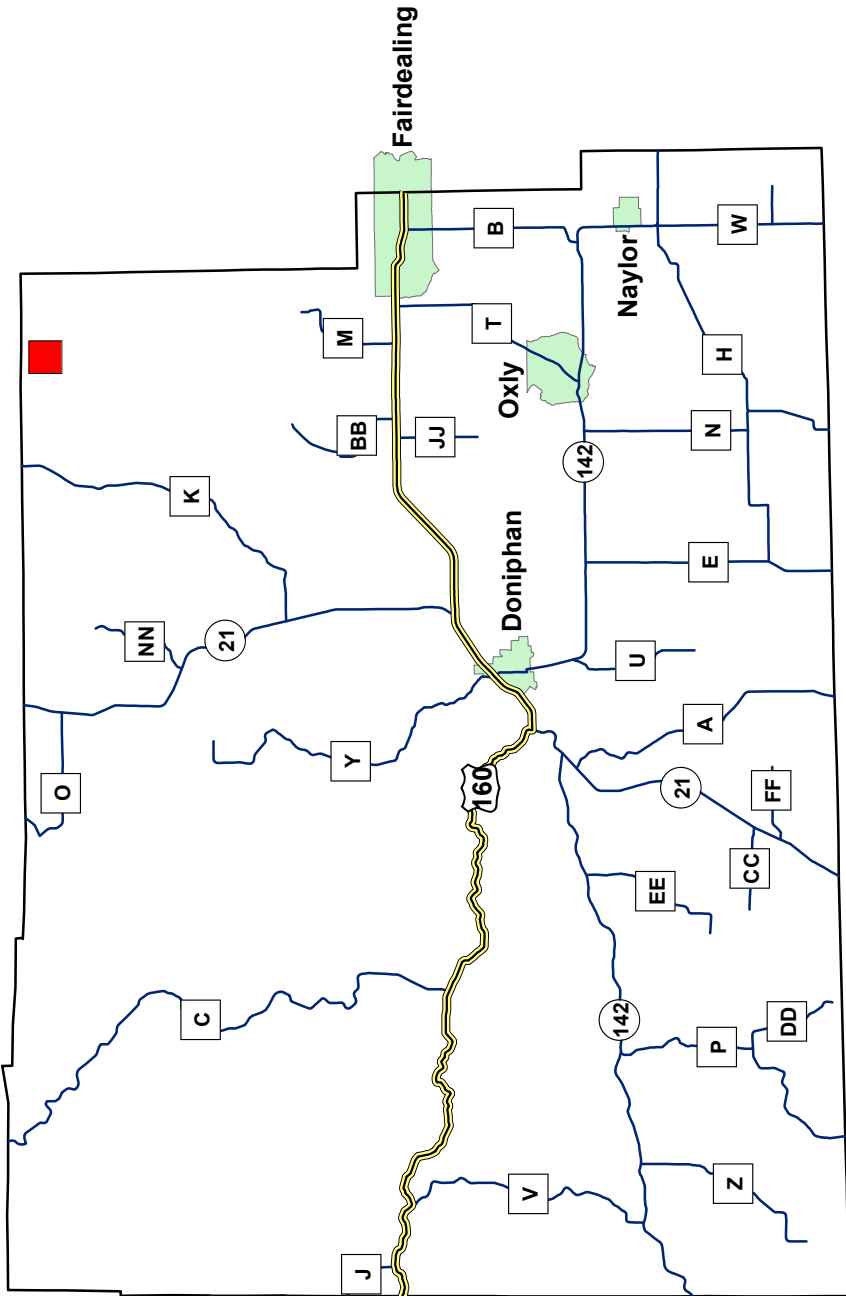


Butler County Hazard Mitigation Plan, 2022

Appendix B – Dam Inundation Maps

- Ripley County – Upper Little Black A-7 Dam
- Ripley County – Upper Little Black D-8 Dam
- Ripley County – Upper Little Black D-2 Dam
- Ripley County – Upper Little Black A-2 Dam

Upper Little Black A-7 Dam Breach Inundation Map



Ripley County, Missouri
RIPLEY_MO31829



Missouri
 Department of
 Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

Note: Actual areas inundated will depend on the actual dam failure criteria and may differ from the areas shown. Due to limitations, methods, assumptions, and procedures used to develop the inundation area, the map should only be used for evacuation planning and emergency purposes.

Explanation Sheet

Project: **Upper Little Black A-7
Dam Breach Analysis**

Drawing Title: **Explanation Sheet 1 of 1**



Project ID: RIPLEY_MO31829

Explanation of Maps

The following maps indicate the areas which are predicted to be inundated during the occurrence of a sunny day breach of the dam. The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway.

Use of Maps

The following maps provide a baseline for evaluation of existing emergency action plans and environmental hazards downstream of the regulated structure.

Definition of Terms

Pool Elevation- Water level in the reservoir.

Dam Crest- The lowest elevation measured along the dam crest.

Spillway Crest- The lowest elevation measured along the crest of the spillway.

Arrival Time- Elapsed time between the breach initiation and the time that water levels first begin to rise at any given point.

Assumed Conditions of Flooding

The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway. The assumed overtopping erodes a section of the dam resulting in a dangerous and quick release of water. For the hydraulic analysis flow initiation is required and therefore a baseflow of water has been included in the analysis.

Dam Facts

ID: MO_31829

County: Ripley

Location: S19, T25 N, R04 E

Height of Dam: 54'

Tributary: North Prong Beaverdam Creek

Lake Area: 64 acres

Max Storage Capacity: 6022 ac-ft

Breach Parameters (Froehlich, 1995)

Side slopes: 1.4:1

Bottom width: 123.5'

Bottom elevation: 504'

Breach formation time: 0.77 hr

Pool Elevation at Failure: 548.5'

Pool Volume at Failure: 4120 ac-ft

Downstream Crossings

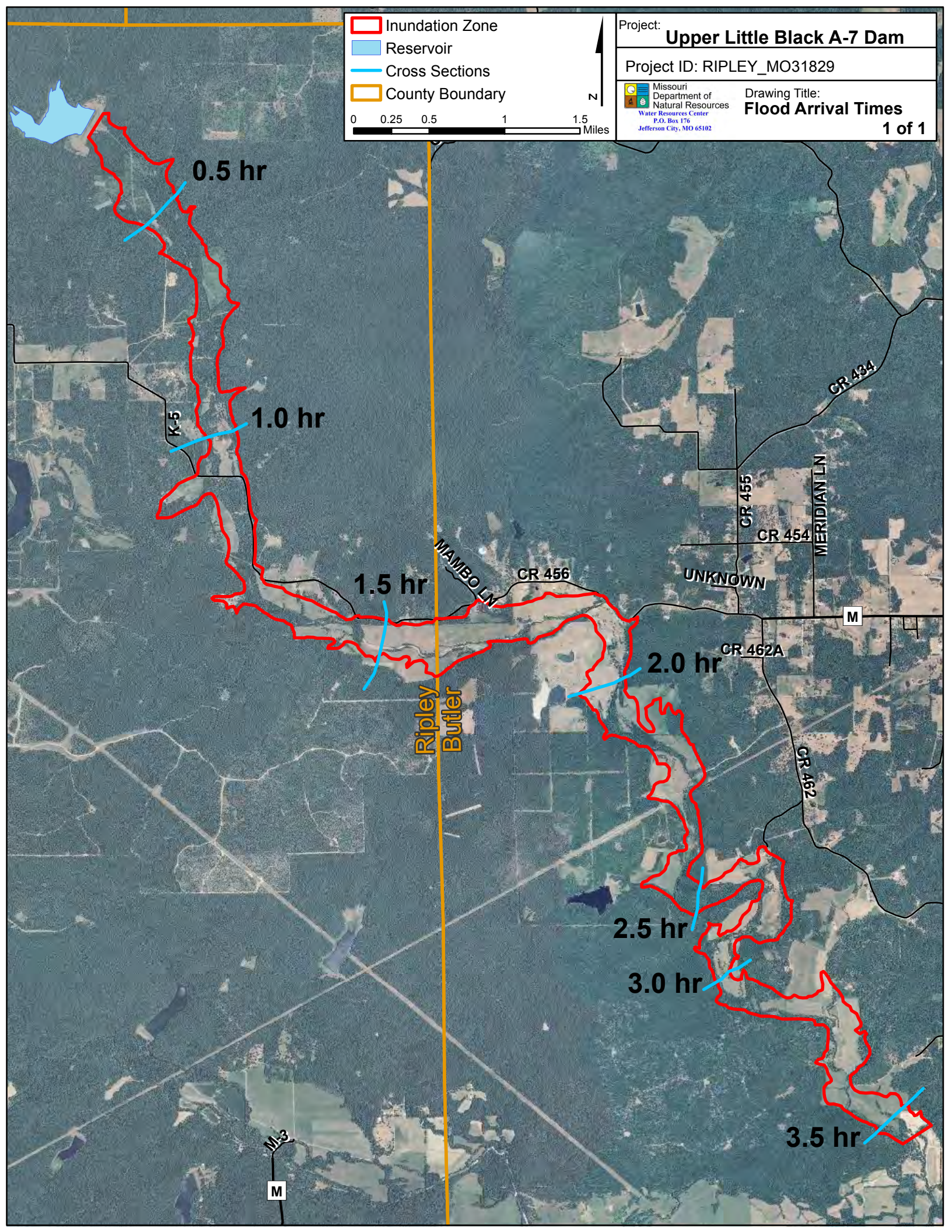
Co Rd K-5

**NOTE: LiDAR Elevation data unavailable for Ripley County.
Analysis was completed with 10 meter Digital Elevation Model.**

- Inundation Zone
- Reservoir
- Cross Sections
- County Boundary




Project: Upper Little Black A-7 Dam	
Project ID: RIPLEY_MO31829	
Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102	Drawing Title: Flood Arrival Times <div style="text-align: right;">1 of 1</div>



- Inundation Zone
- Reservoir
- County Boundary

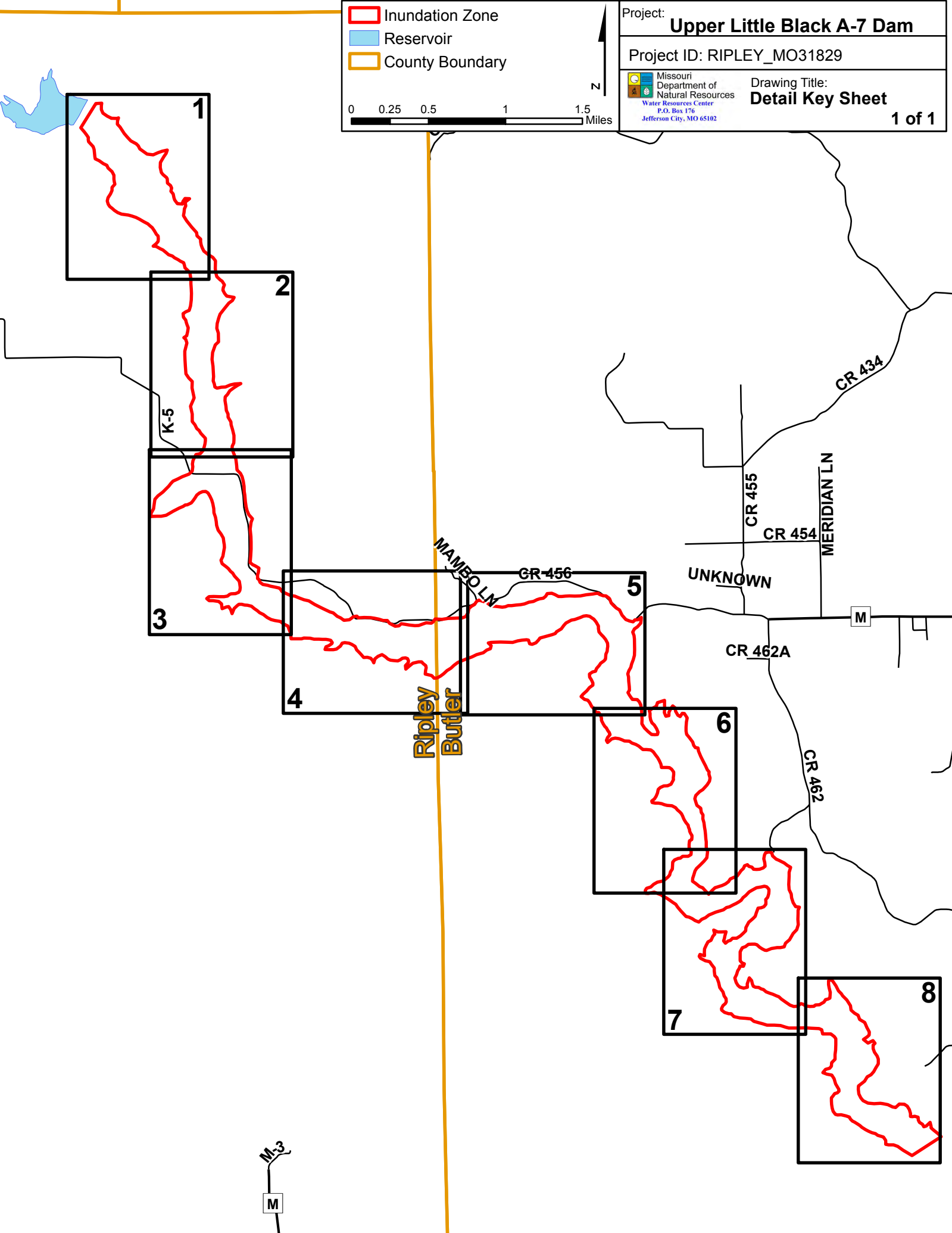
Project: **Upper Little Black A-7 Dam**

Project ID: RIPLEY_MO31829


 Missouri Department of Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

Drawing Title: **Detail Key Sheet**

1 of 1



 Inundation Zone

 Reservoir

Project: **Upper Little Black A-7 Dam**

Project ID: RIPLEY_MO31829

 Missouri
Department of
Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Detail Sheet 1 of 8

0 250 500 1,000
Feet



Flow Direction 



 Inundation Zone

Project: **Upper Little Black A-7 Dam**

Project ID: RIPLEY_MO31829

 Missouri
Department of
Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

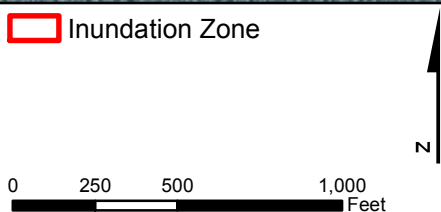
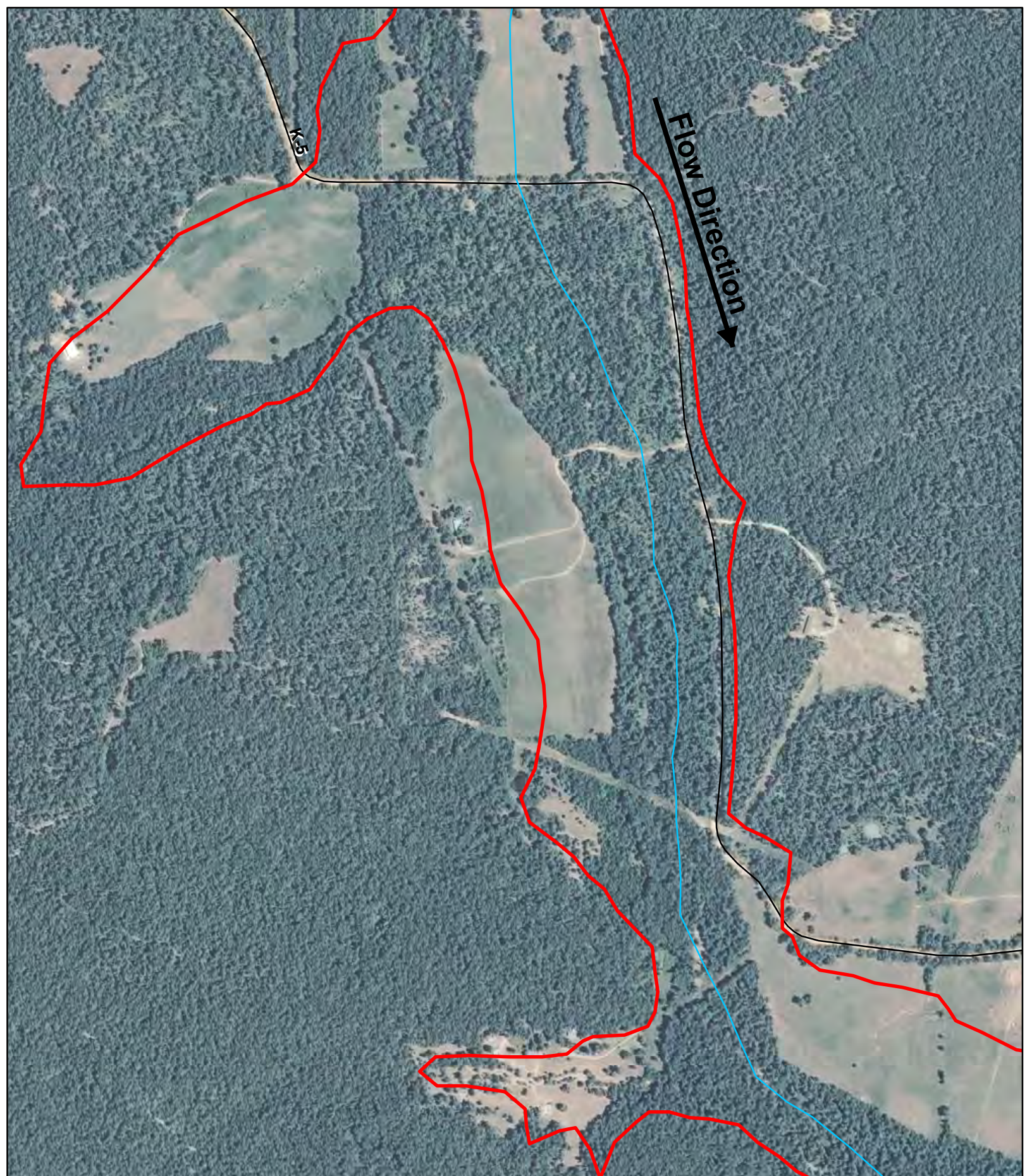
Drawing Title:
Detail Sheet 2 of 8

0 250 500 1,000
Feet

N


Flow Direction

K-5

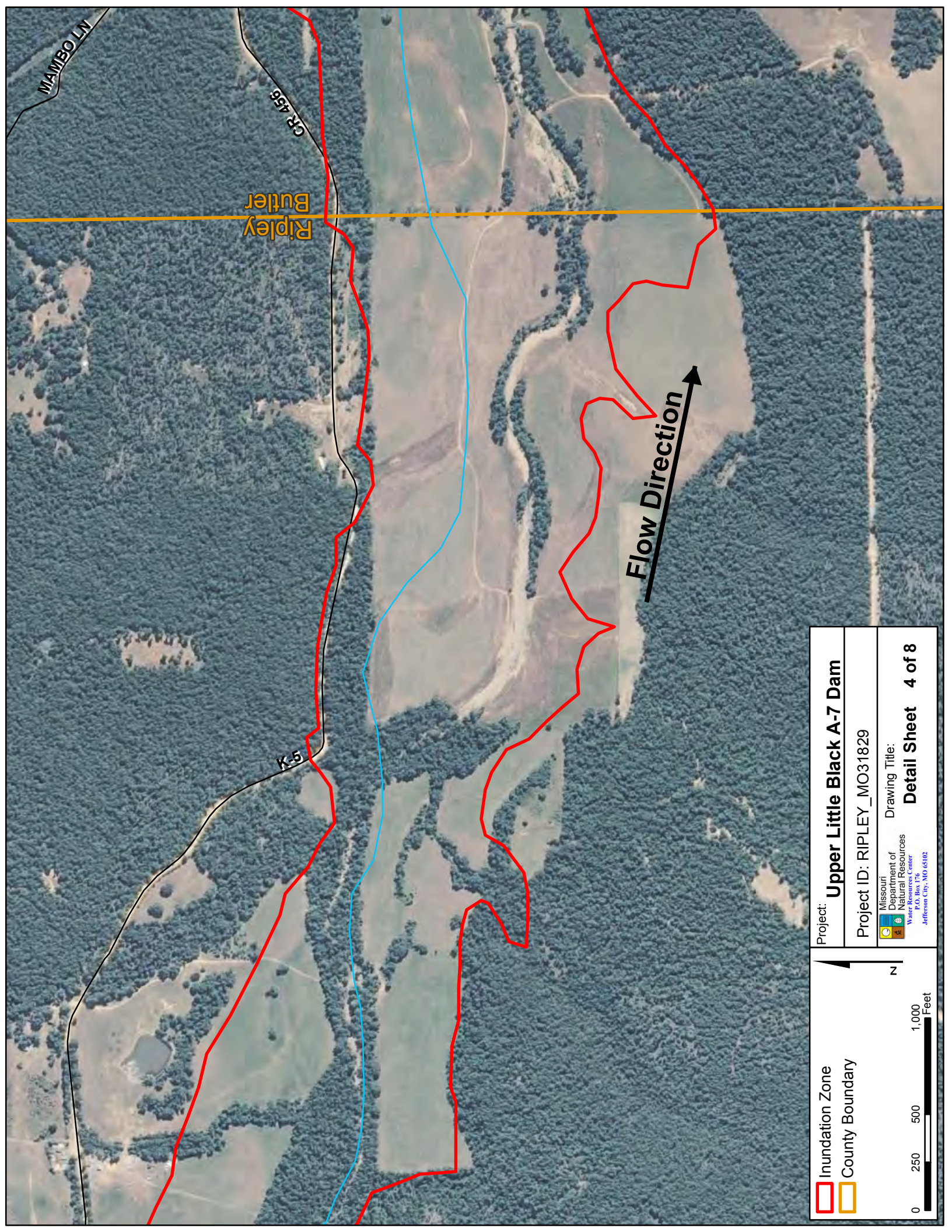


Project: **Upper Little Black A-7 Dam**

Project ID: RIPLEY_MO31829

 Missouri Department of Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Detail Sheet 3 of 8



