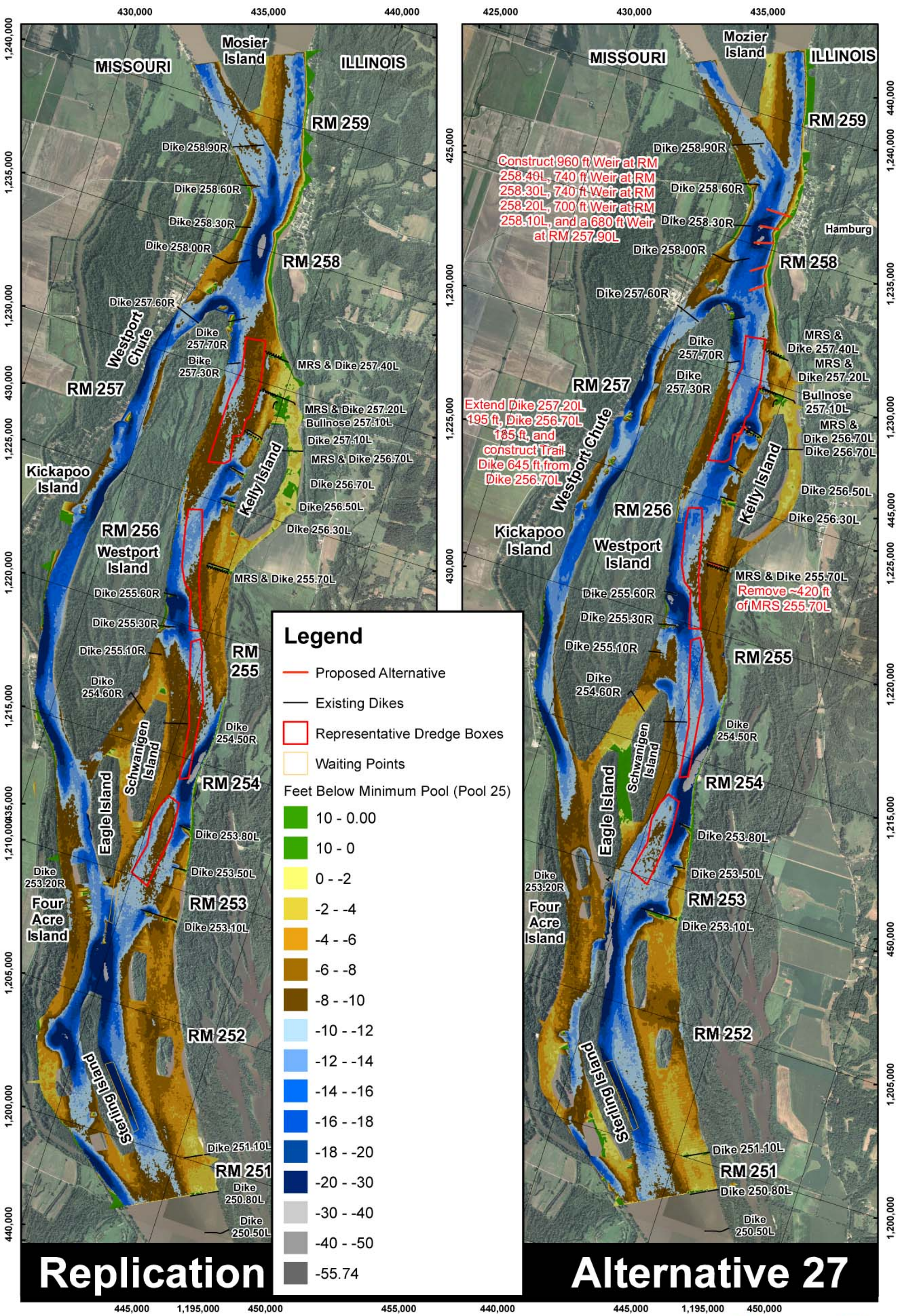

PLATE NUMBER 54

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 27
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 10/11/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 10/11/2012

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US Army Corps of Engineers
St. Louis District

