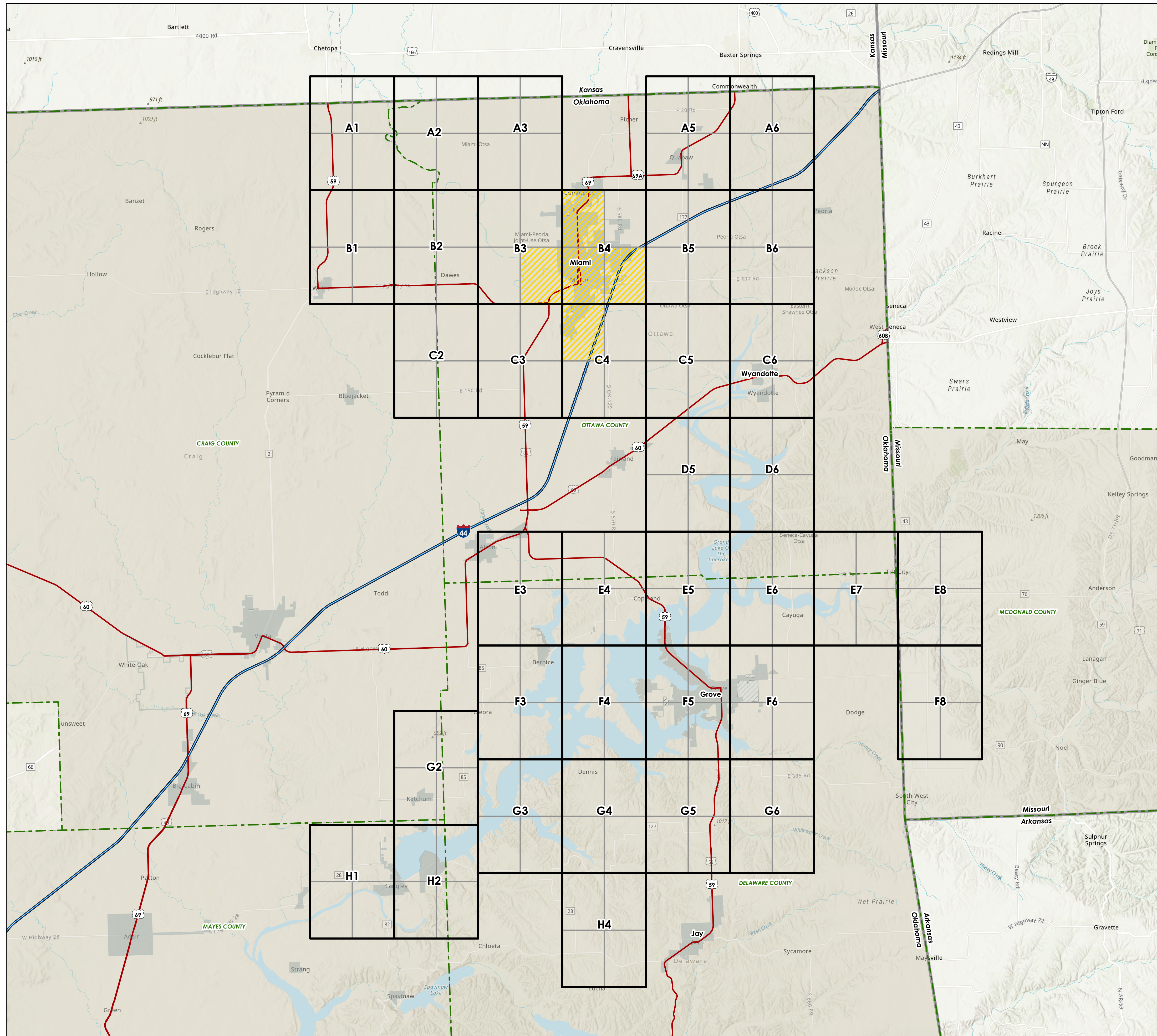


Upstream Model Results and Critical Infrastructure Overview Map

Pensacola Dam
GRAND RIVER DAM AUTHORITY
September 2022



Overview Map Legend

	1:24,000-scale Map Sheet		County Boundary		Road Class
	1:12,000-scale Detail Sheet		Municipality		Interstate
	State Boundary		Unincorporated		US Highway