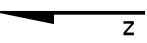


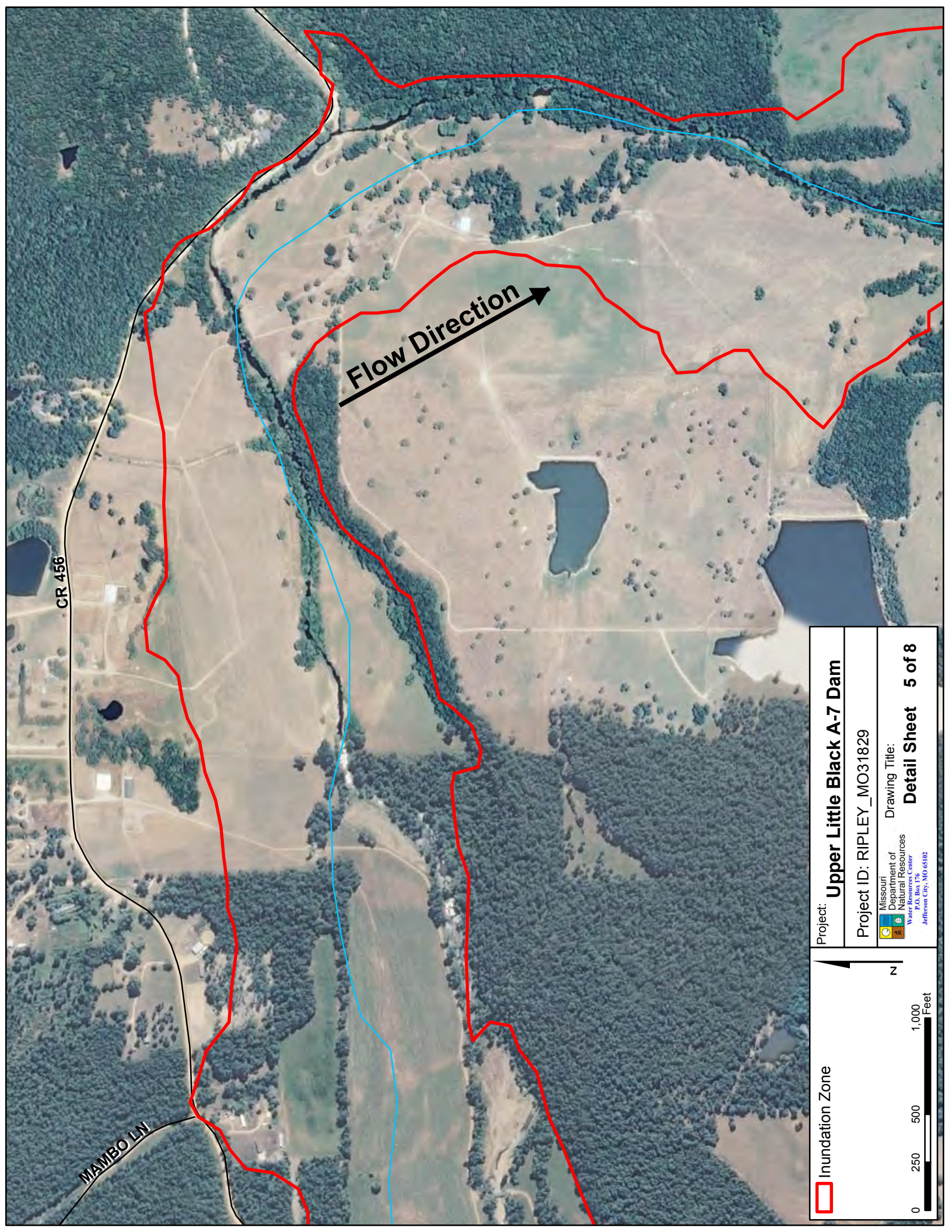
MIAMBO LN

Ripley
Butler

K-5

Flow Direction



 Inundation Zone  County Boundary	Project: Upper Little Black A-7 Dam
	Project ID: RIPLEY_MO31829
	Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102
	Drawing Title: Detail Sheet 4 of 8
	 0 250 500 1,000 Feet



Flow Direction →


CR 456

MAMBO LN

 Inundation Zone	Project: Upper Little Black A-7 Dam
	Project ID: RIPLEY_MO31829
0 250 500 1,000 Feet	 Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102
	Drawing Title: Detail Sheet 5 of 8



Flow Direction 

 Inundation Zone



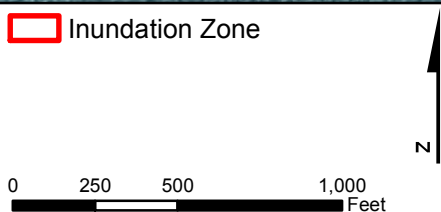
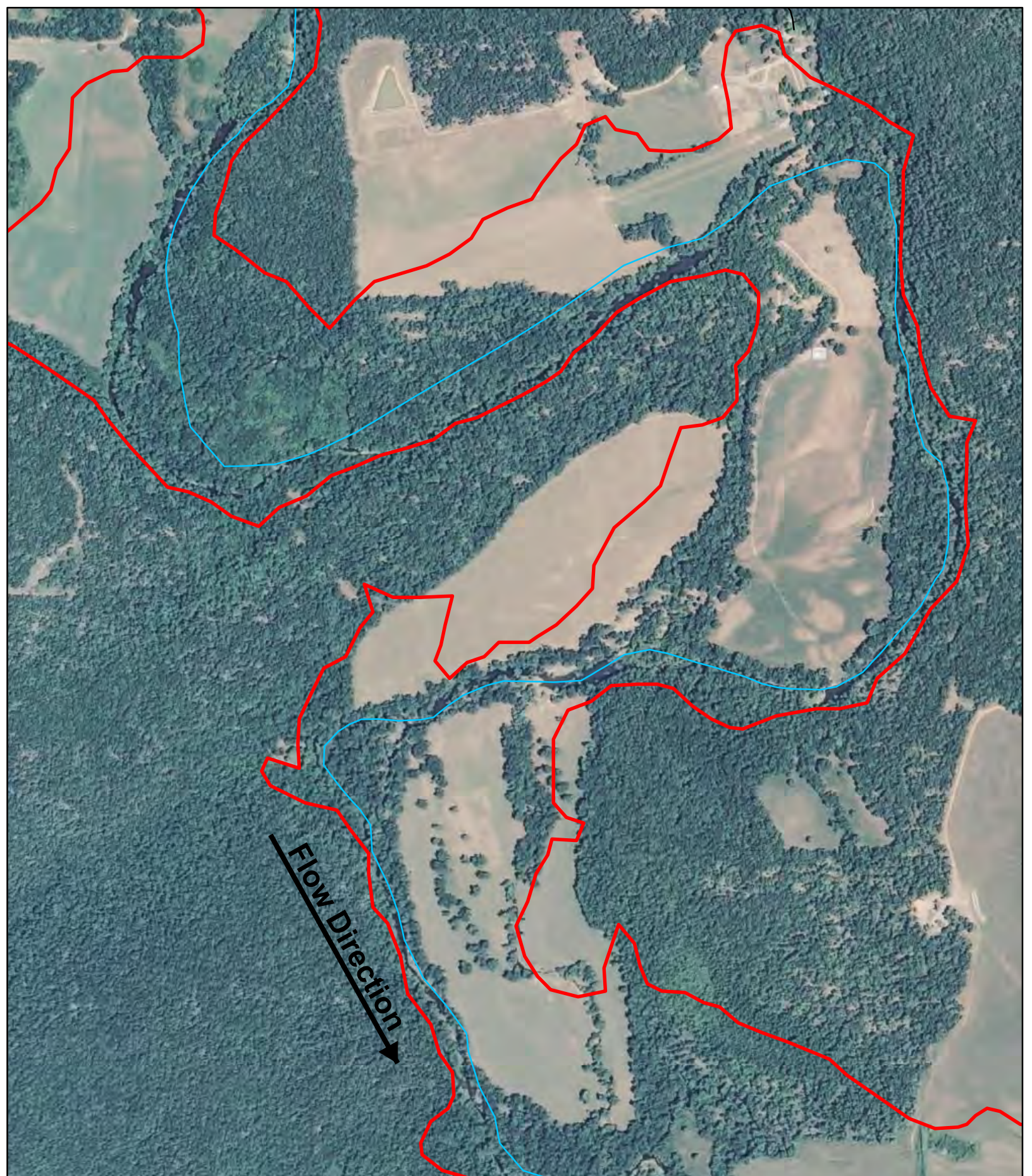
0 250 500 1,000
Feet

Project: **Upper Little Black A-7 Dam**

Project ID: RIPLEY_MO31829

 Missouri Department of Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Detail Sheet 6 of 8

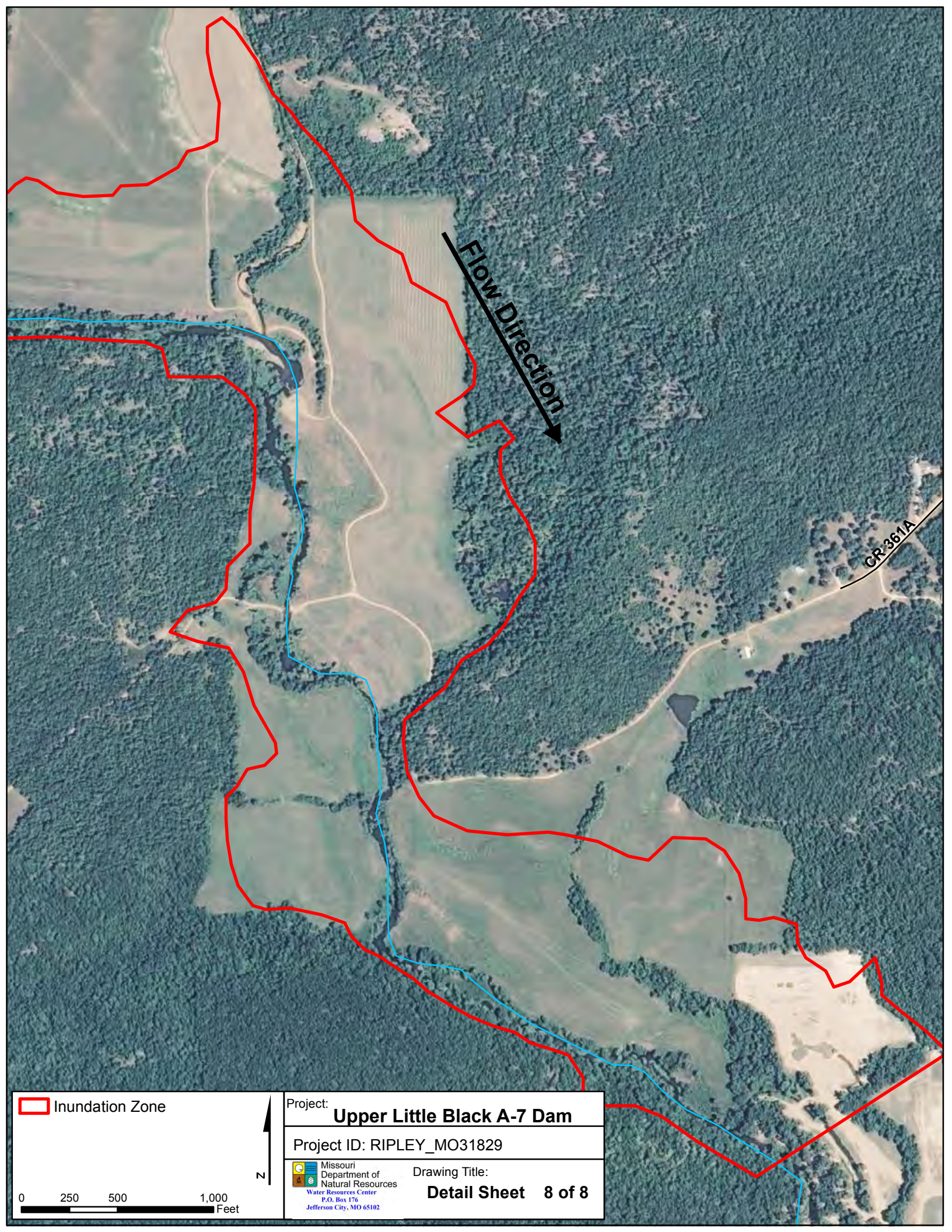


Project: **Upper Little Black A-7 Dam**

Project ID: RIPLEY_MO31829


 Missouri Department of Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

Drawing Title:
Detail Sheet 7 of 8



Flow Direction

CR-361A


 Inundation Zone

N

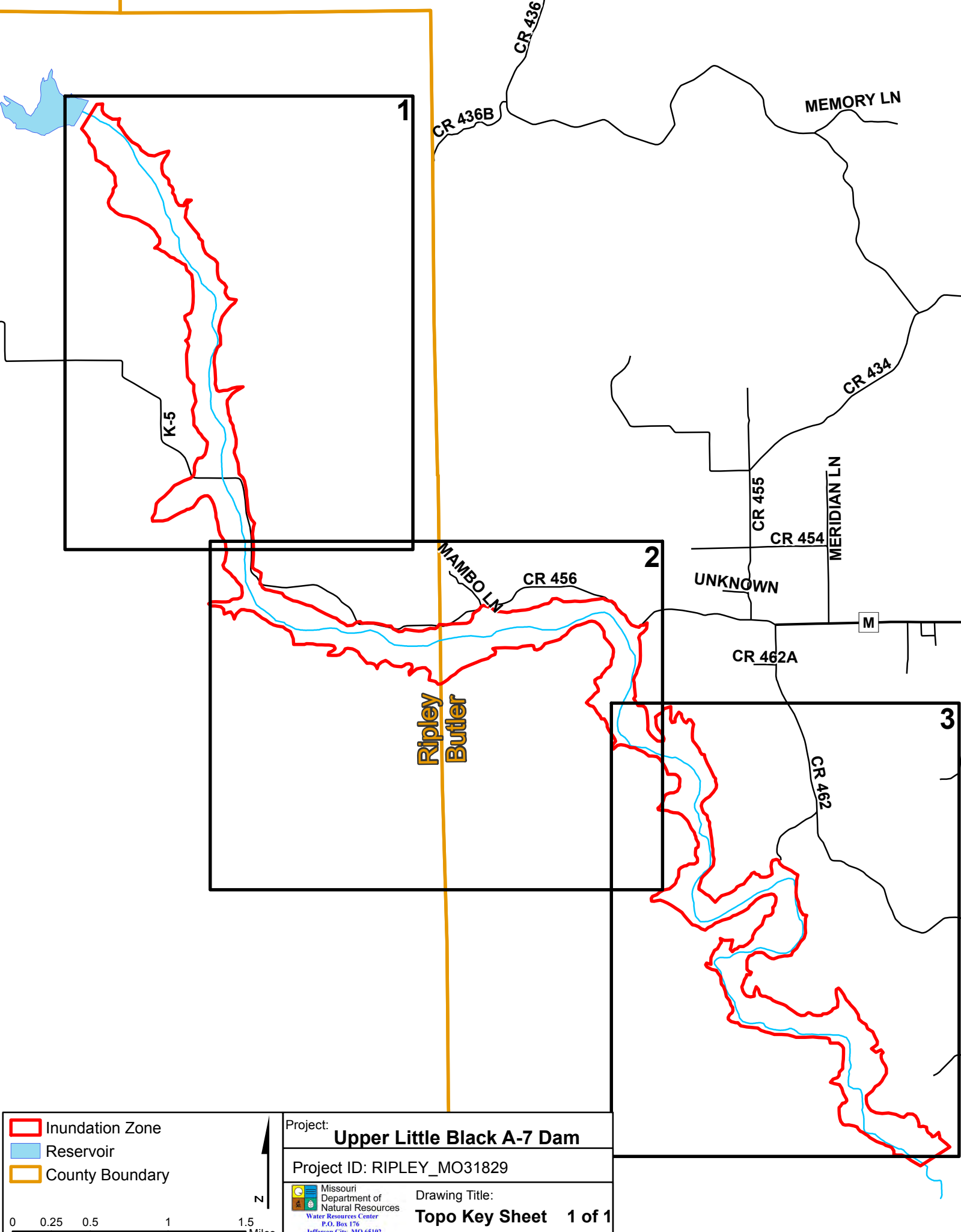
0 250 500 1,000
Feet

Project: **Upper Little Black A-7 Dam**

Project ID: RIPLEY_MO31829

 Missouri Department of Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Detail Sheet 8 of 8



Inundation Zone
 Reservoir
 County Boundary

0 0.25 0.5 1 1.5
 Miles

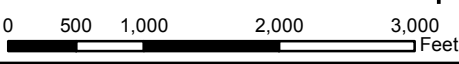
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Project: **Upper Little Black A-7 Dam**
 Project ID: RIPLEY_MO31829
 Drawing Title: **Topo Key Sheet 1 of 1**

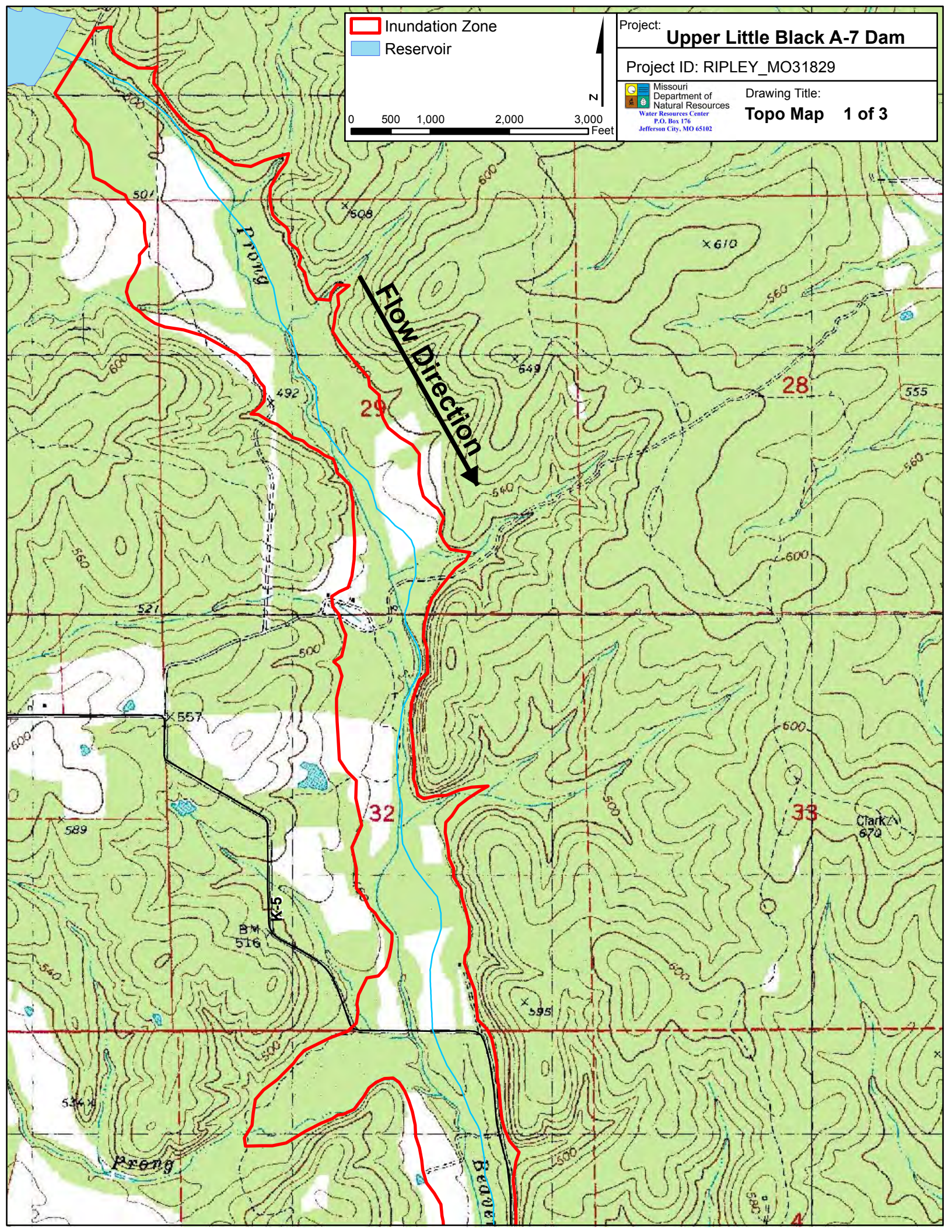
Missouri Department of Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