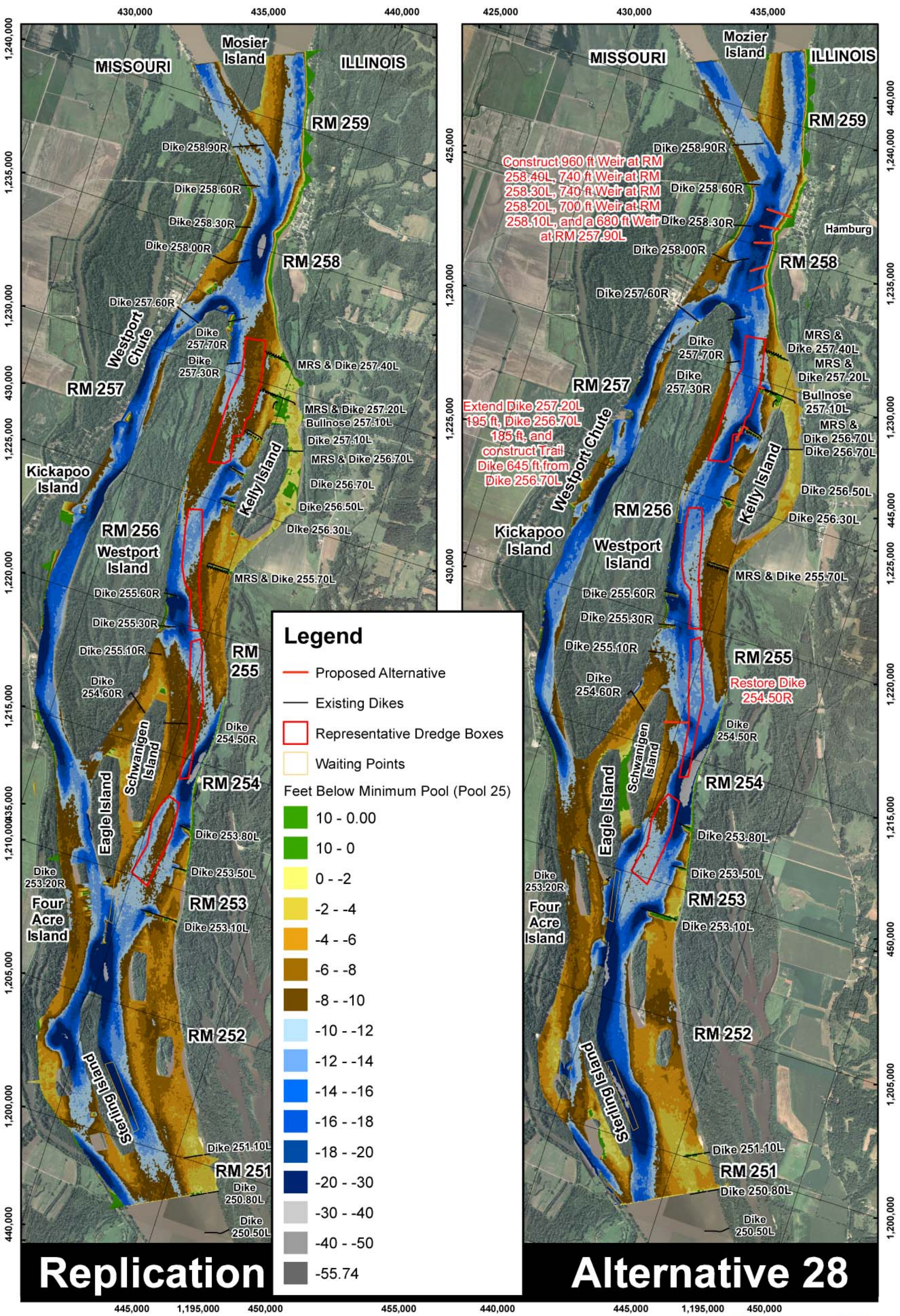

PLATE NUMBER 55

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 28
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 10/12/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox	APPROVED: Rob Davinroy, P.E.	
FILE NAME: L:\Westport\Plates		PLOT DATE: 10/15/2012

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US Army Corps of Engineers
St. Louis District