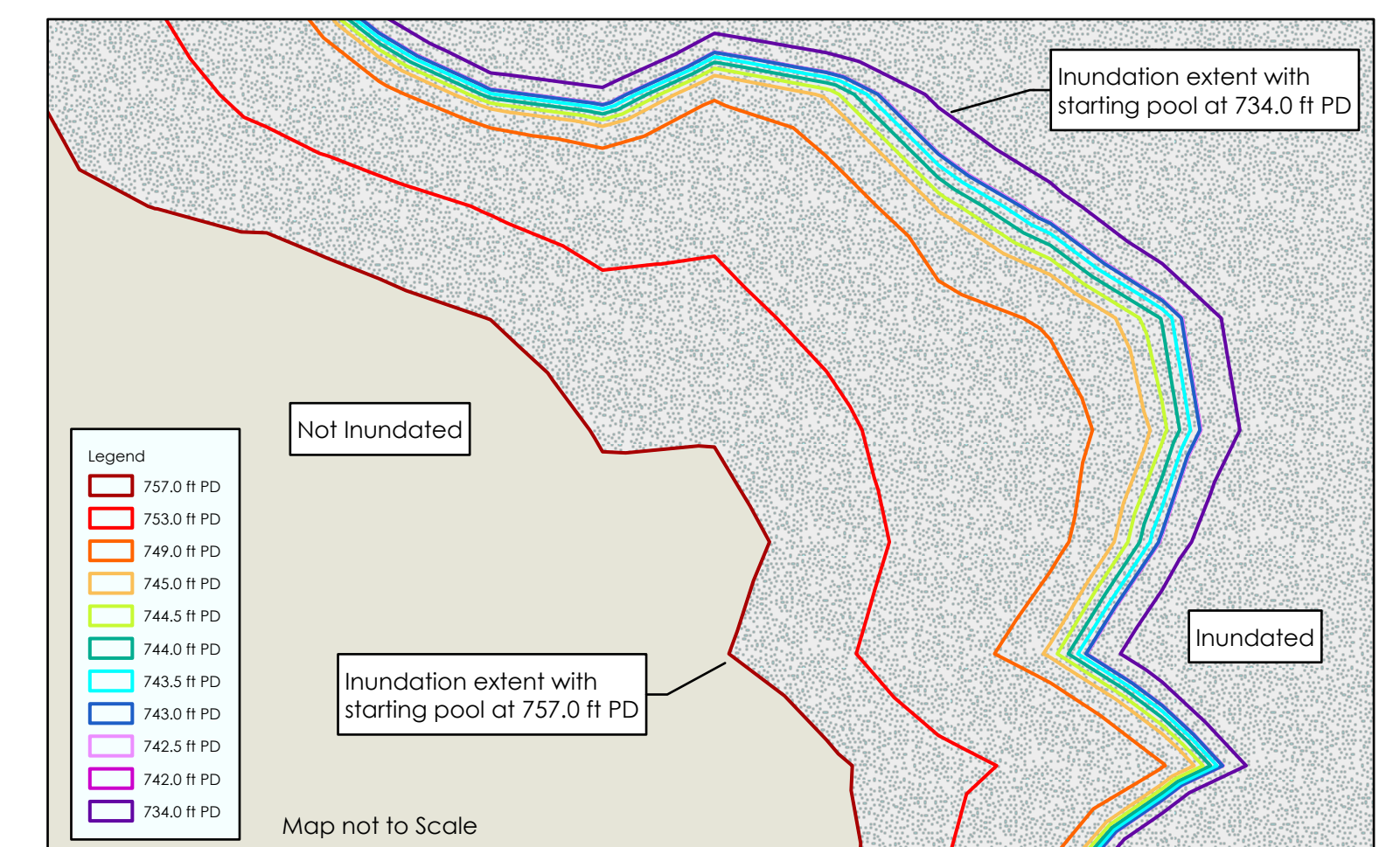
Critical Infrastructure Legend *

	Airport		Hospital		School		Wastewater Treatment
	Bridge, Off-sys		Fire Station		Shelter - Both		Water Treatment
	Bridge, On-sys		Law Enforcement		Shelter - Evac Only		
	Bridge, RR		Church		Power Plant		
	Cell Tower		Park		Substation		