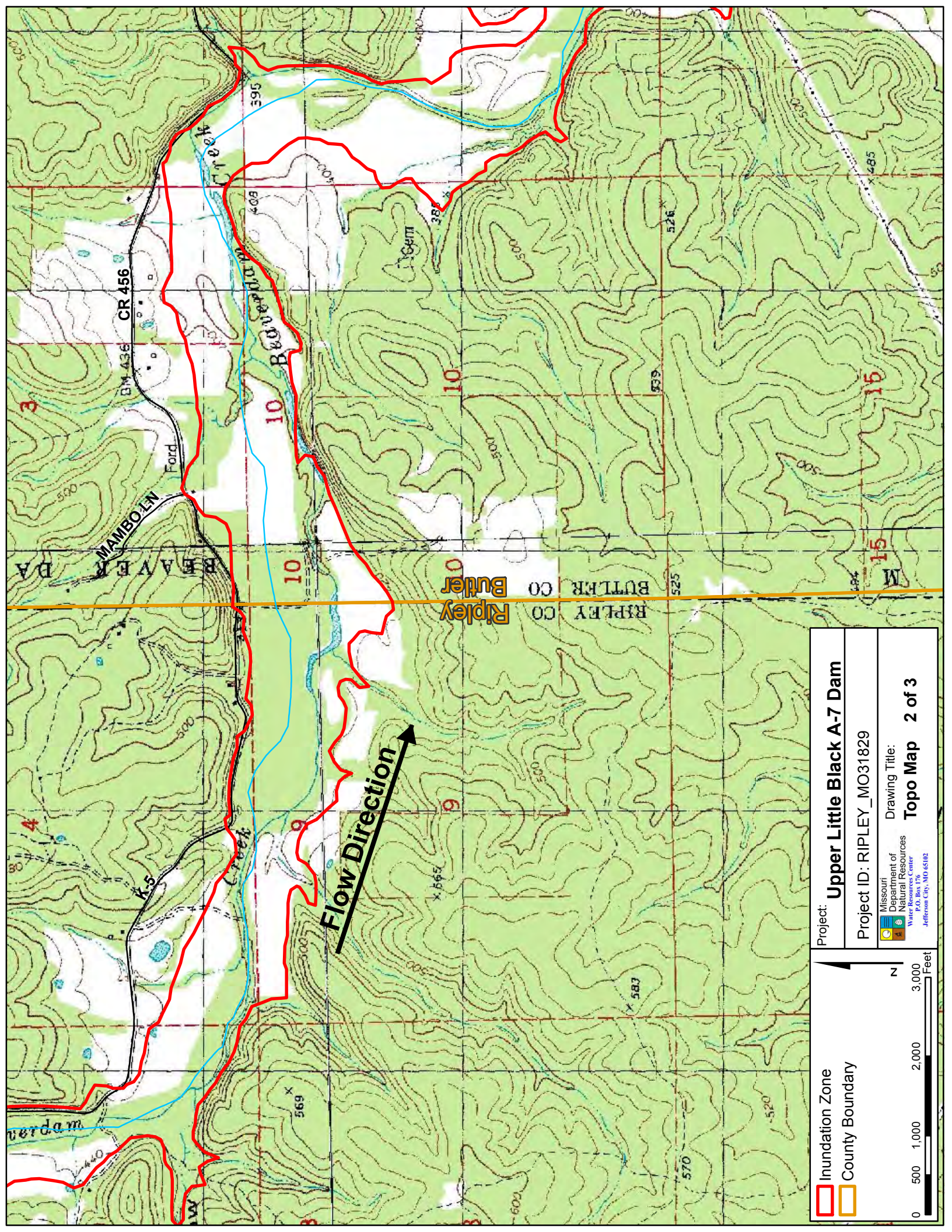
Inundation Zone
Reservoir






Project: **Upper Little Black A-7 Dam**
Project ID: RIPLEY_MO31829
Drawing Title: **Topo Map 1 of 3**
Missouri Department of Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102



N





 Inundation Zone  County Boundary	
	Project: Upper Little Black A-7 Dam Project ID: RIPLEY_MO31829
 Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102	
Drawing Title: Topo Map 2 of 3	
 0 500 1,000 2,000 3,000 Feet	

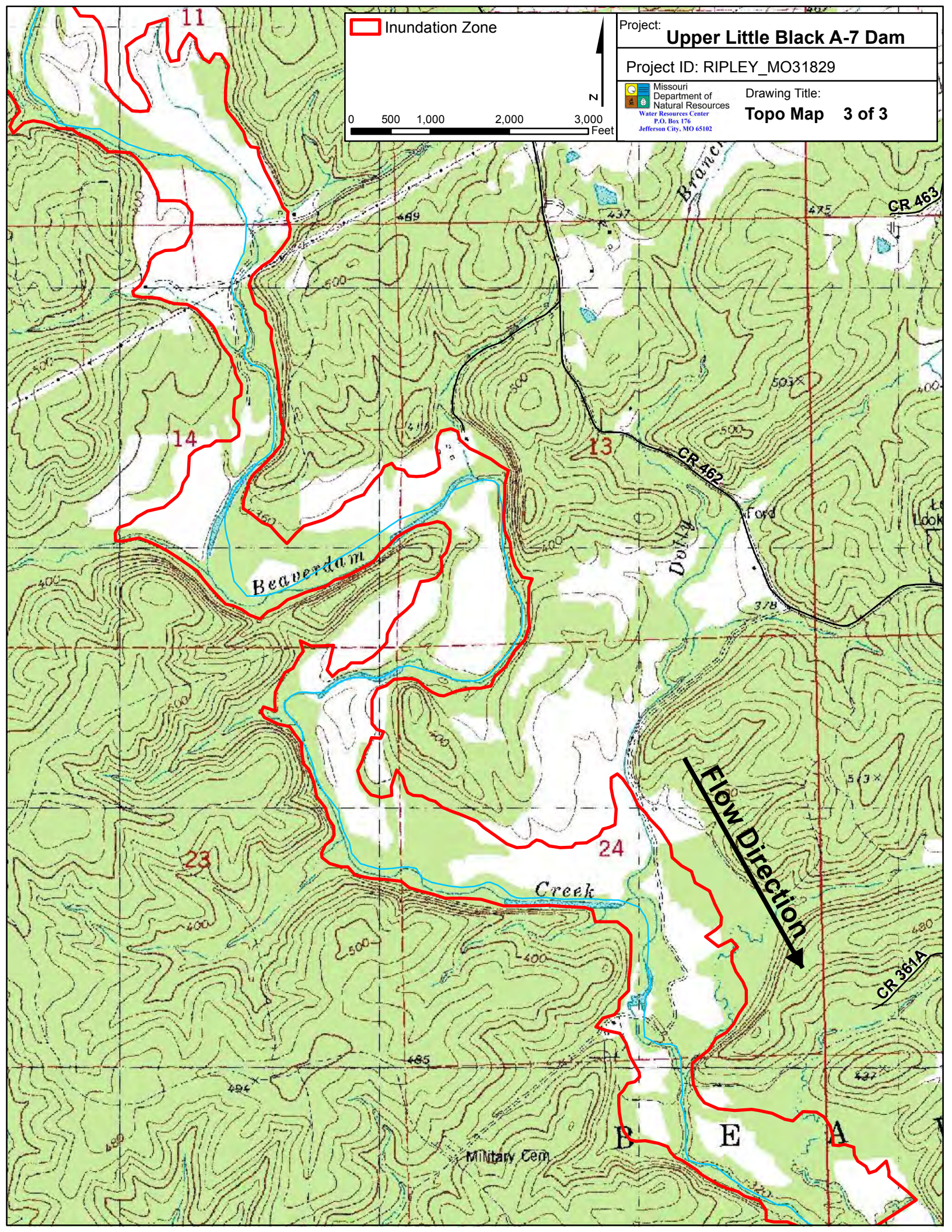
Inundation Zone

Project: **Upper Little Black A-7 Dam**

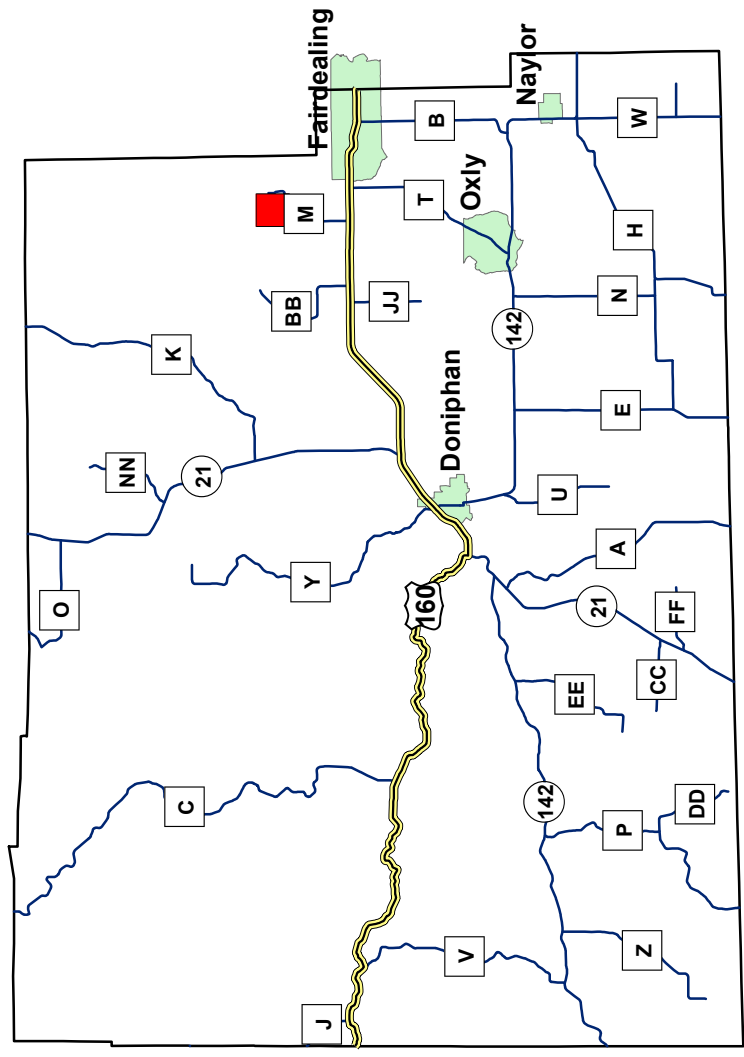
Project ID: RIPLEY_MO31829

Missouri Department of Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Topo Map 3 of 3



Upper Little Black Dam D-8 Dam Breach Inundation Map




Ripley County, Missouri
RIPLEY_MO31861



Missouri
 Department of
 Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

Note: Actual areas inundated will depend on the actual dam failure criteria and may differ from the areas shown. Due to limitations, methods, assumptions, and procedures used to develop the inundation area, the map should only be used for evacuation planning and emergency purposes.

Explanation Sheet

Project: Upper Little Black D-8 Dam Breach Analysis
Drawing Title: Explanation Sheet 1 of 1
 Missouri Department of Natural Resources Water Resources Center 1001 W. 10th St., Jefferson City, MO 65102 Project ID: RIPLEY_MO31861

Explanation of Maps

The following maps indicate the areas which are predicted to be inundated during the occurrence of a sunny day breach of the dam. The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway.

Use of Maps

The following maps provide a baseline for evaluation of existing emergency action plans and environmental hazards downstream of the regulated structure.

Definition of Terms

Pool Elevation- Water level in the reservoir.

Dam Crest- The lowest elevation measured along the dam crest.

Spillway Crest- The lowest elevation measured along the crest of the spillway.

Arrival Time- Elapsed time between the breach initiation and the time that water levels first begin to rise at any given point.

Assumed Conditions of Flooding

The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway. The assumed overtopping erodes a section of the dam resulting in a dangerous and quick release of water. For the hydraulic analysis flow initiation is required and therefore a baseflow of water has been included in the analysis.

Dam Facts

ID: MO_31861

County: Ripley

Location: S29, T24 N, R04 E

Height of Dam: 38'

Tributary: Unnamed trib. to Little Black River

Lake Area: 16.9 acres

Max Storage Capacity: 458 ac-ft

Breach Parameters (Froehlich, 1995)

Side slopes: 1.4:1

Bottom width: 29.8'

Bottom elevation: 359'

Breach formation time: 0.27 hr

Pool Elevation at Failure: 391.44'

Pool Volume at Failure: 319 ac-ft

Downstream Crossings

CRD M-3

NOTE: LiDAR Elevation data unavailable for most of Ripley County. Analysis was partially completed with 10 meter Digital Elevation Model.

Project: **Upper Little Black D-8 Dam**
Project ID: RIPLEY_MO31861

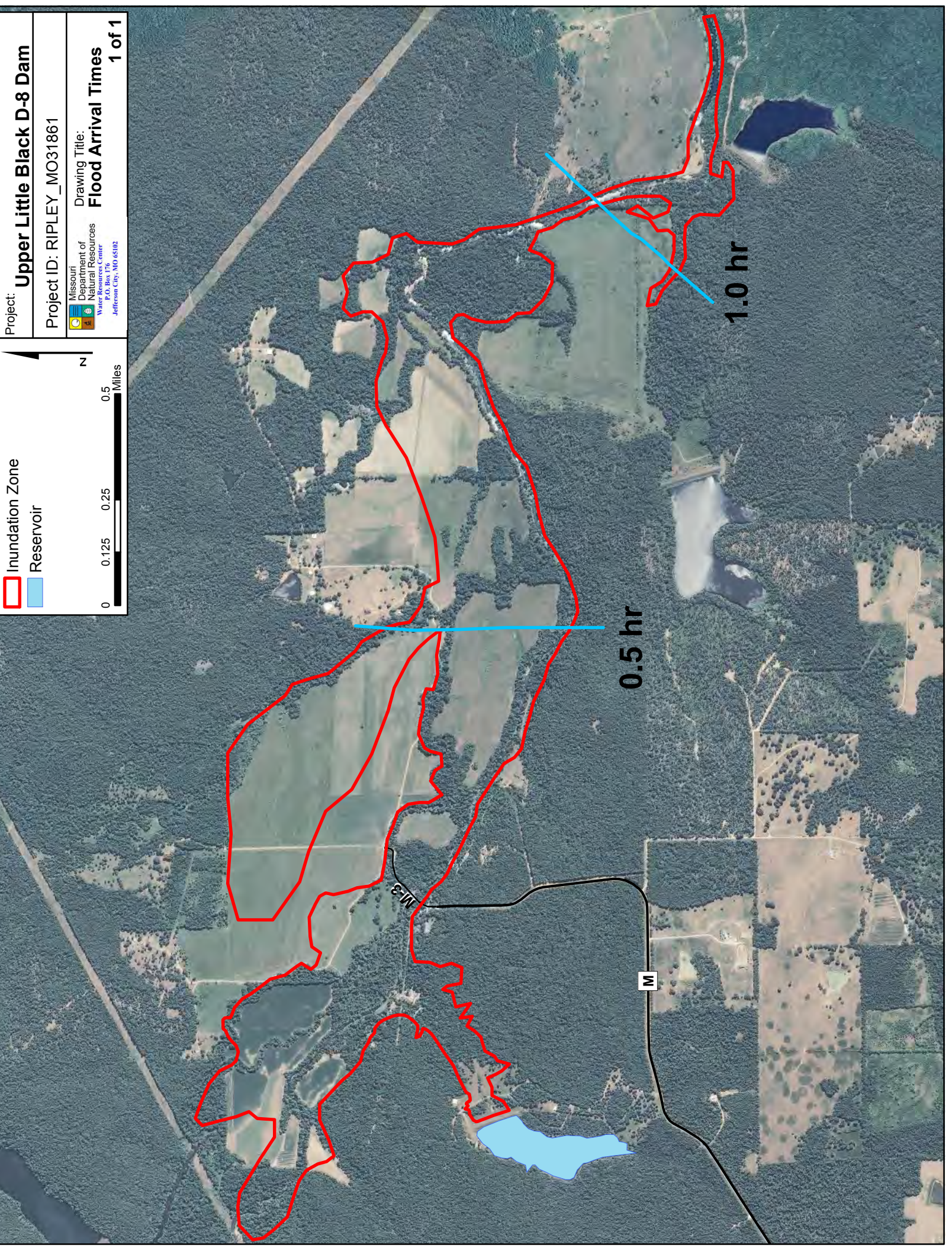
Missouri Department of Natural Resources
Water Resources Center
P.O. Box 179
Jefferson City, MO 65102

Drawing Title:
Flood Arrival Times

1 of 1




 Inundation Zone
 Reservoir




Inundation Zone
 Reservoir

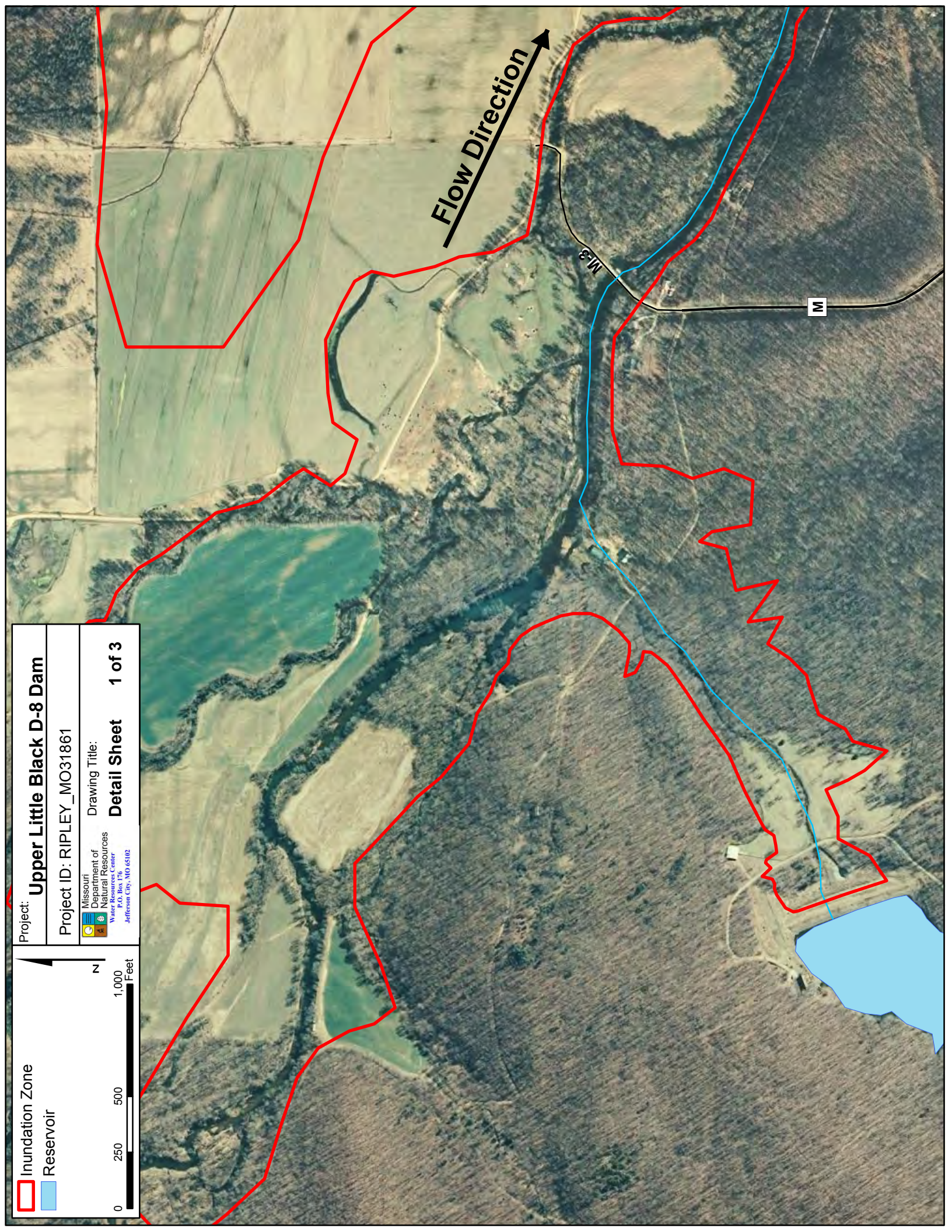
Project: **Upper Little Black D-8 Dam**
 Project ID: RIPLEY_MO31861