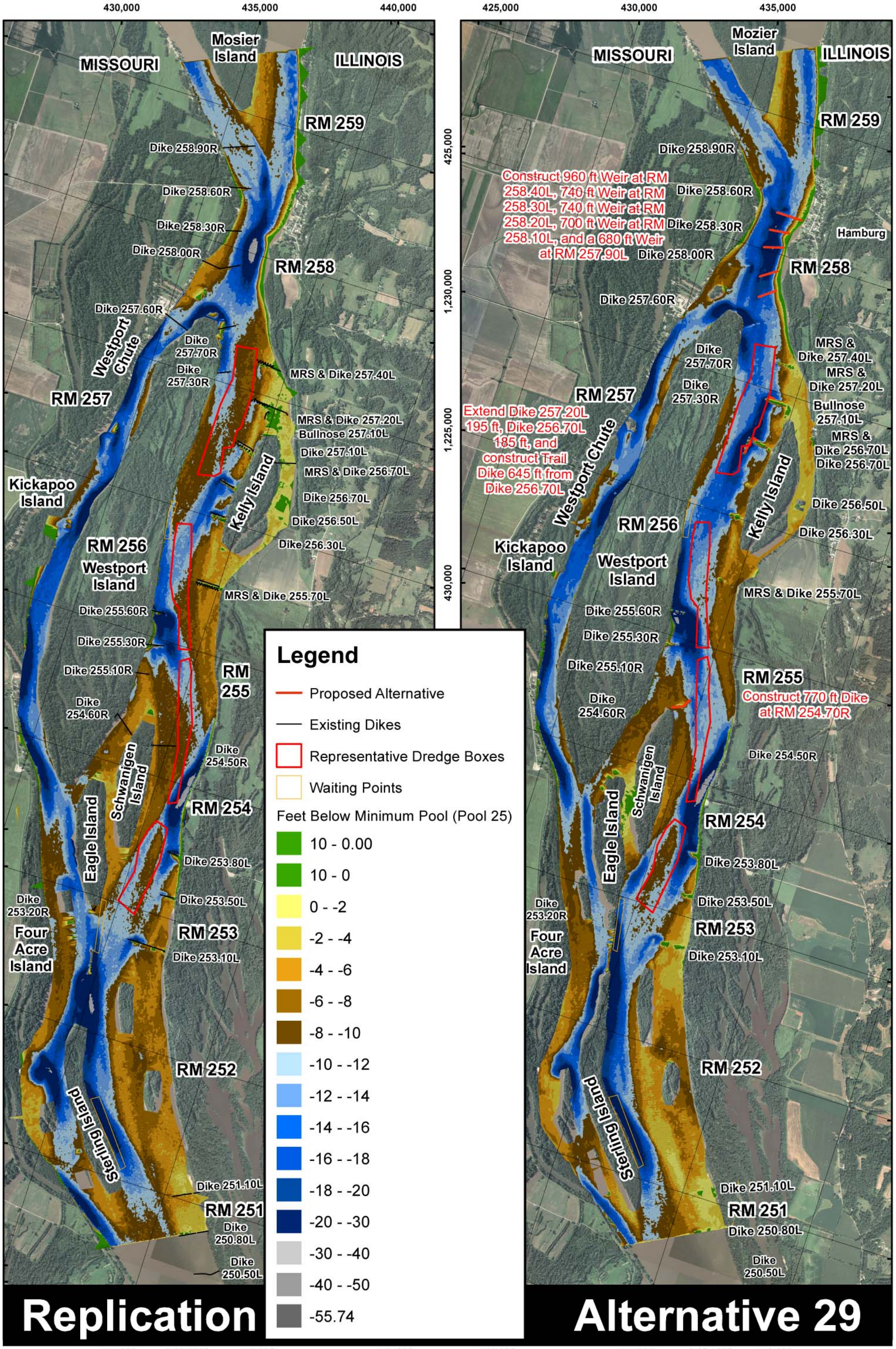

PLATE NUMBER 56

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 29
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 10/17/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 10/31/2012

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US Army Corps of Engineers
St. Louis District®