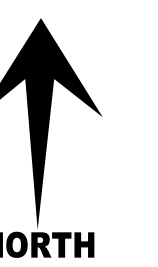
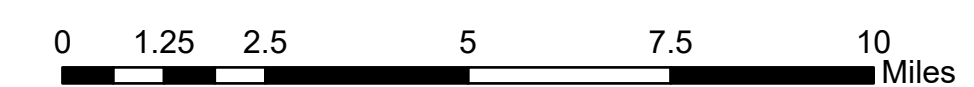
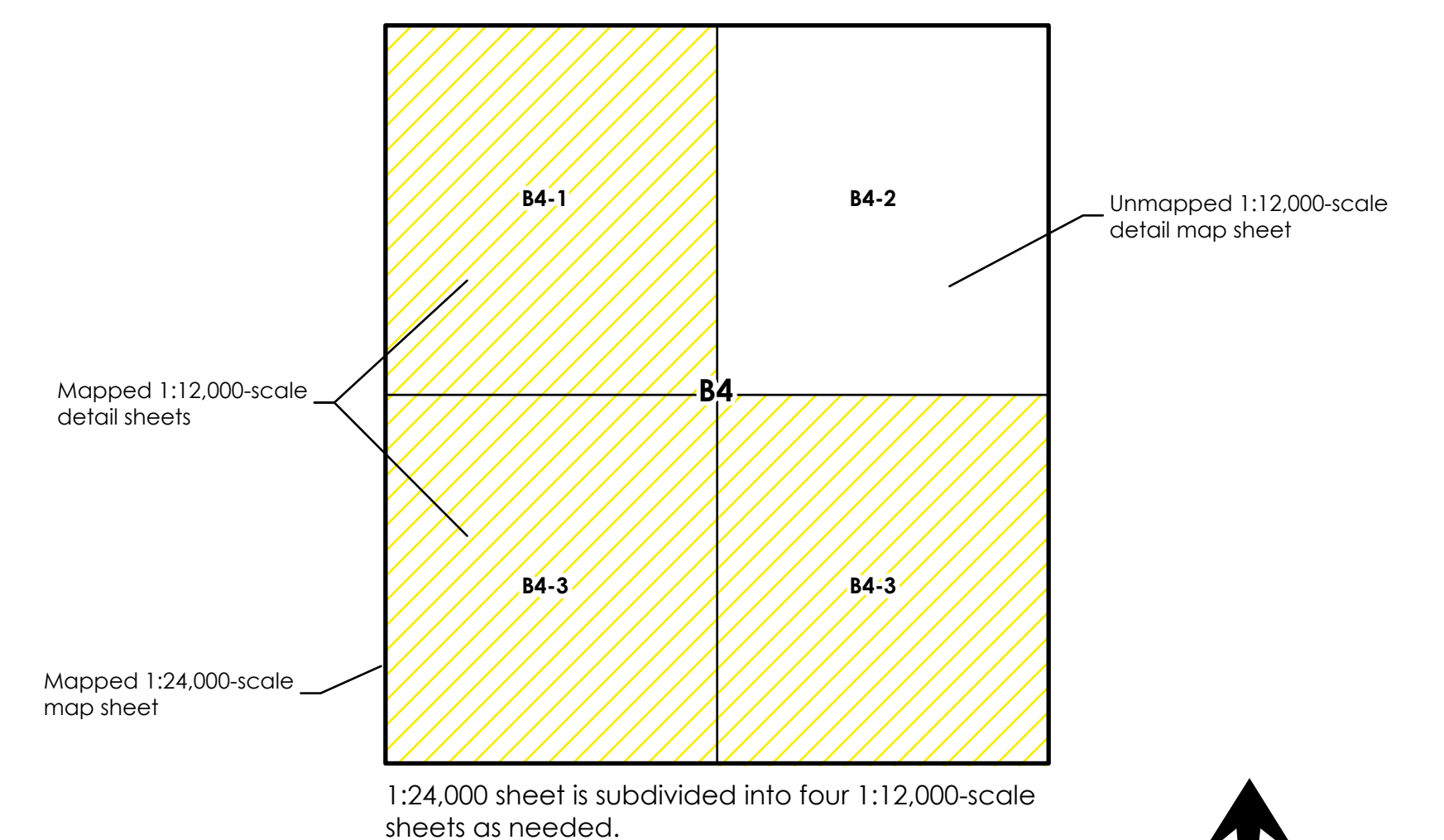
* Due to space constraints on the individual map sheets, the Critical Infrastructure symbols are provided here. Refer to this Overview Map when using the individual map sheets.

Inundation Scenario Mapping

Mapping shows the extent of inundation for the selected hydraulic event under different starting pool elevations: 734.0 ft PD, 742.0 ft PD, 742.5 ft PD, 743.0 ft PD, 743.5 ft PD, 744.0 ft PD, 744.5 ft PD, 745.0 ft PD, 749.0 ft PD, 753.0 ft PD, and 757.0 ft PD.



Map Sheet Organization



Map Notes

Data Sources for Maps:

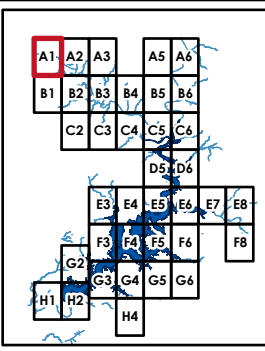
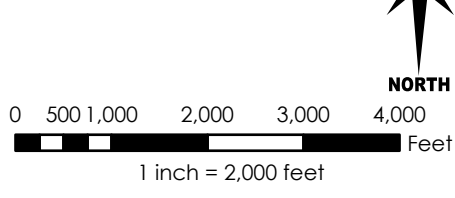
1. Base map images from https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019
2. Transportation network (major roads, local roads, and railroads) and county boundaries obtained from the Oklahoma Office of Geographic Information (<http://okmaps.org/cgi/search.aspx>).
3. Parcels owned by GRDA are from GIS parcel data provided by County Assessor's Offices (2020).
4. The displayed Flowage Easement is equal to the 760-foot NGVD29 elevation contour, extracted from 2011 Dewberry LIDAR.