 Missouri Department of Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

Drawing Title:
Detail Sheet 1 of 3

 N
 0 250 500 1,000 Feet

Flow Direction 

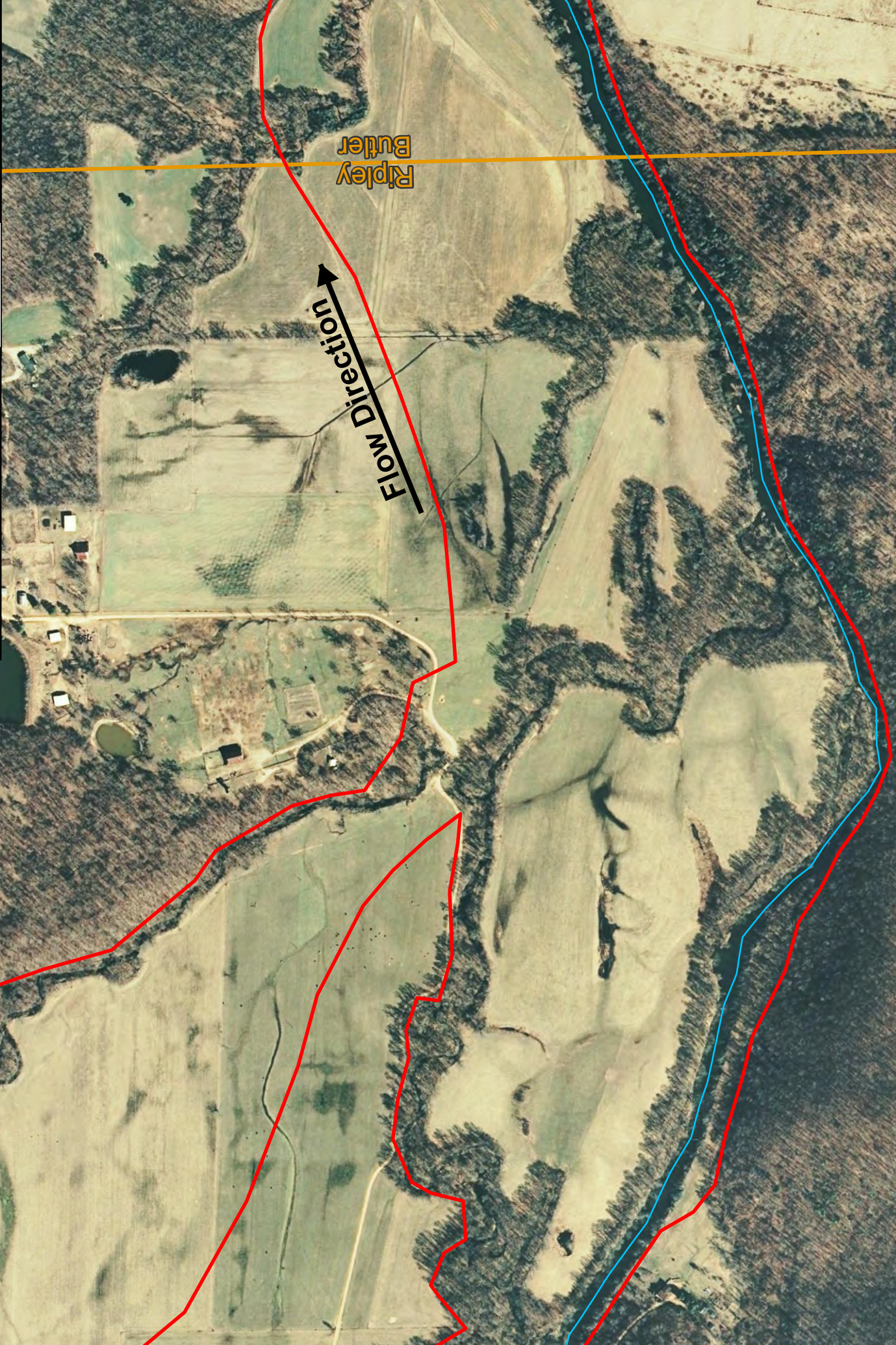



Project: **Upper Little Black D-8 Dam**
Project ID: RIPLEY_MO31861

Missouri Department of Natural Resources
Water Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Detail Sheet 2 of 3

0 250 500 1,000 Feet



 Inundation Zone

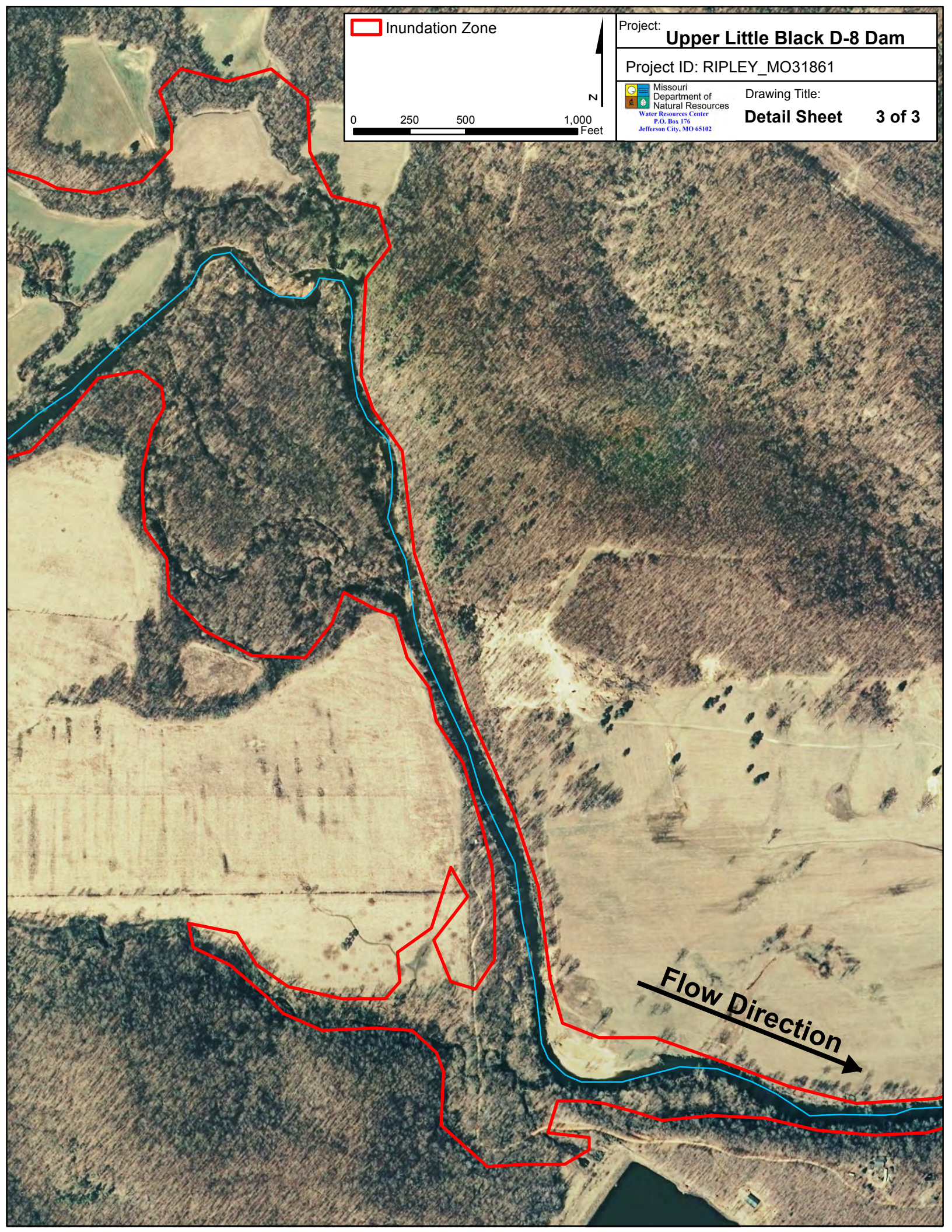
Project: **Upper Little Black D-8 Dam**

Project ID: RIPLEY_MO31861

 Missouri
Department of
Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Detail Sheet 3 of 3

0 250 500 1,000 Feet






Flow Direction 

Project: **Upper Little Black D-8 Dam**
Project ID: RIPLEY_MO31861

Missouri Department of Natural Resources
Water Resources Center
P.O. Box 174
Jefferson City, MO 65102

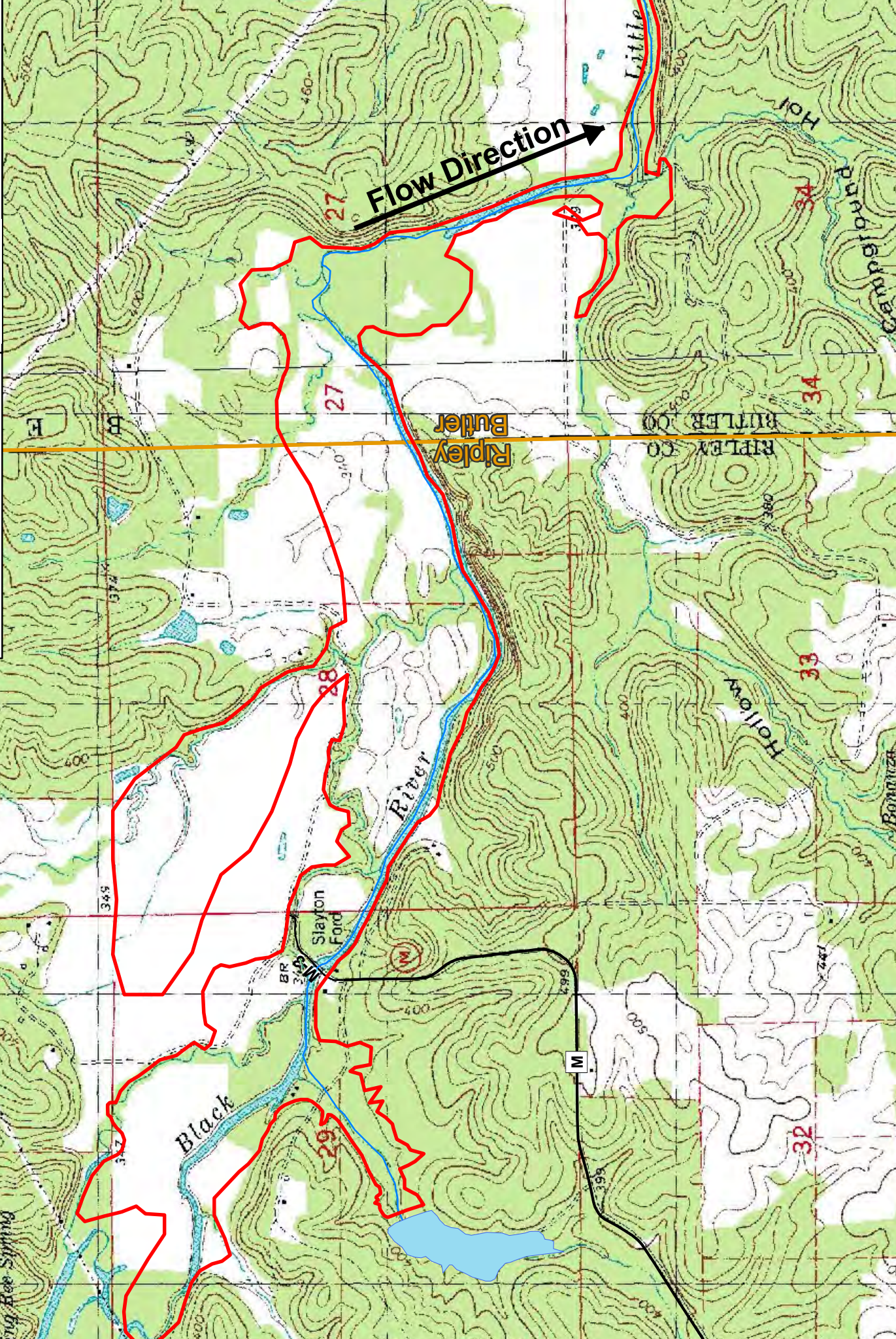
Drawing Title:
Topo Map

1 of 1

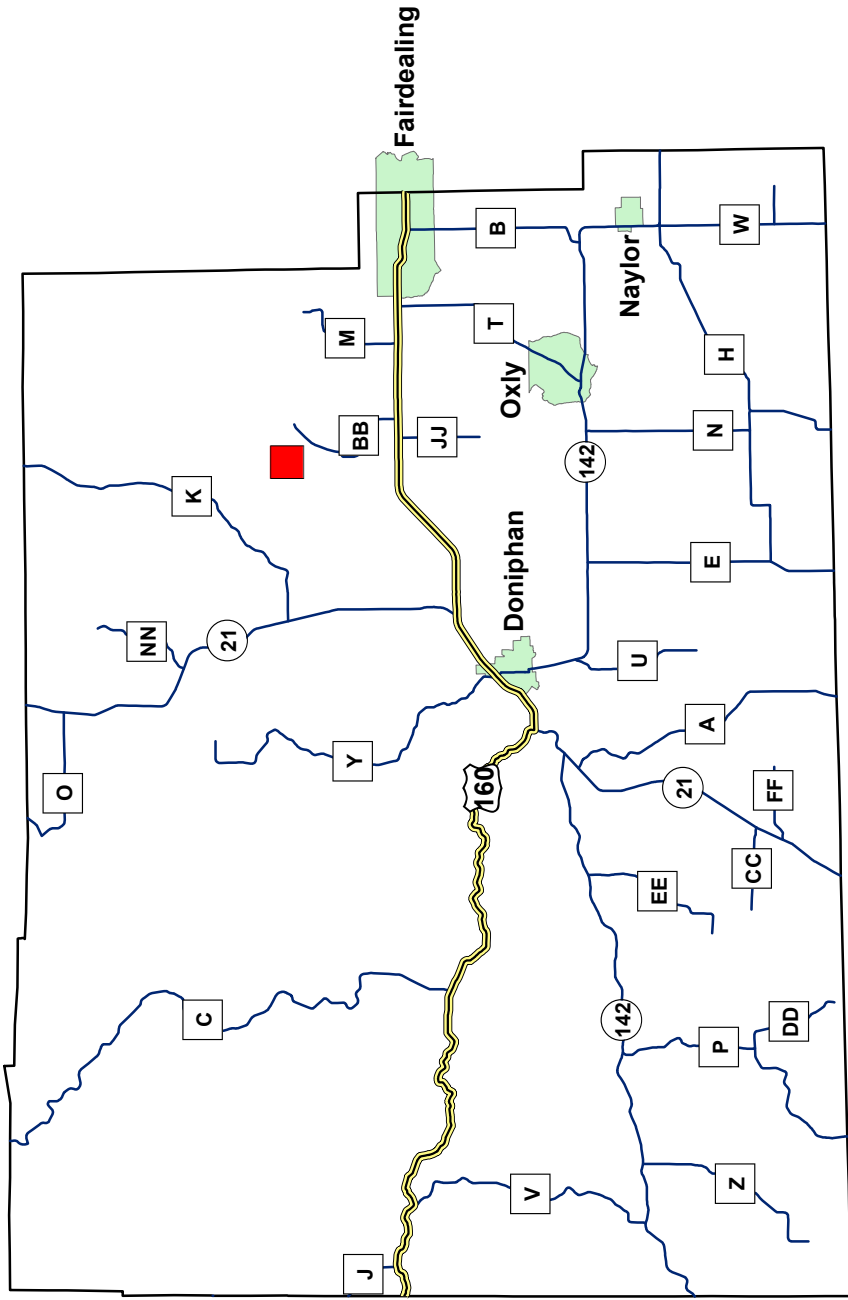
 Inundation Zone
 Reservoir
 County Boundary

0 0.125 0.25 0.5 Miles

N



Upper Little Black D-2 Breach Inundation Map



Ripley County, Missouri
RIPLEY_MO31899



Missouri
 Department of
 Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

Note: Actual areas inundated will depend on the actual dam failure criteria and may differ from the areas shown. Due to limitations, methods, assumptions, and procedures used to develop the inundation area, the map should only be used for evacuation planning and emergency purposes.

Explanation Sheet

Project: Upper Little Black D-2
Dam Breach Analysis

Drawing Title: Explanation Sheet 1 of 1



Project ID: RIPLEY_MO31899

Explanation of Maps

The following maps indicate the areas which are predicted to be inundated during the occurrence of a sunny day breach of the dam. The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway.

Use of Maps

The following maps provide a baseline for evaluation of existing emergency action plans and environmental hazards downstream of the regulated structure.

Definition of Terms

Pool Elevation- Water level in the reservoir.

Dam Crest- The lowest elevation measured along the dam crest.

Spillway Crest- The lowest elevation measured along the crest of the spillway.

Arrival Time- Elapsed time between the breach initiation and the time that water levels first begin to rise at any given point.

Assumed Conditions of Flooding

The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway. The assumed overtopping erodes a section of the dam resulting in a dangerous and quick release of water. For the hydraulic analysis flow initiation is required and therefore a baseflow of water has been included in the analysis.

Dam Facts

ID: MO_31899

County: Ripley

Location: S27, T24 N, R03 E

Height of Dam: 73'

Tributary: Flat Creek

Lake Area: 48.5 acres

Max Storage Capacity: 4820 ac-ft

Breach Parameters (Froehlich, 1995)

Side slopes: 1.4:1

Bottom width: 93.4'

Bottom elevation: 381'

Breach formation time: 0.51 hr

Pool Elevation at Failure: 440'

Pool Volume at Failure: 3235 ac-ft

Downstream Crossings

Co Rd BB-2/ HWY BB

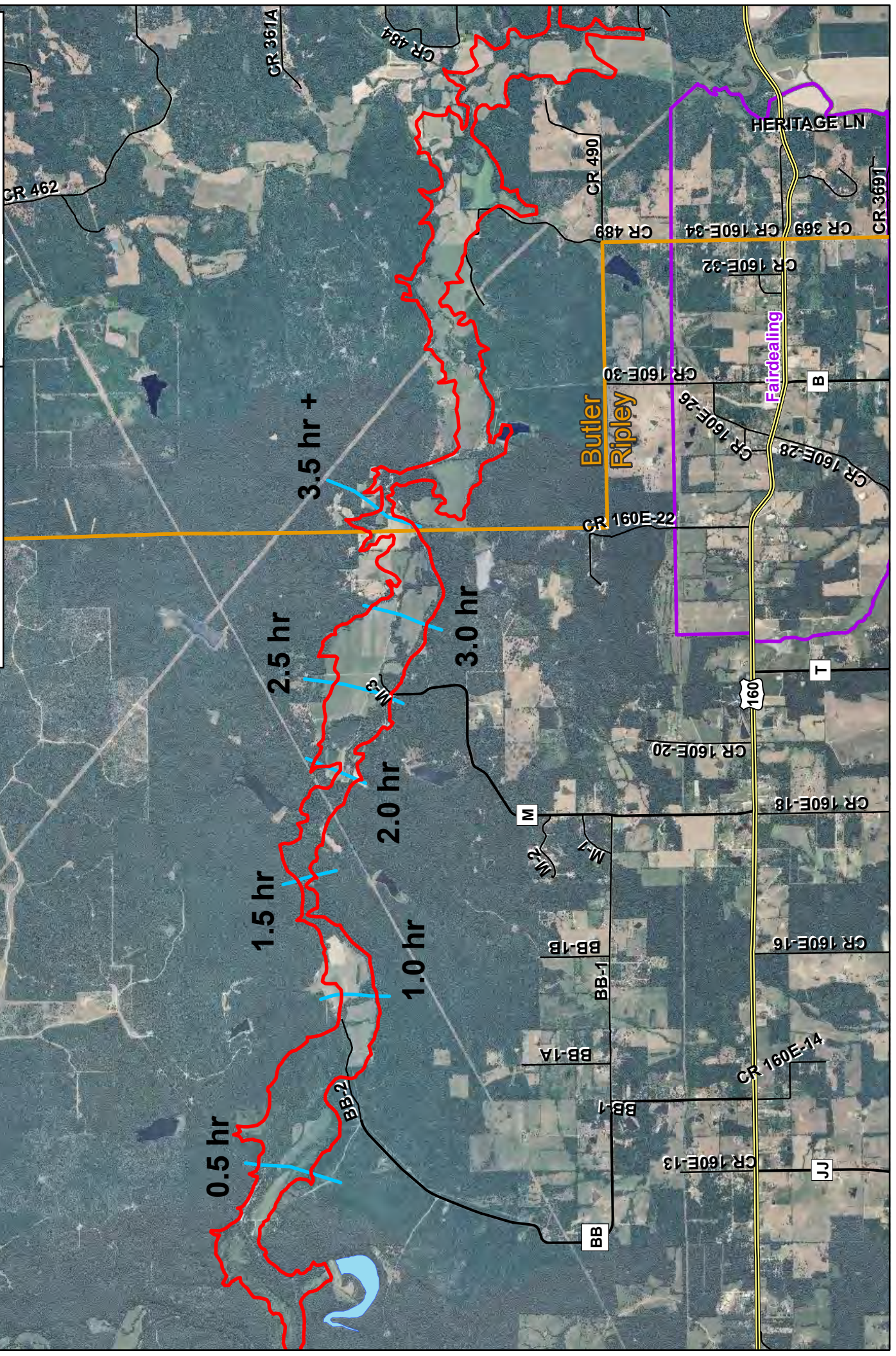
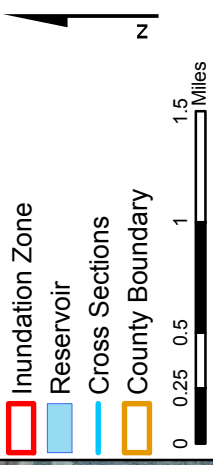
HWY M