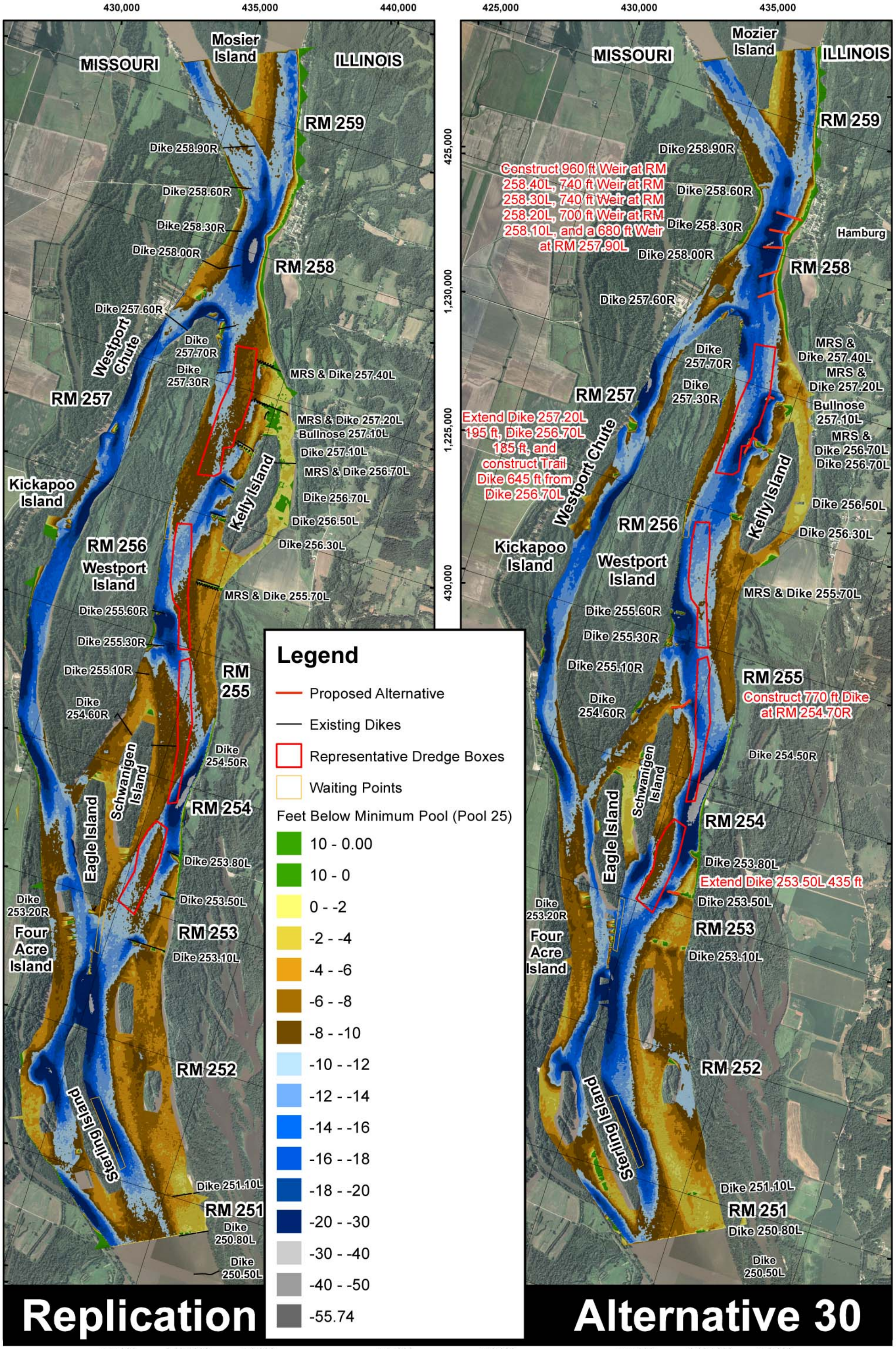

PLATE NUMBER 57

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 29
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 11/06/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 11/19/2012

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US Army Corps of Engineers
St. Louis District

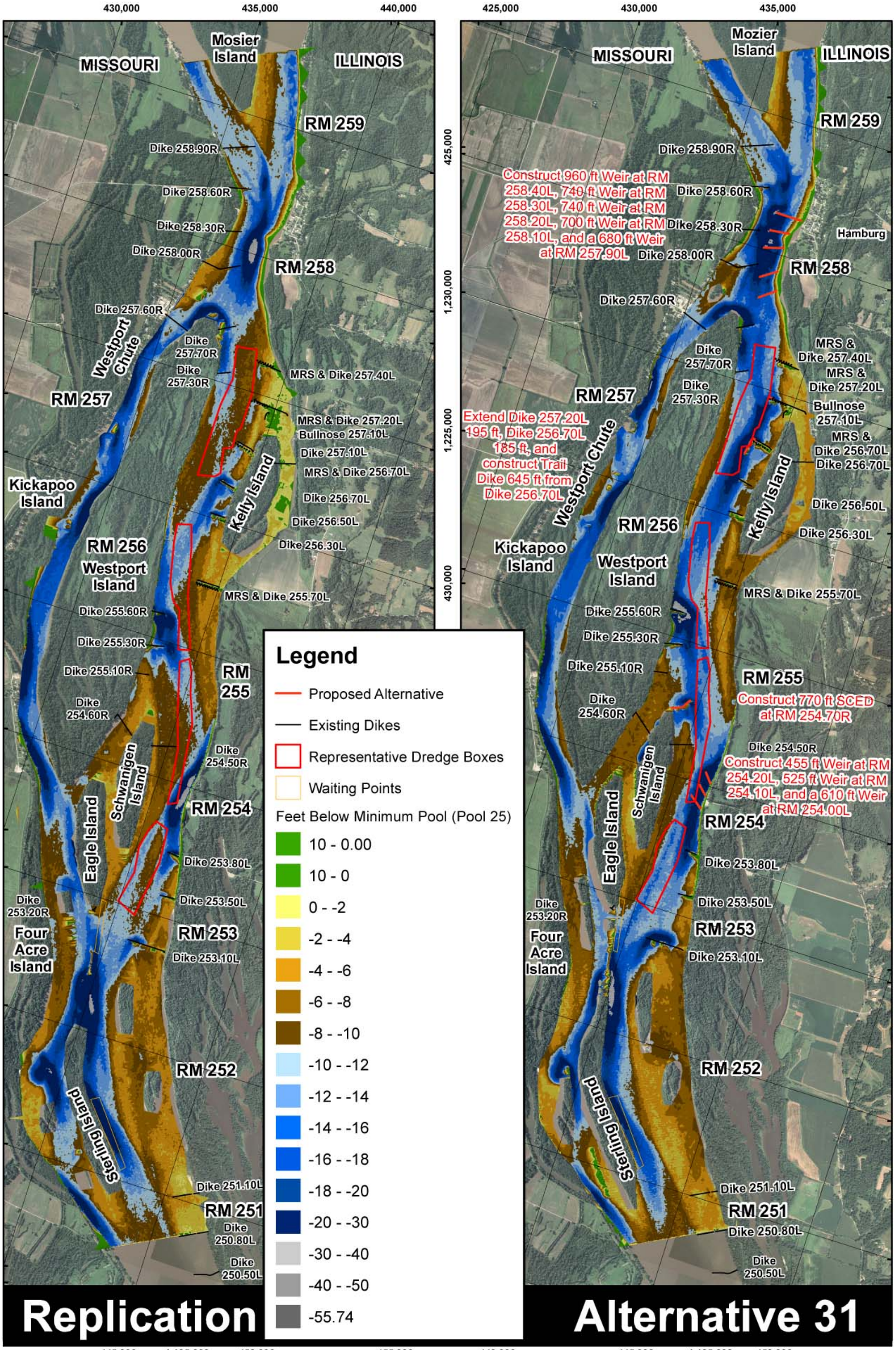

PLATE NUMBER 58

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 31
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 11/20/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 11/20/2012

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US Army Corps of Engineers
St. Louis District

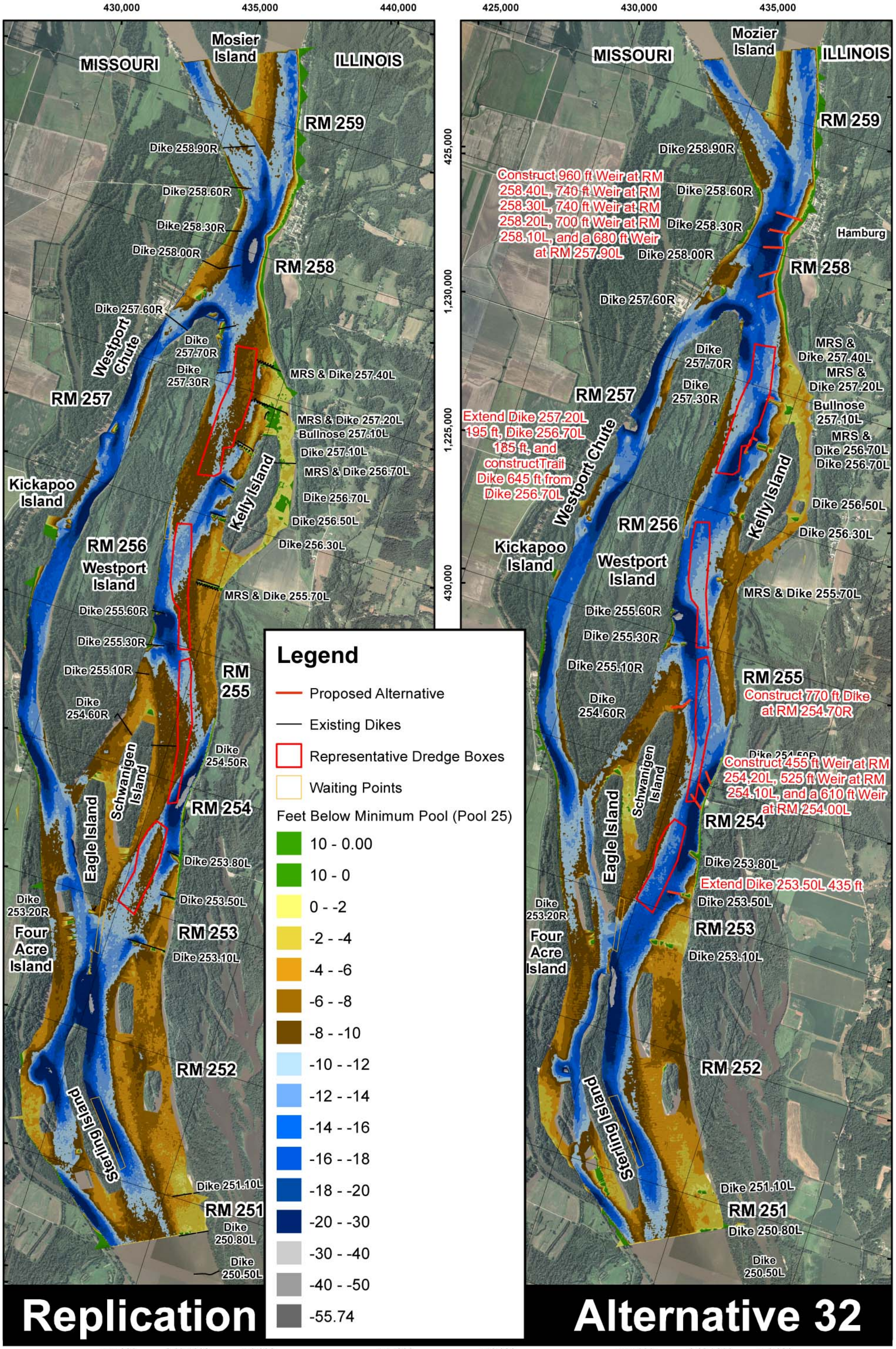

PLATE NUMBER 59

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 32
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 12/03/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/04/2012

APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers
St. Louis District®

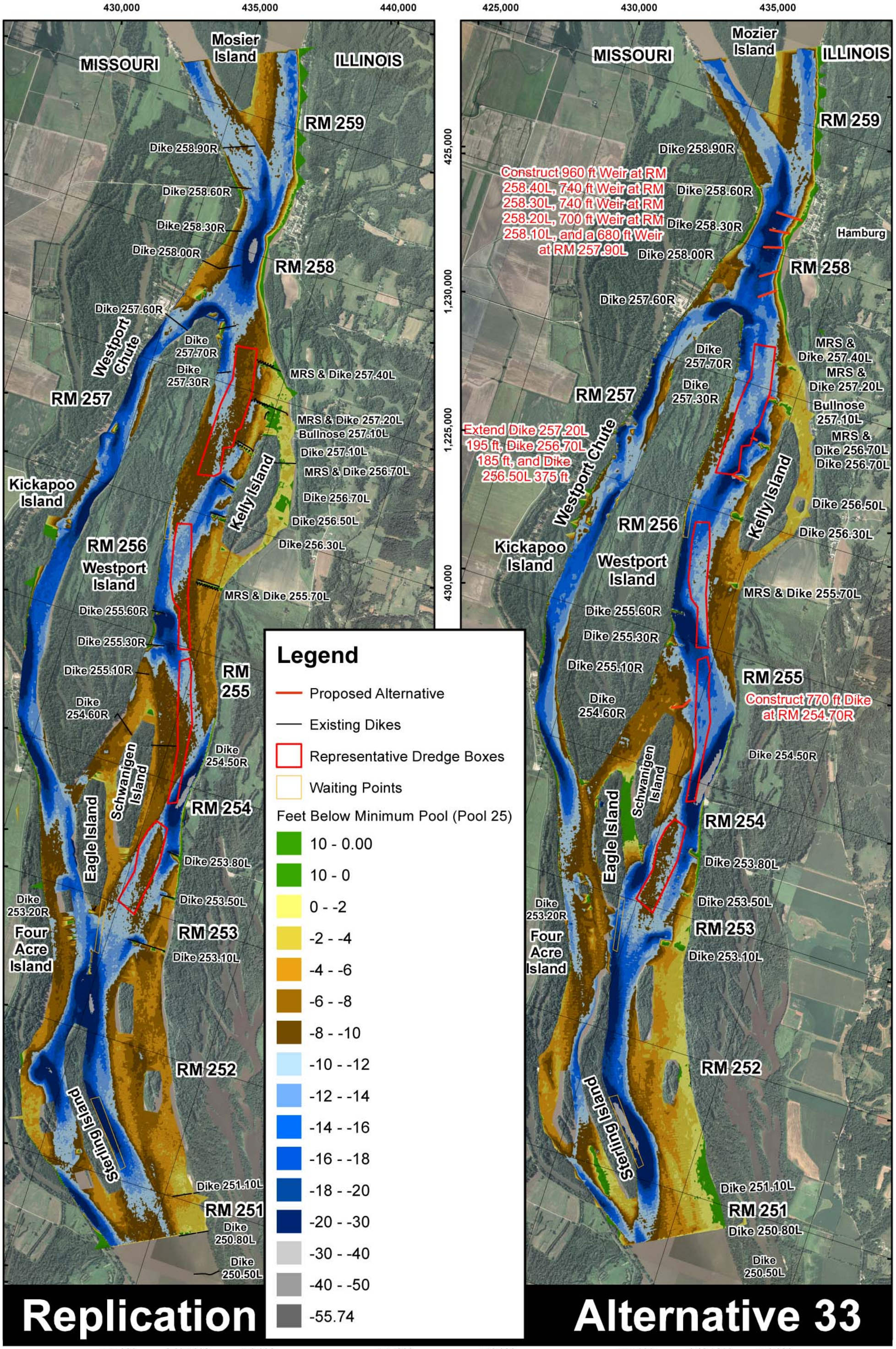

PLATE NUMBER 60

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 33
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 12/12/2012
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 12/13/2012