Project: **Upper Little Black D-2 Dam**
 Project ID: RIPLEY_MO31899

Missouri Department of Natural Resources
 Water Resources Center
 Jefferson City, MO 65102

Drawing Title:
Flood Arrival Times

1 of 1

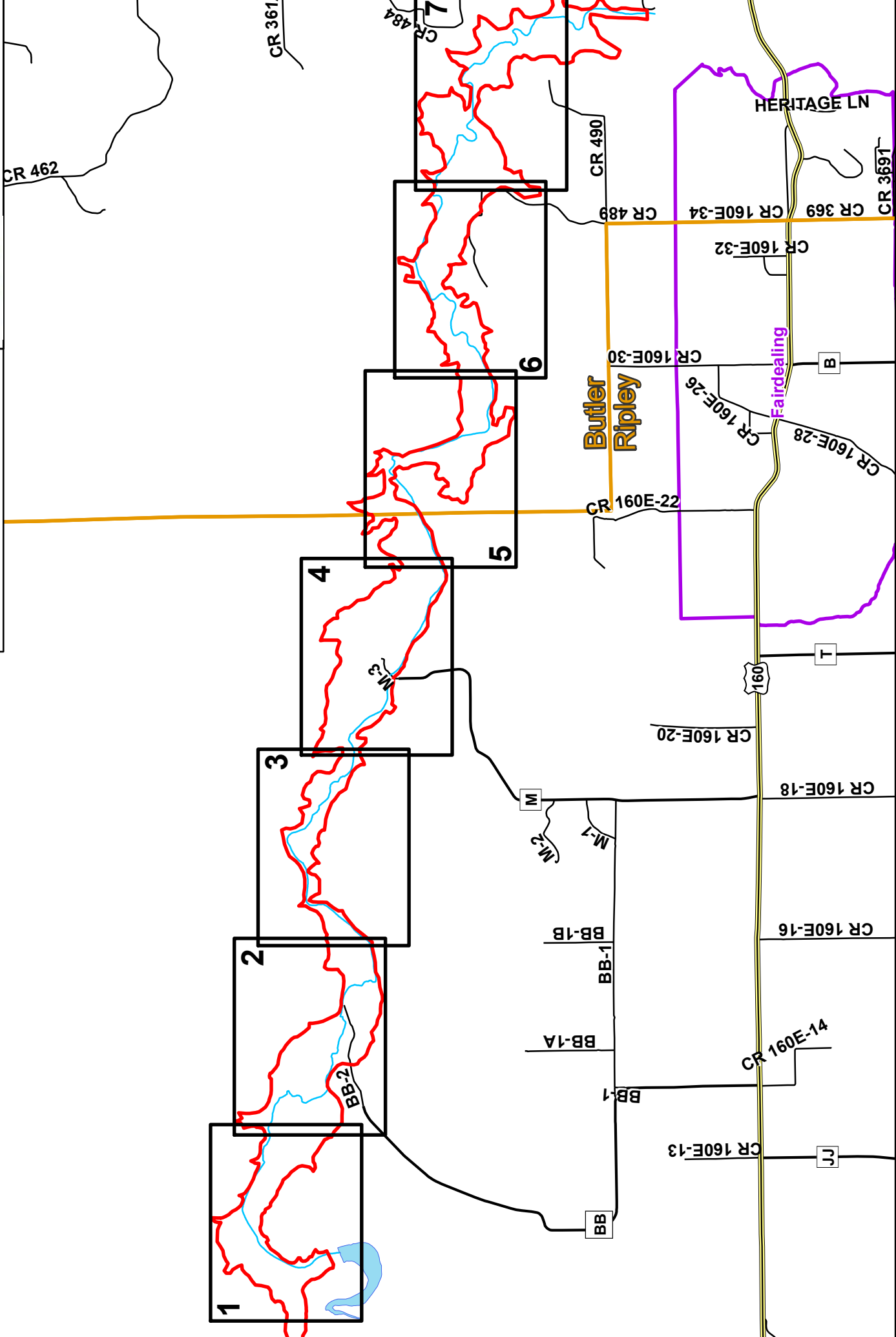


Project: **Upper Little Black D-2 Dam**
 Project ID: RIPLEY_MO31899

Missouri Department of Natural Resources
 Water Resources Center
 Jefferson City, MO 65102

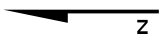
Drawing Title:
Detail Key Sheet

1 of 1



Flow Direction →

 Inundation Zone
 Reservoir





0 300 600 1,200 Feet

Project:

Upper Little Black D-2 Dam

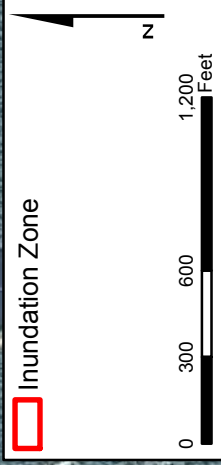
Project ID: RIPLEY_MO31899

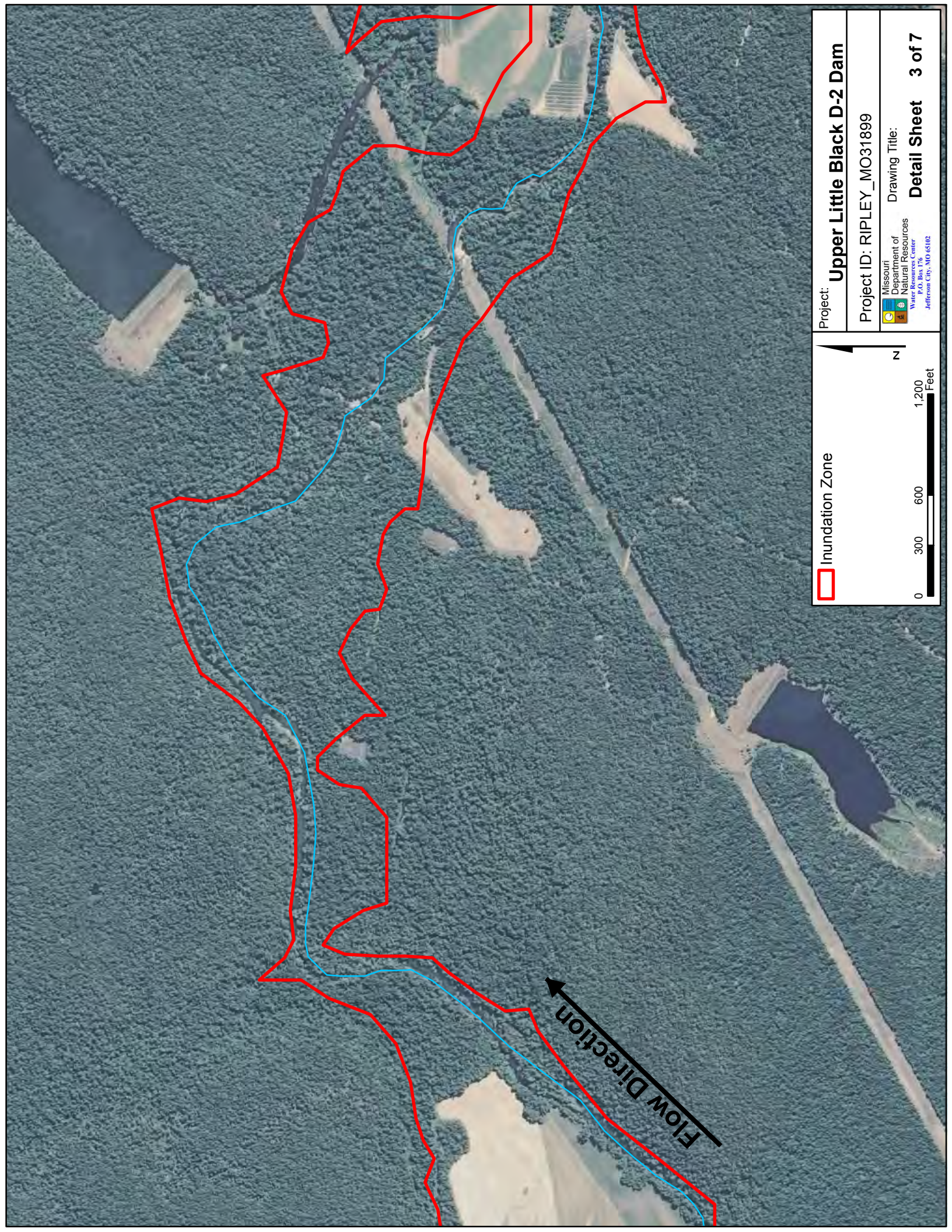
 Missouri Department of Natural Resources
 Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:

Detail Sheet 1 of 7

Project: **Upper Little Black D-2 Dam**
Project ID: RIPLEY_MO31899
Missouri Department of Natural Resources
Water Resources Center
P.O. Box 178
Jefferson City, MO 65102
Drawing Title:
Detail Sheet 2 of 7





 Inundation Zone



Project:

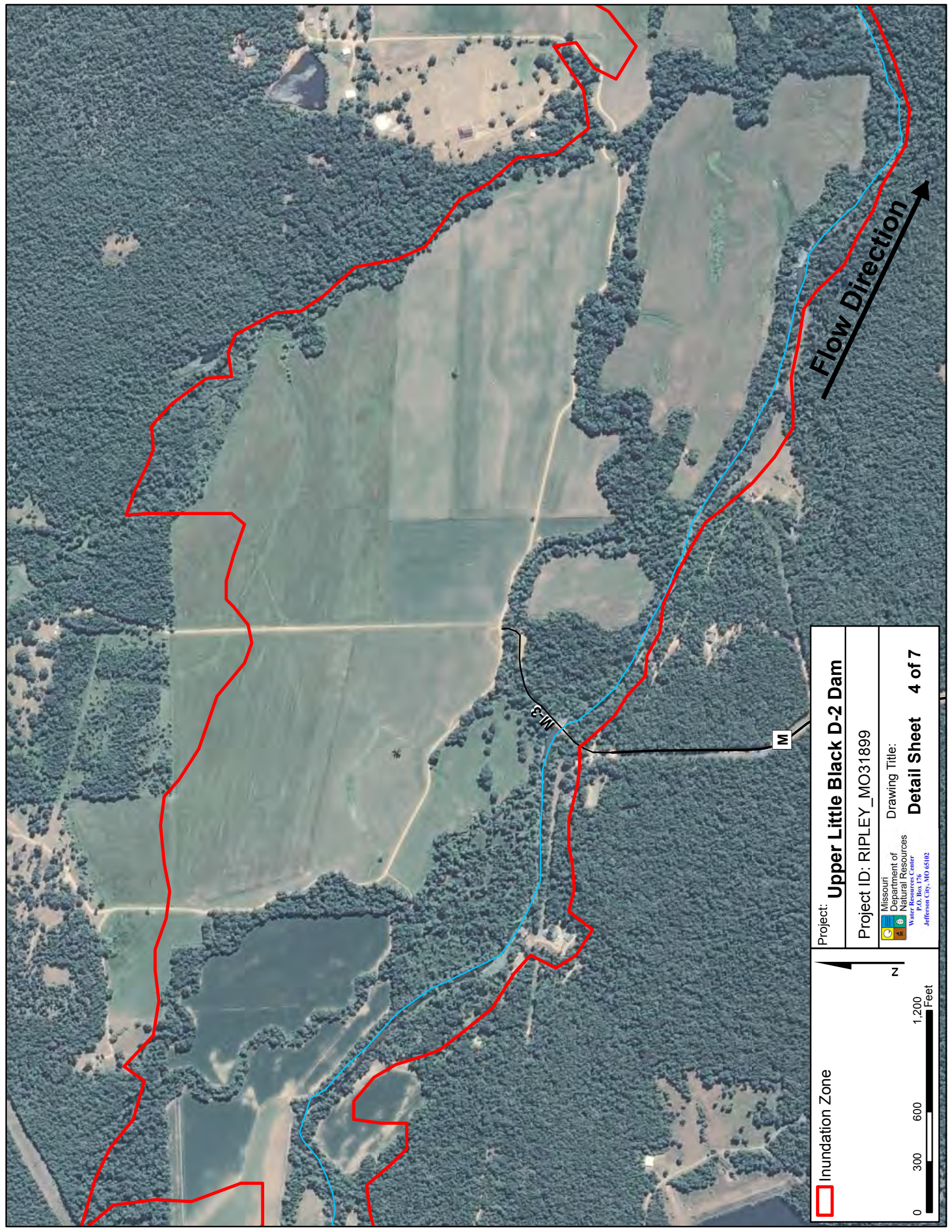
Upper Little Black D-2 Dam

Project ID: RIPLEY_MO31899



Drawing Title:

Detail Sheet 3 of 7

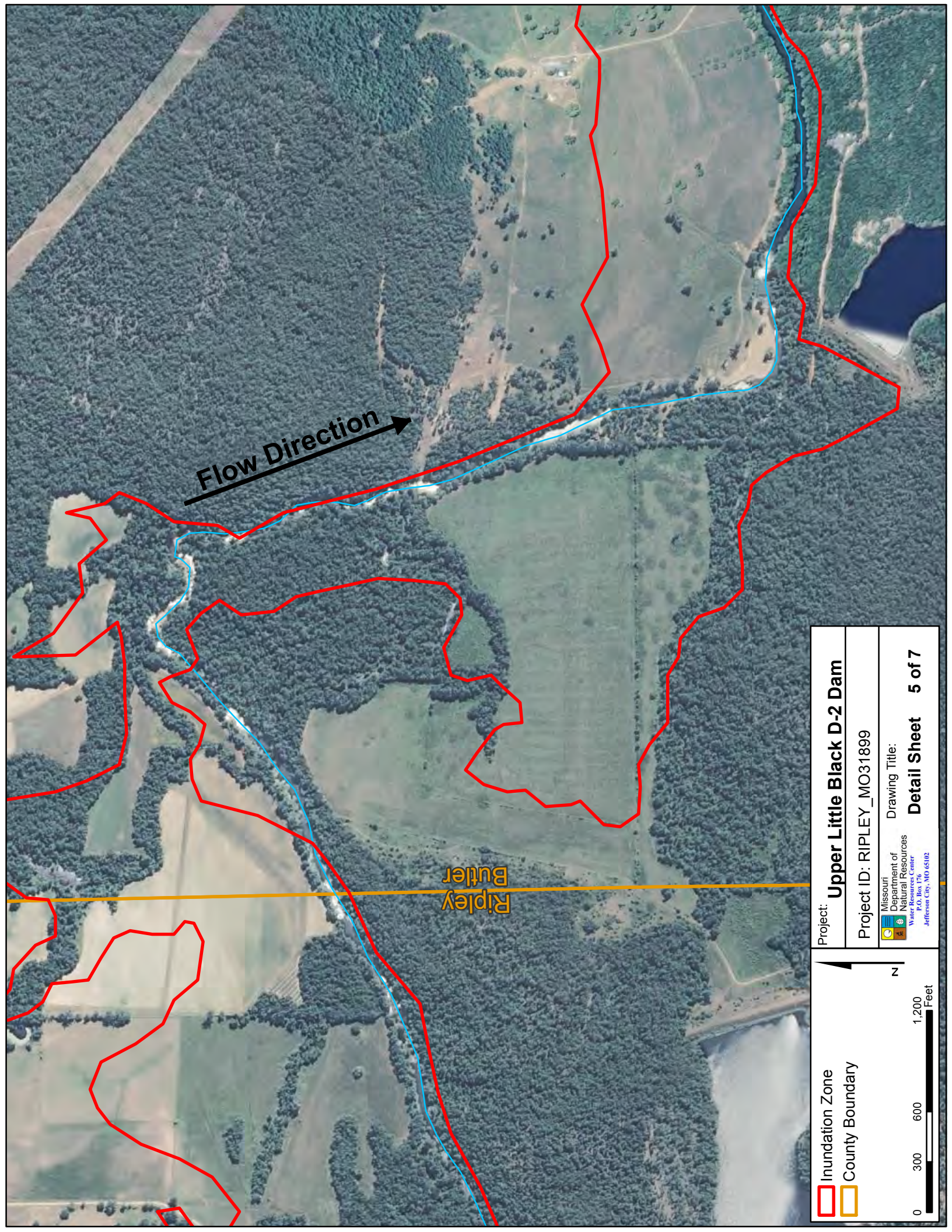


Flow Direction

Project: **Upper Little Black D-2 Dam**
Project ID: RIPLEY_MO31899
Missouri Department of Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102
Drawing Title: **Detail Sheet 4 of 7**

Inundation Zone

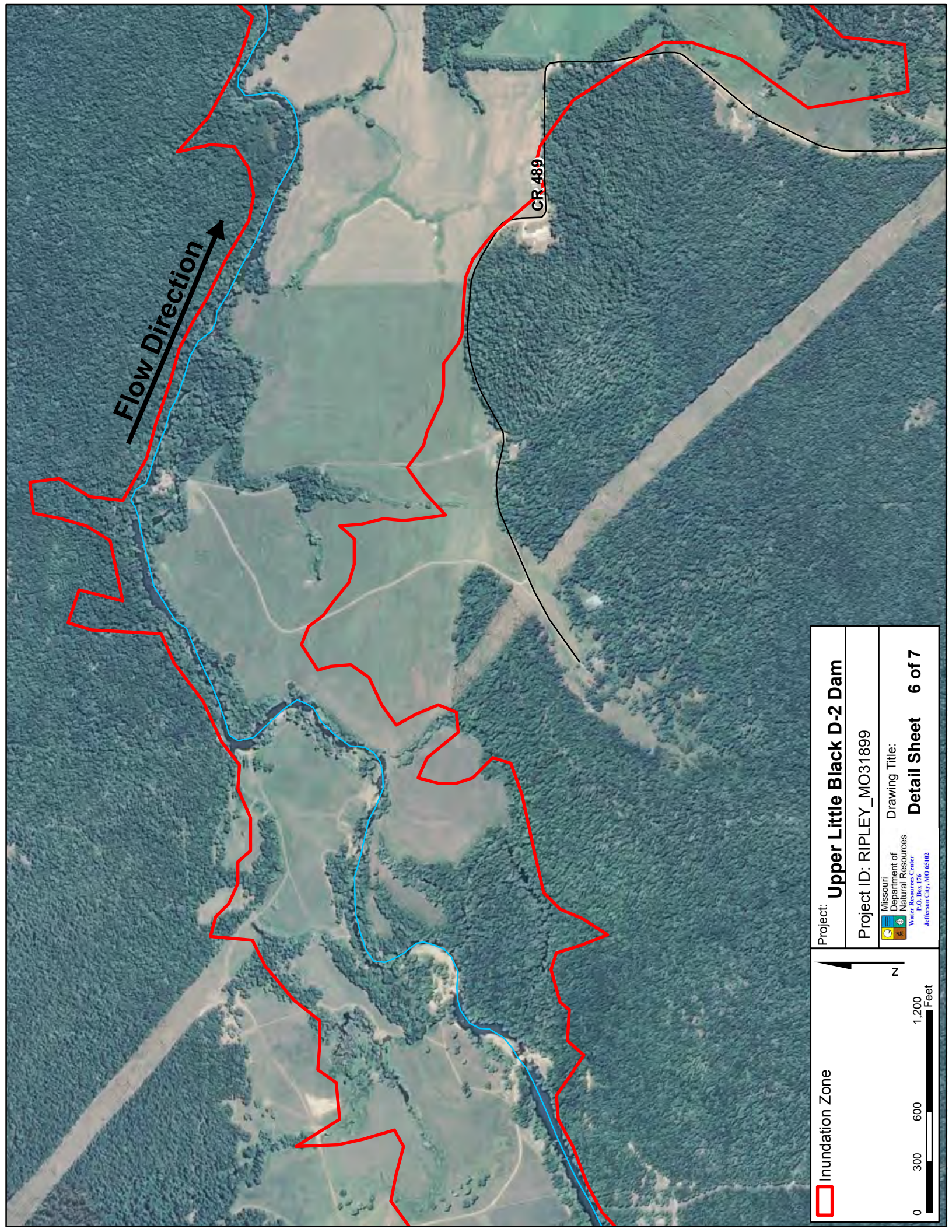
N



Flow Direction →

Ripley
Butler

 Inundation Zone  County Boundary	Project: Upper Little Black D-2 Dam	
	Project ID: RIPLEY_MO31899	
		Drawing Title:
Water Resources Center P.O. Box 176 Jefferson City, MO 65102		Detail Sheet 5 of 7
		
		

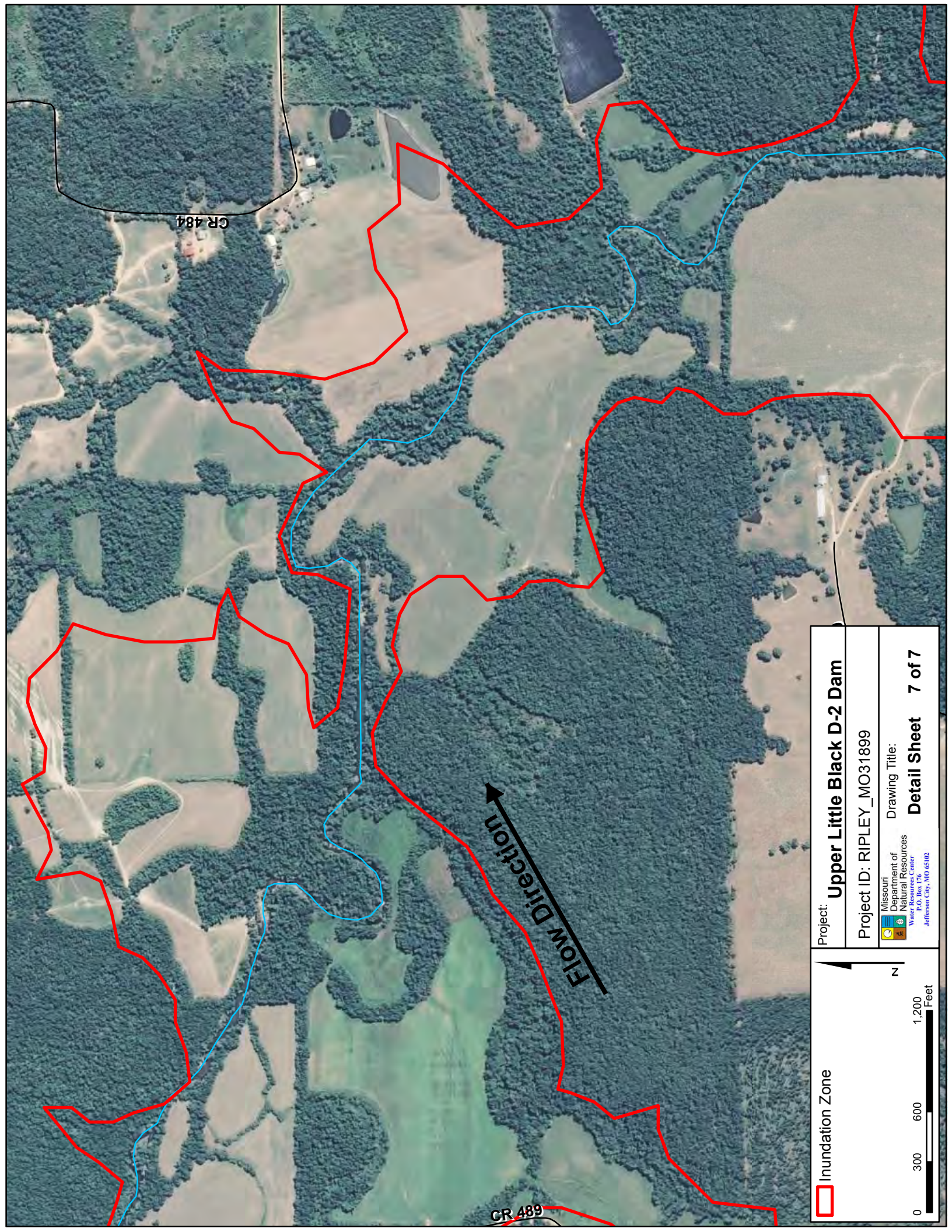


Flow Direction

CR 489

 Inundation Zone	Project: Upper Little Black D-2 Dam
	Project ID: RIPLEY_MO31899
	Drawing Title: Detail Sheet 6 of 7
Water Resources Center P.O. Box 176 Jefferson City, MO 65102	







	0 300 600 1,200 Feet
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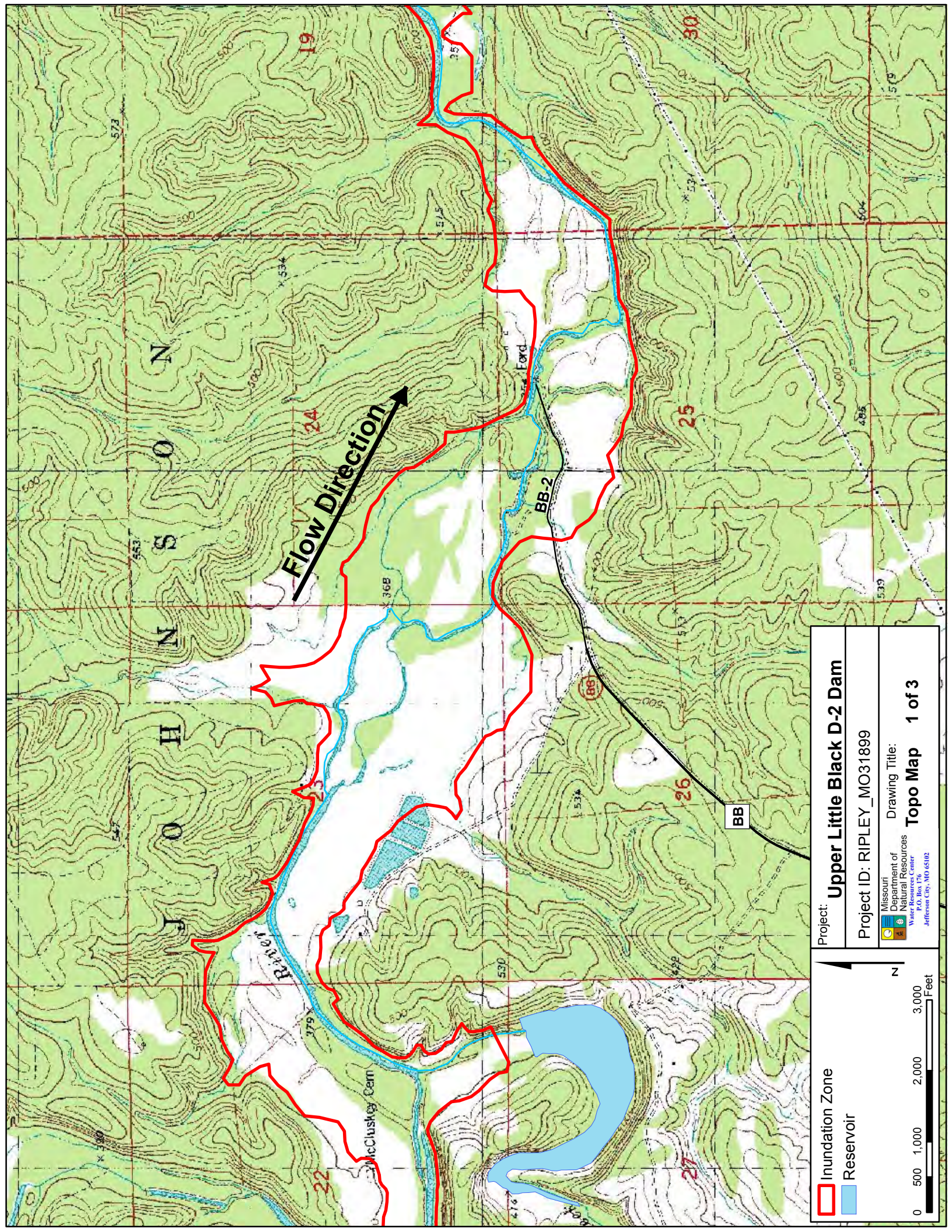


CR 484

Flow Direction

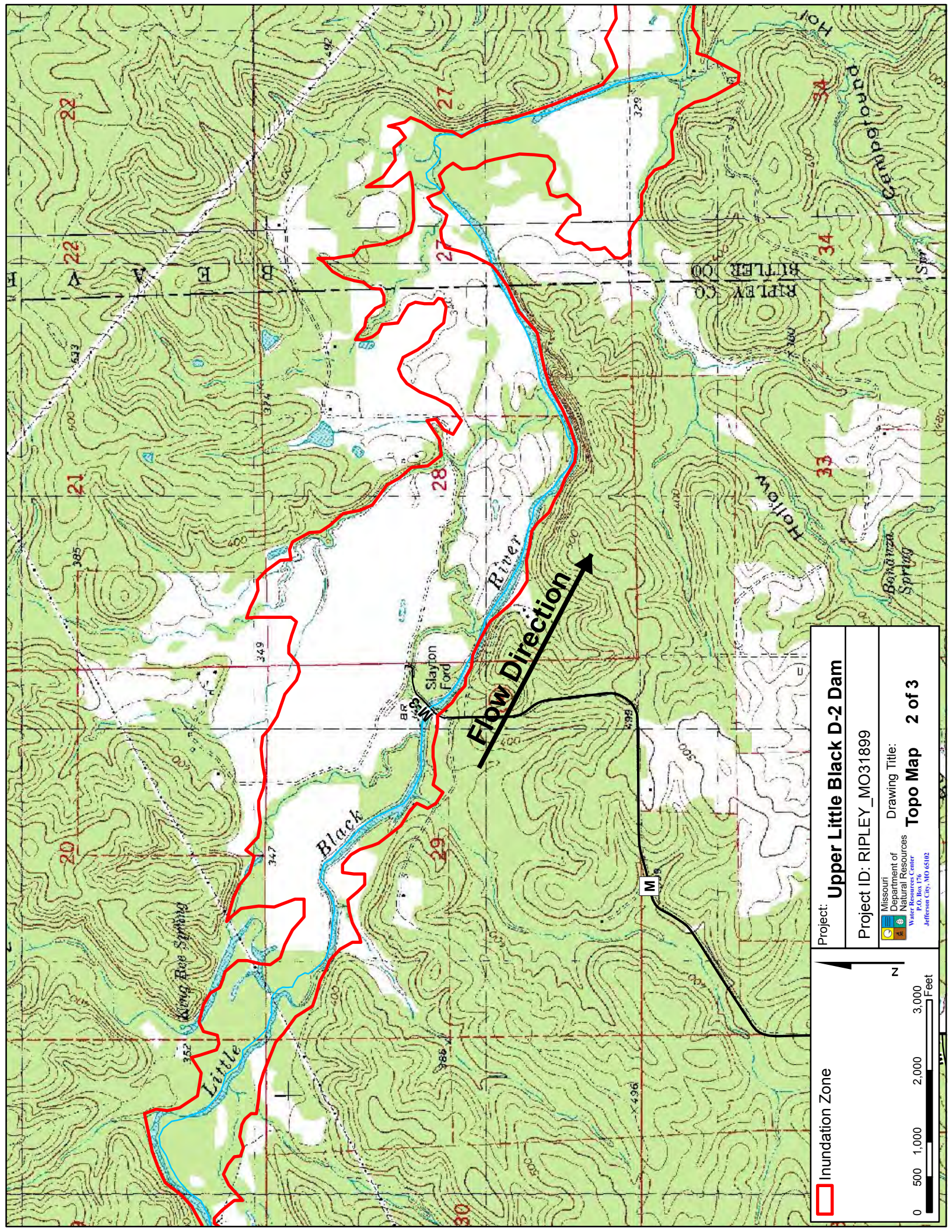
CR 489





 Inundation Zone	Project: Upper Little Black D-2 Dam
	Project ID: RIPLEY_MO31899
 Missouri  Department of Natural Resources  Water Resources Center <small>P.O. Box 176 Jefferson City, MO 65102</small>	Drawing Title: Detail Sheet 7 of 7
 N  0 300 600 1,200 Feet	

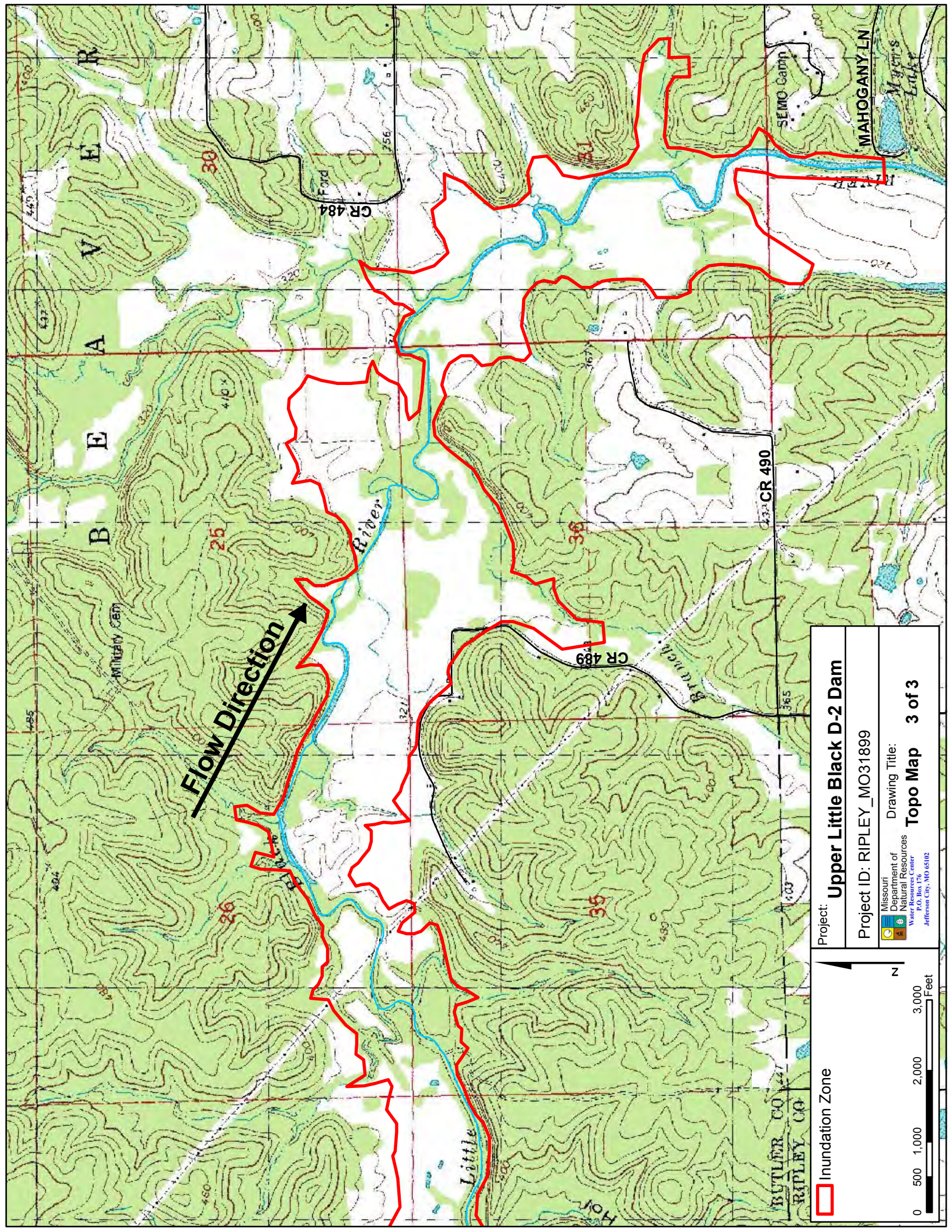



Flow Direction →


Inundation Zone Reservoir	Project: Upper Little Black D-2 Dam
	Project ID: RIPLEY_MO31899
Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102	Drawing Title: Topo Map 1 of 3
N 0 500 1,000 2,000 3,000 Feet	




 Inundation Zone	Project: Upper Little Black D-2 Dam
 N	Project ID: RIPLEY_MO31899
 0 500 1,000 2,000 3,000 Feet	 Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102
	Drawing Title: Topo Map 2 of 3




 Inundation Zone

 N

 0 500 1,000 2,000 3,000 Feet

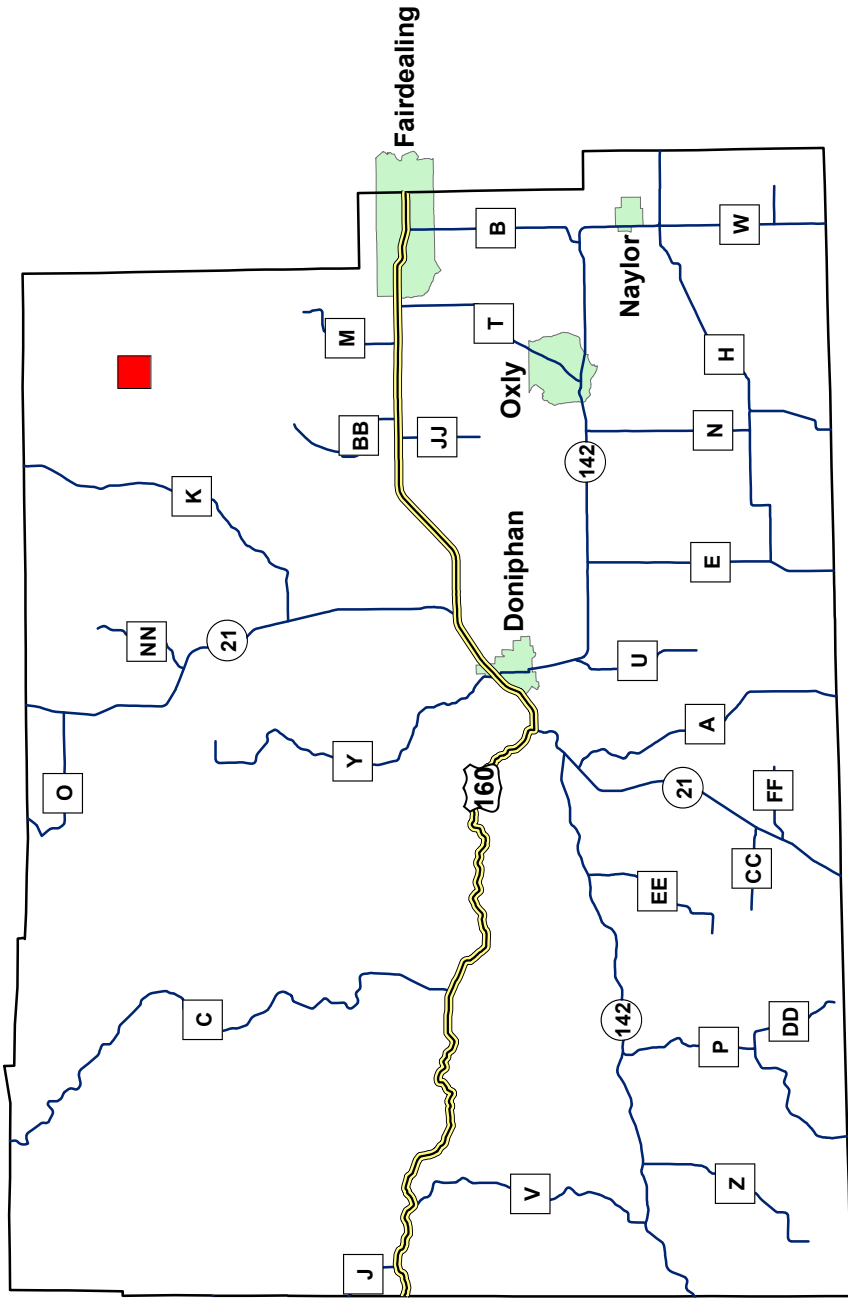
Project: **Upper Little Black D-2 Dam**

Project ID: RIPLEY_MO31899

 Missouri Department of Natural Resources
Water Resources Center
P.O. Box 176
Jefferson City, MO 65102

Drawing Title:
Topo Map 3 of 3

Upper Little Black A-2 Breach Inundation Map



Ripley County, Missouri
RIPLEY_MO31938



Missouri
 Department of
 Natural Resources
 Water Resources Center
 P.O. Box 176
 Jefferson City, MO 65102

Note: Actual areas inundated will depend on the actual dam failure criteria and may differ from the areas shown. Due to limitations, methods, assumptions, and procedures used to develop the inundation area, the map should only be used for evacuation planning and emergency purposes.