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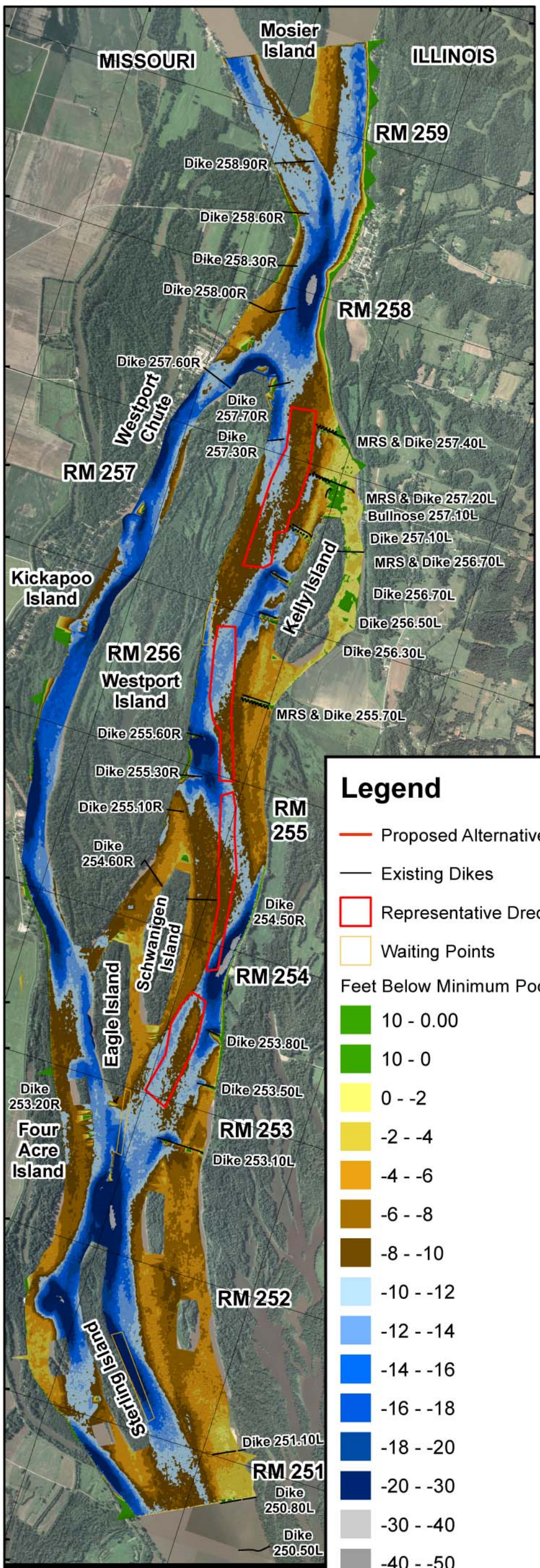
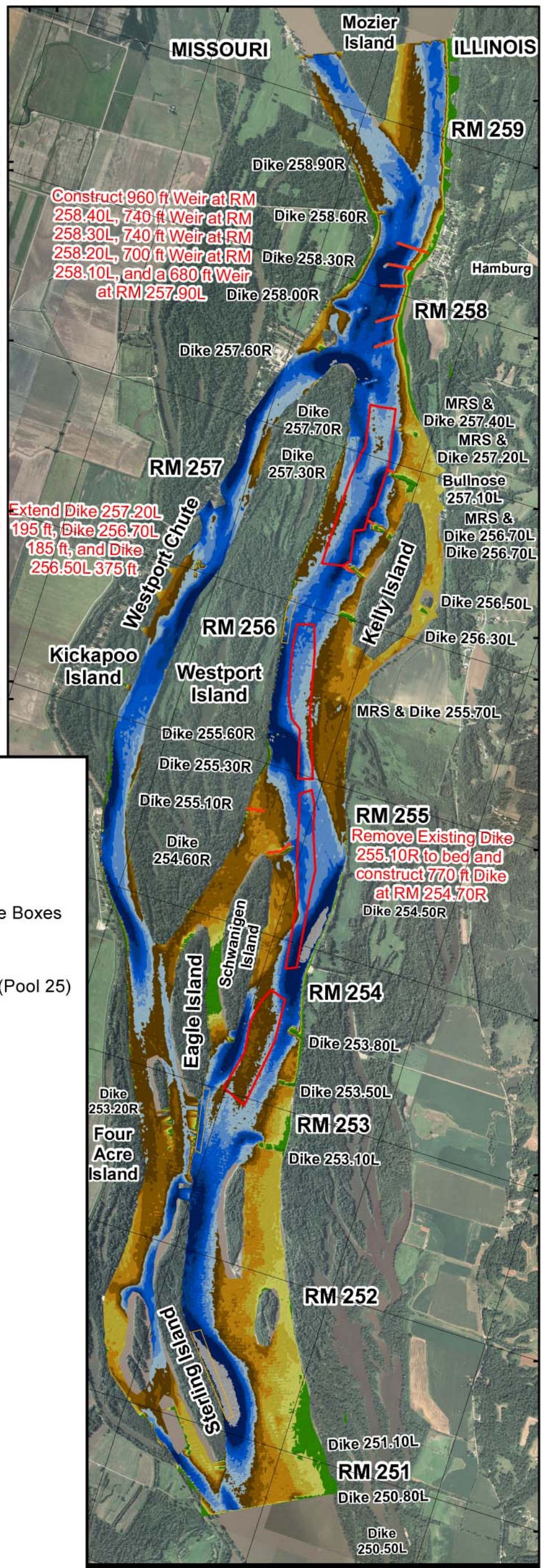
APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers St. Louis District®



Replication



Alternative 34

Legend

- Proposed Alternative
- Existing Dikes
- Representative Dredge Boxes
- Waiting Points

Feet Below Minimum Pool (Pool 25)

- 10 - 0.00
- 10 - 0
- 0 - -2
- -2 - -4
- -4 - -6
- -6 - -8
- -8 - -10
- -10 - -12
- -12 - -14
- -14 - -16
- -16 - -18
- -18 - -20
- -20 - -30
- -30 - -40
- -40 - -50
- -55.74