Explanation Sheet

Project: Upper Little Black A-2
Dam Breach Analysis

Drawing Title: Explanation Sheet 1 of 1



Project ID: RIPLEY_MO31938

Explanation of Maps

The following maps indicate the areas which are predicted to be inundated during the occurrence of a sunny day breach of the dam. The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway.

Use of Maps

The following maps provide a baseline for evaluation of existing emergency action plans and environmental hazards downstream of the regulated structure.

Definition of Terms

Pool Elevation- Water level in the reservoir.

Dam Crest- The lowest elevation measured along the dam crest.

Spillway Crest- The lowest elevation measured along the crest of the spillway.

Arrival Time- Elapsed time between the breach initiation and the time that water levels first begin to rise at any given point.

Assumed Conditions of Flooding

The pool elevation at failure is assumed to be at the emergency spillway crest elevation or at the crest of the dam in the absence of an emergency spillway. The assumed overtopping erodes a section of the dam resulting in a dangerous and quick release of water. For the hydraulic analysis flow initiation is required and therefore a baseflow of water has been included in the analysis.

Dam Facts

ID: MO_31938

County: Ripley

Location: S31, T25 N, R04 E

Height of Dam: 60'

Tributary: South Prong Beaverdam Creek

Lake Area: 80 acres

Max Storage Capacity: 6500 ac-ft

Breach Parameters (Froehlich, 1995)

Side slopes: 1.4:1

Bottom width: 130'

Bottom elevation: 481'

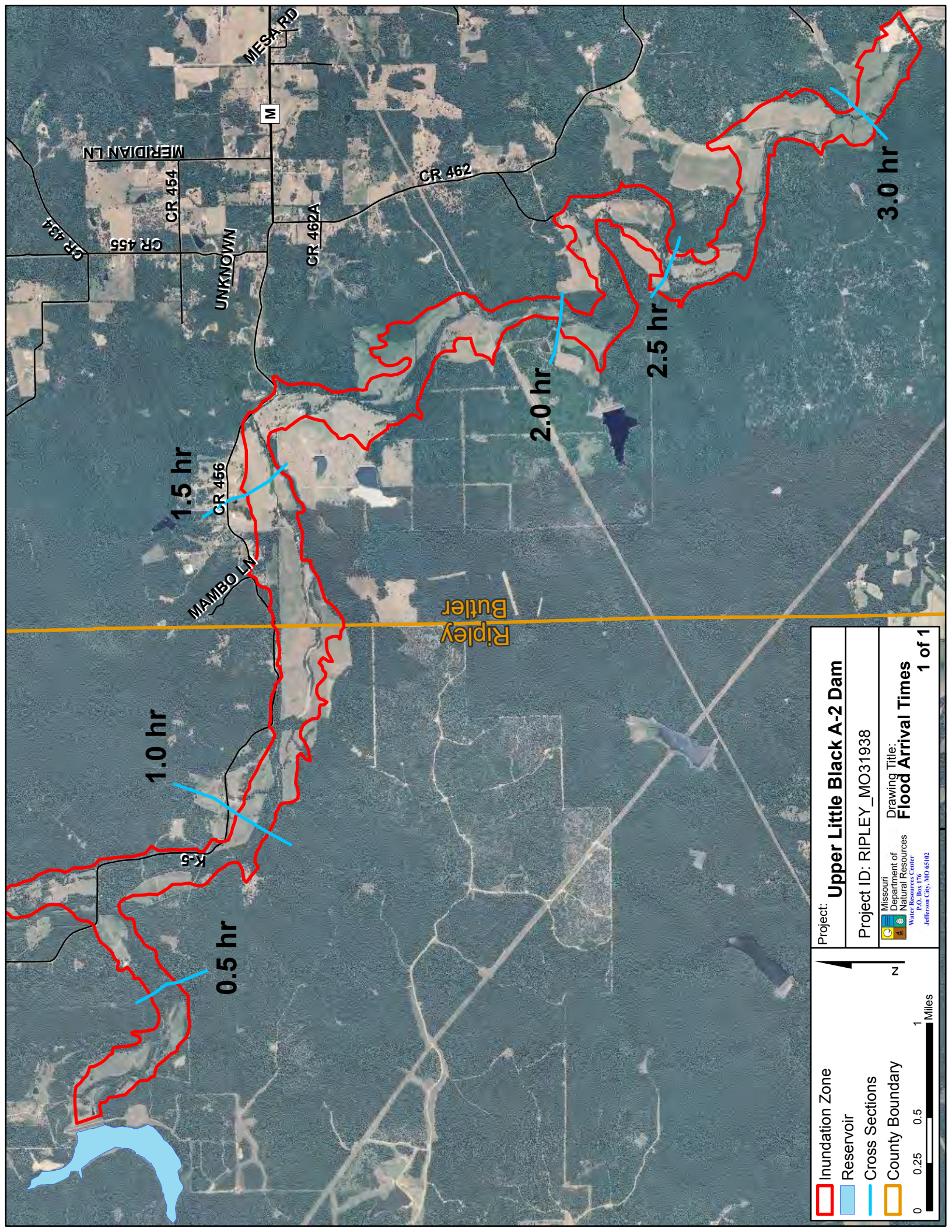
Breach formation time: 0.84 hr

Pool Elevation at Failure: 522'

Pool Volume at Failure: 4455 ac-ft

Downstream Crossings

[None]



Project: **Upper Little Black A-2 Dam**

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Drawing Title:
Flood Arrival Times

1 of 1

Inundation Zone (Red outline)

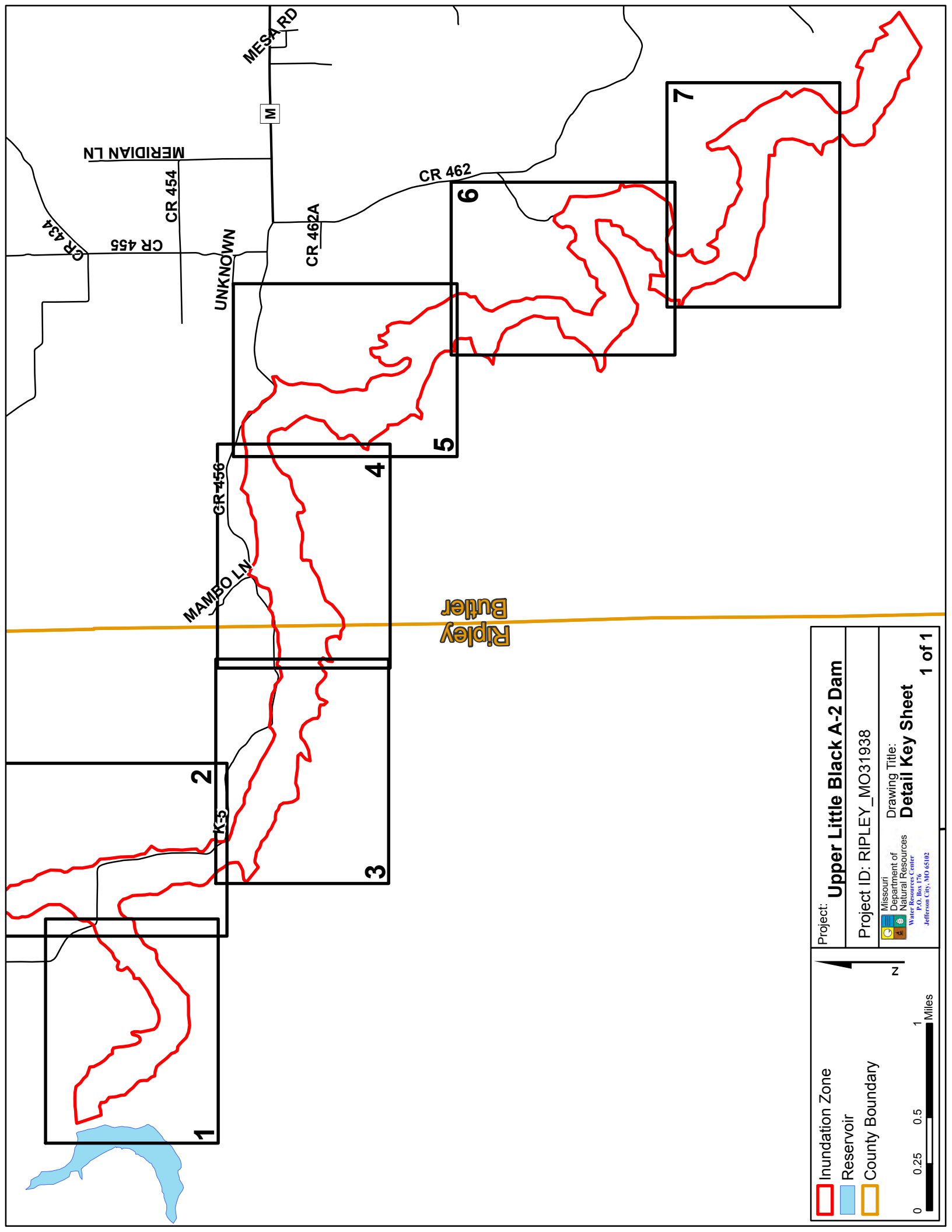
Reservoir (Blue area)

Cross Sections (Blue lines)

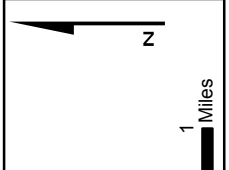
County Boundary (Yellow line)

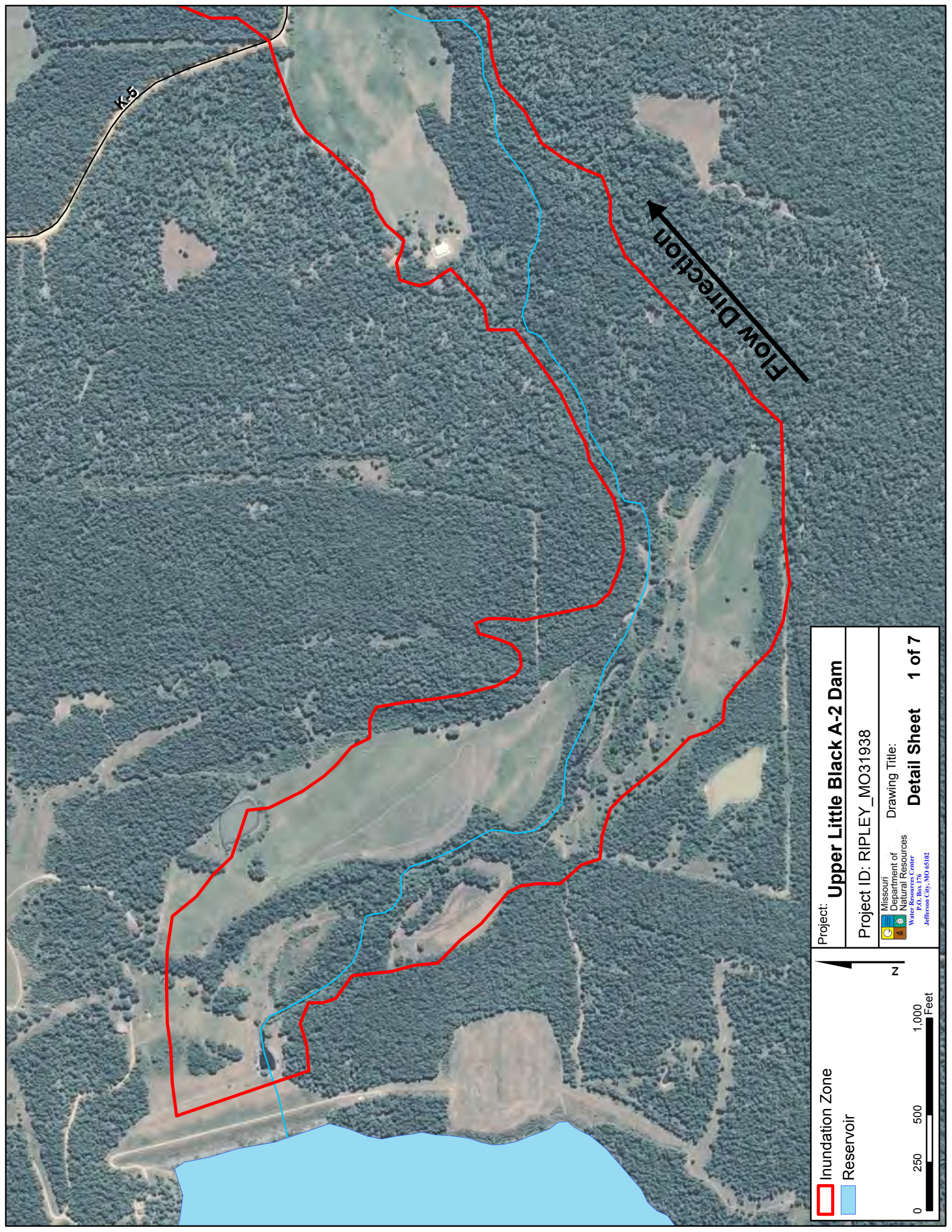
0 0.25 0.5 1 Miles

North Arrow



	Project: Upper Little Black A-2 Dam
	Project ID: RIPLEY_MO31938
	Drawing Title: Detail Key Sheet
<small>Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102</small>	1 of 1





K-5

Flow Direction

 Inundation Zone  Reservoir	 N
	 0 250 500 1,000 Feet
Project: Upper Little Black A-2 Dam	
Project ID: RIPLEY_MO31938	
 Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102	Drawing Title: Detail Sheet 1 of 7

 Inundation Zone

Project: **Upper Little Black A-2 Dam**

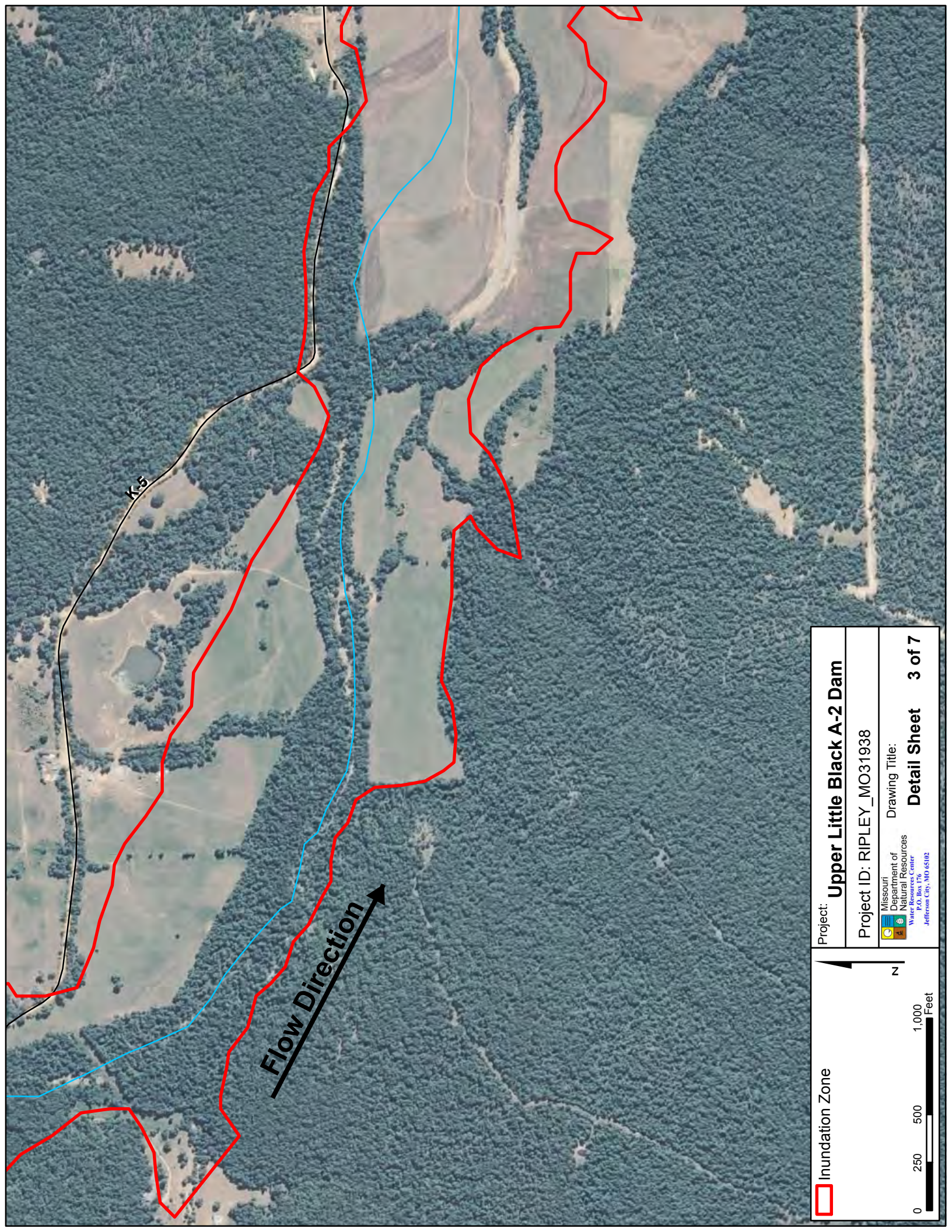
Project ID: RIPLEY_MO31938

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Drawing Title:
Detail Sheet 2 of 7



0 250 500 1,000
Feet

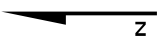


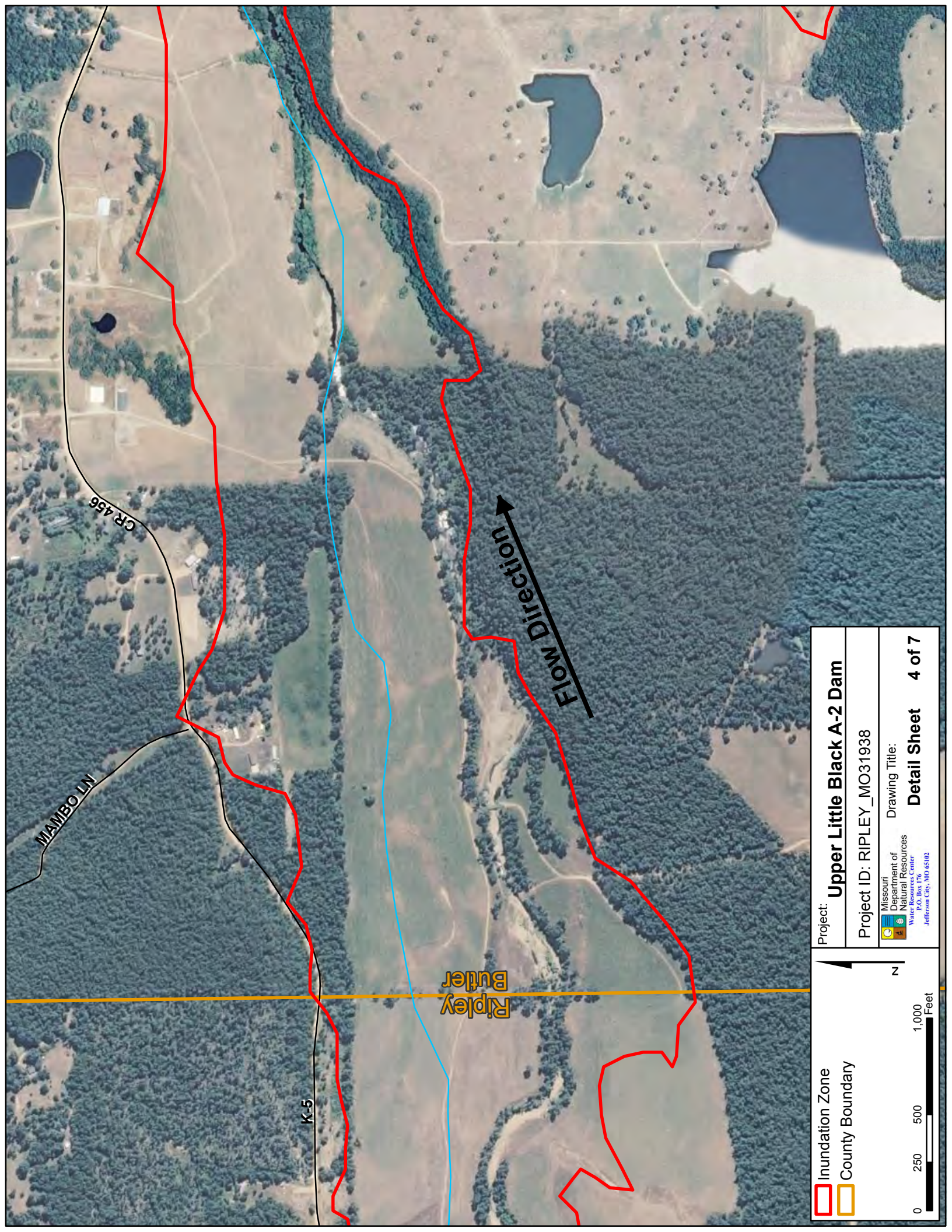





Kr 6

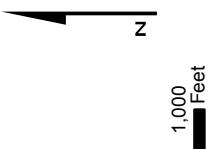
Flow Direction 

 Inundation Zone	Project: Upper Little Black A-2 Dam
	Project ID: RIPLEY_MO31938
	Drawing Title: Detail Sheet 3 of 7
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 Inundation Zone  County Boundary	Project: Upper Little Black A-2 Dam
	Project ID: RIPLEY_MO31938
	Drawing Title: Detail Sheet 4 of 7
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Flow Direction