PLATE NUMBER 61

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 34
2009 Aerial Photograph

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	DESIGNED BY: A Cox		SURVEY DATE: 12/12/2012
	DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
Mississippi River Basin St. Louis District Westport HSR Model	SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
	FILE NAME: L:\Westport\Plates		PLOT DATE: 12/19/2012

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APPLIED RIVER ENGINEERING CENTER

US Army Corps of Engineers St. Louis District®

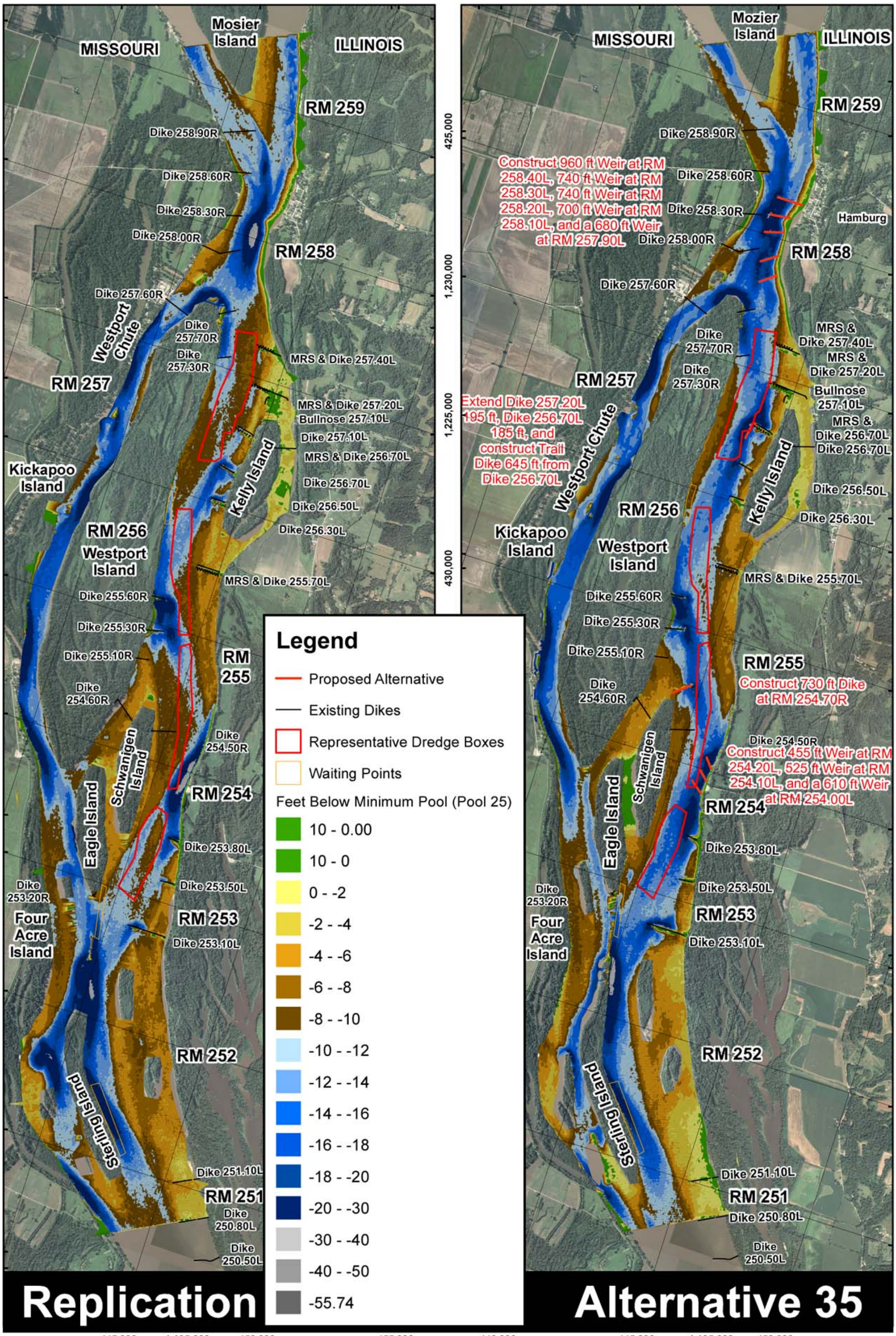

PLATE NUMBER 62

0 625 1,250 2,500 3,750 5,000 Feet

Replication vs. Alternative 35
2009 Aerial Photograph

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

Mississippi River Basin
St. Louis District
Westport
HSR Model

DESIGNED BY: A Cox		SURVEY DATE: 12/19/2012
DRAWN BY: A Cox	REVIEWED BY: E Brauer, P.E.	CHECKED BY: J Brown, P.E.
SUBMITTED: A Cox		APPROVED: Rob Davinroy, P.E.
FILE NAME: L:\Westport\Plates		PLOT DATE: 12/21/2012

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US Army Corps of Engineers
St. Louis District