Ripley
Butler

K-5

MAMBO LN

CR 456

 Inundation Zone

Project: **Upper Little Black A-2 Dam**

Project ID: RIPLEY_MO31938

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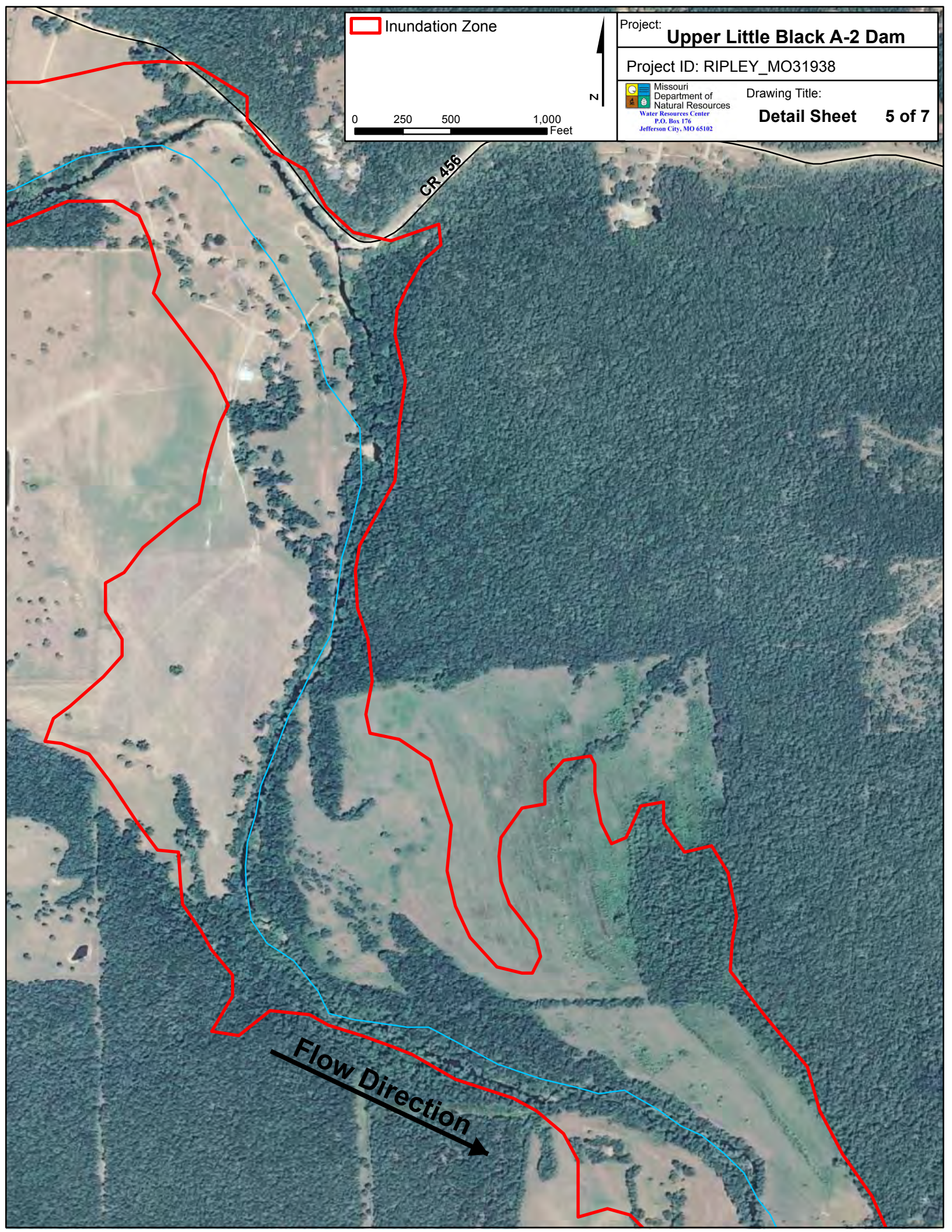
Drawing Title:
Detail Sheet 5 of 7


0 250 500 1,000 Feet



CR 456

Flow Direction 



 Inundation Zone

Project: **Upper Little Black A-2 Dam**

Project ID: RIPLEY_MO31938

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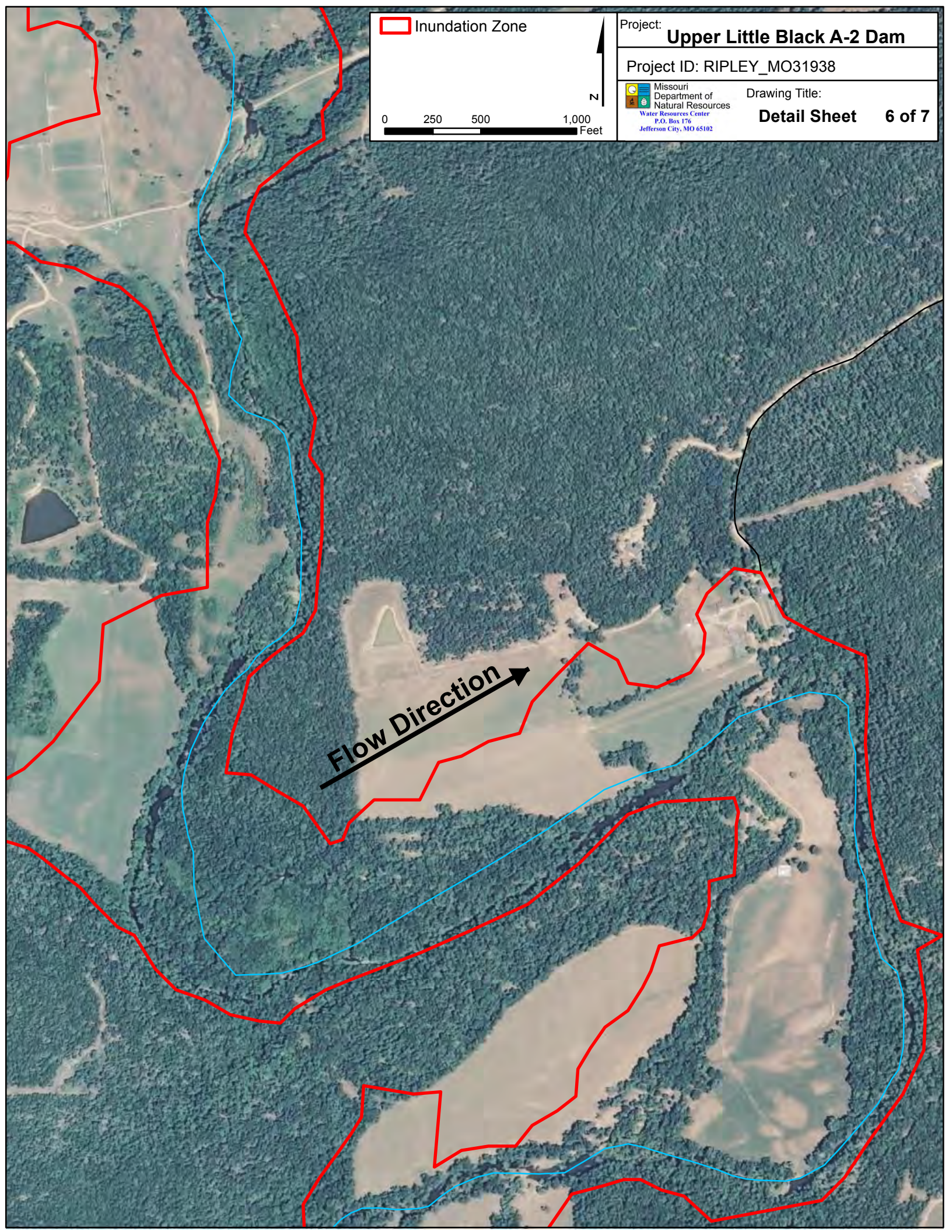
Drawing Title:

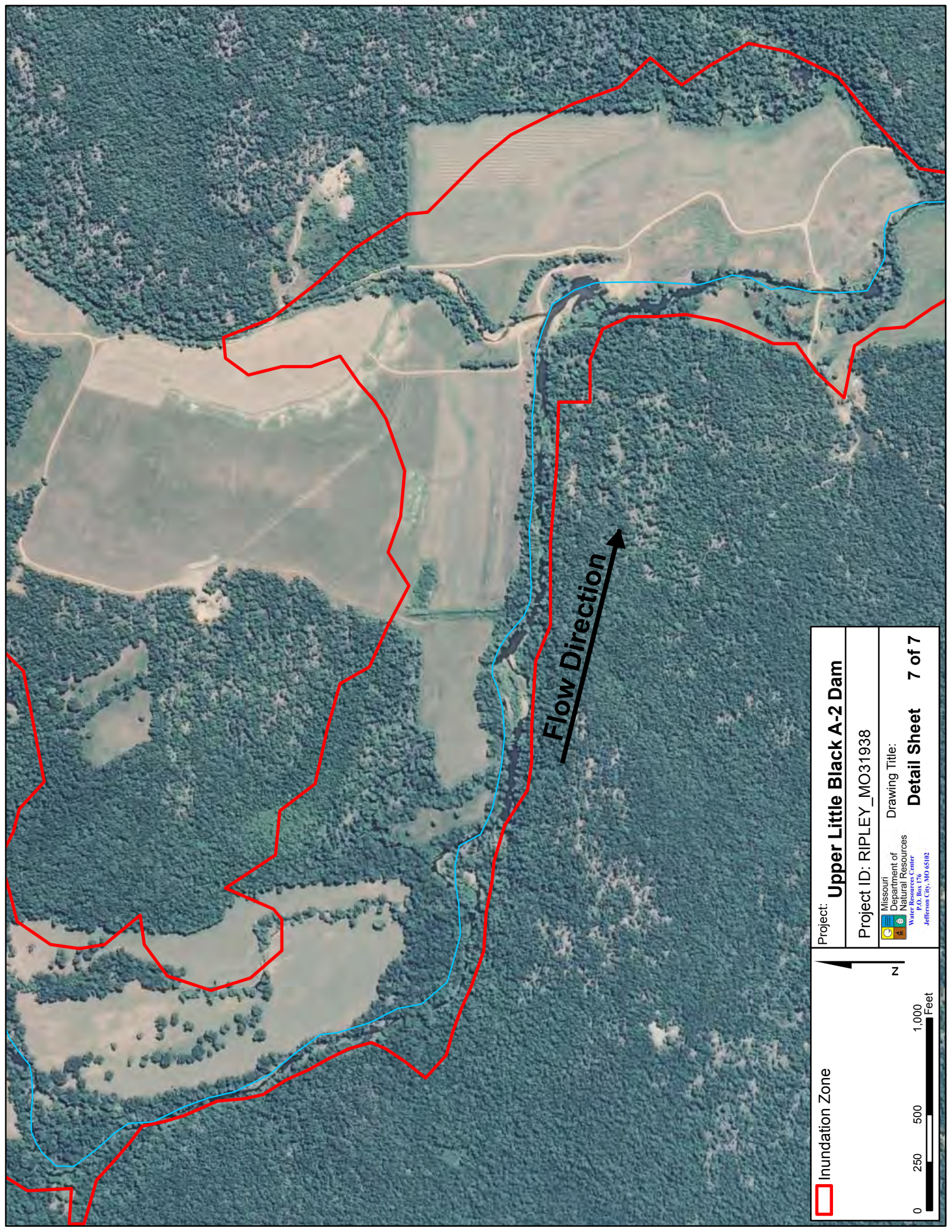
Detail Sheet 6 of 7



N

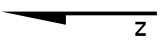
0 250 500 1,000
Feet

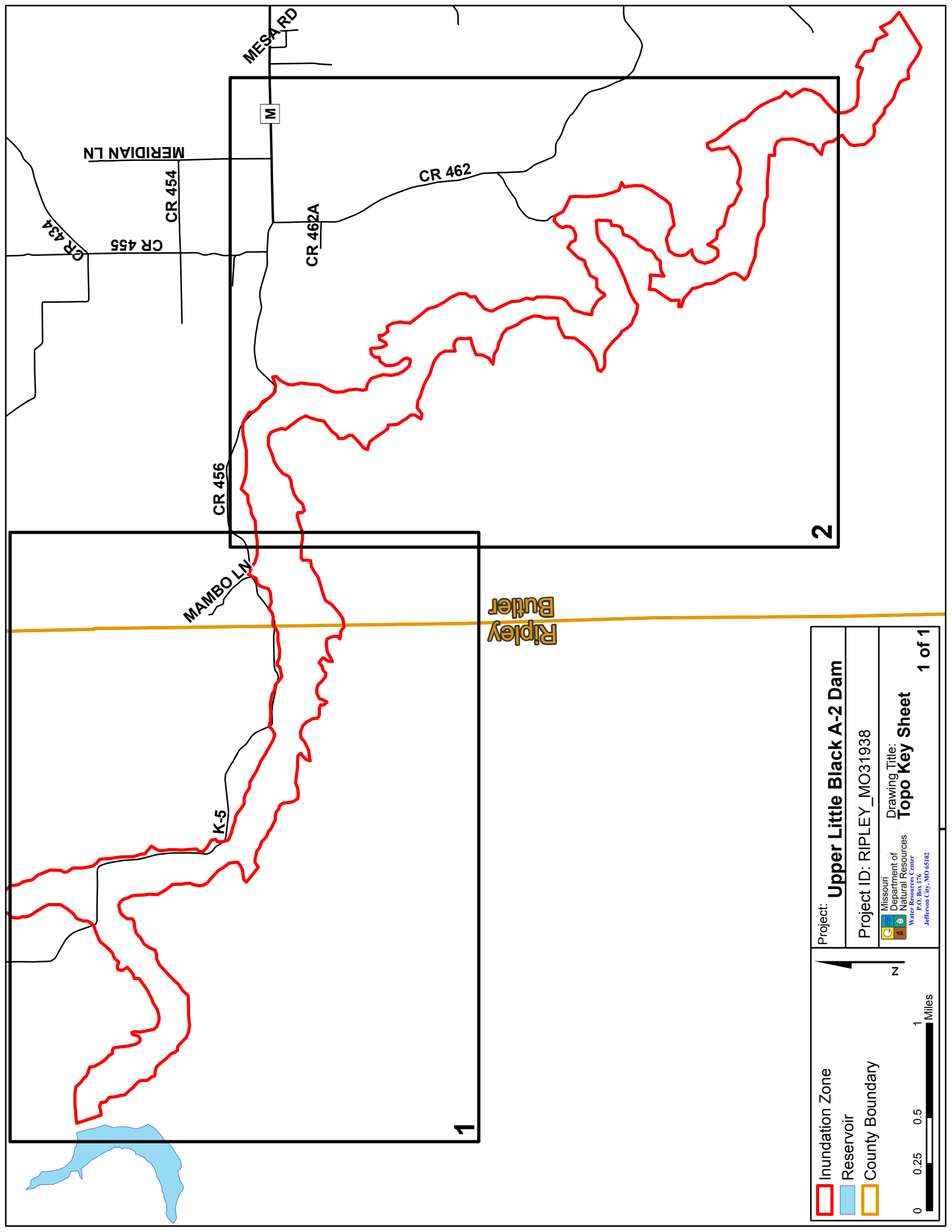
Flow Direction 



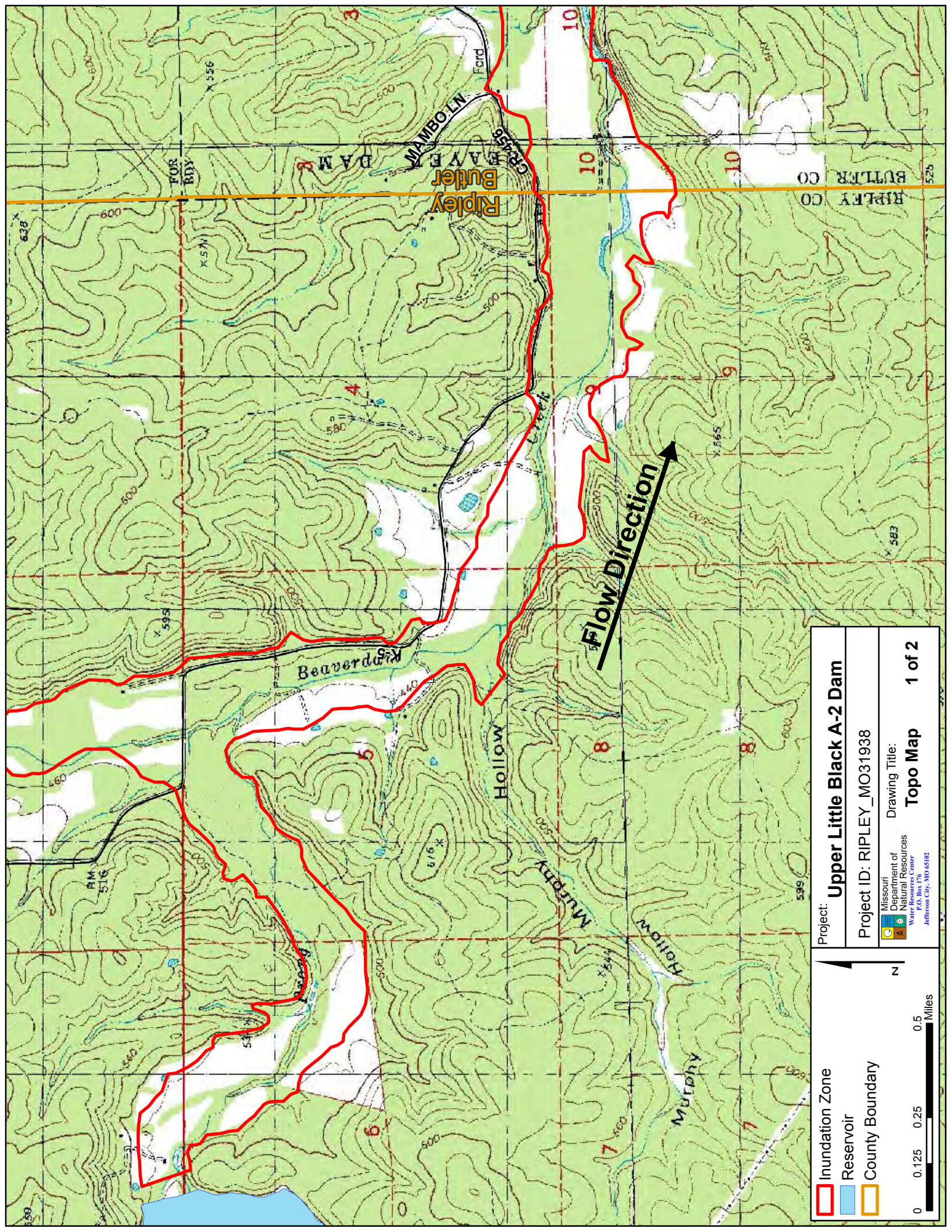







 Inundation Zone	Project: Upper Little Black A-2 Dam
	Project ID: RIPLEY_MO31938
	Drawing Title: Detail Sheet 7 of 7
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	Inundation Zone Reservoir County Boundary
Project: Upper Little Black A-2 Dam	
Project ID: RIPLEY_MO31938	
Missouri Department of Natural Resources Water Resources Center <small>P.O. Box 176 Jefferson City, MO 65102</small>	
Drawing Title: Topo Key Sheet	
1 of 1	



 Inundation Zone	 N
 Reservoir	Project: Upper Little Black A-2 Dam Project ID: RIPLEY_MO31938  Missouri Department of Natural Resources Water Resources Center P.O. Box 176 Jefferson City, MO 65102
 County Boundary	
Drawing Title: Topo Map	
1 of 2	



 Inundation Zone

Project: **Upper Little Black A-2 Dam**

Project ID: RIPLEY_MO31938

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Drawing Title:

Topo Map 2 of 2

0 0.125 0.25 0.5 Miles

N