A2

B1 B2

JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

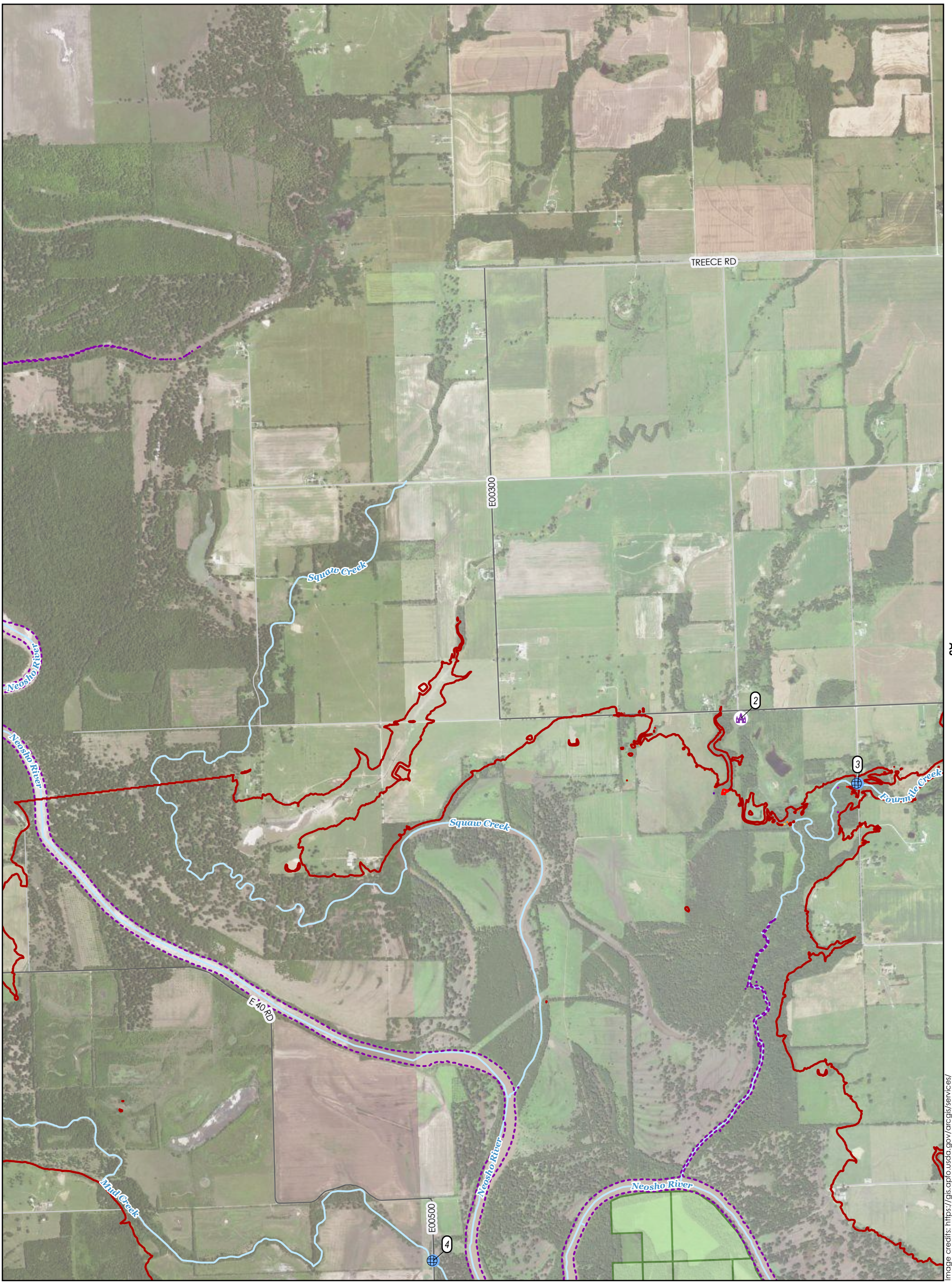
MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM GRAND RIVER DAM AUTHORITY

MAP: A1

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
 September 2022

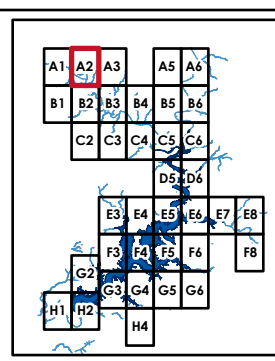


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: A2

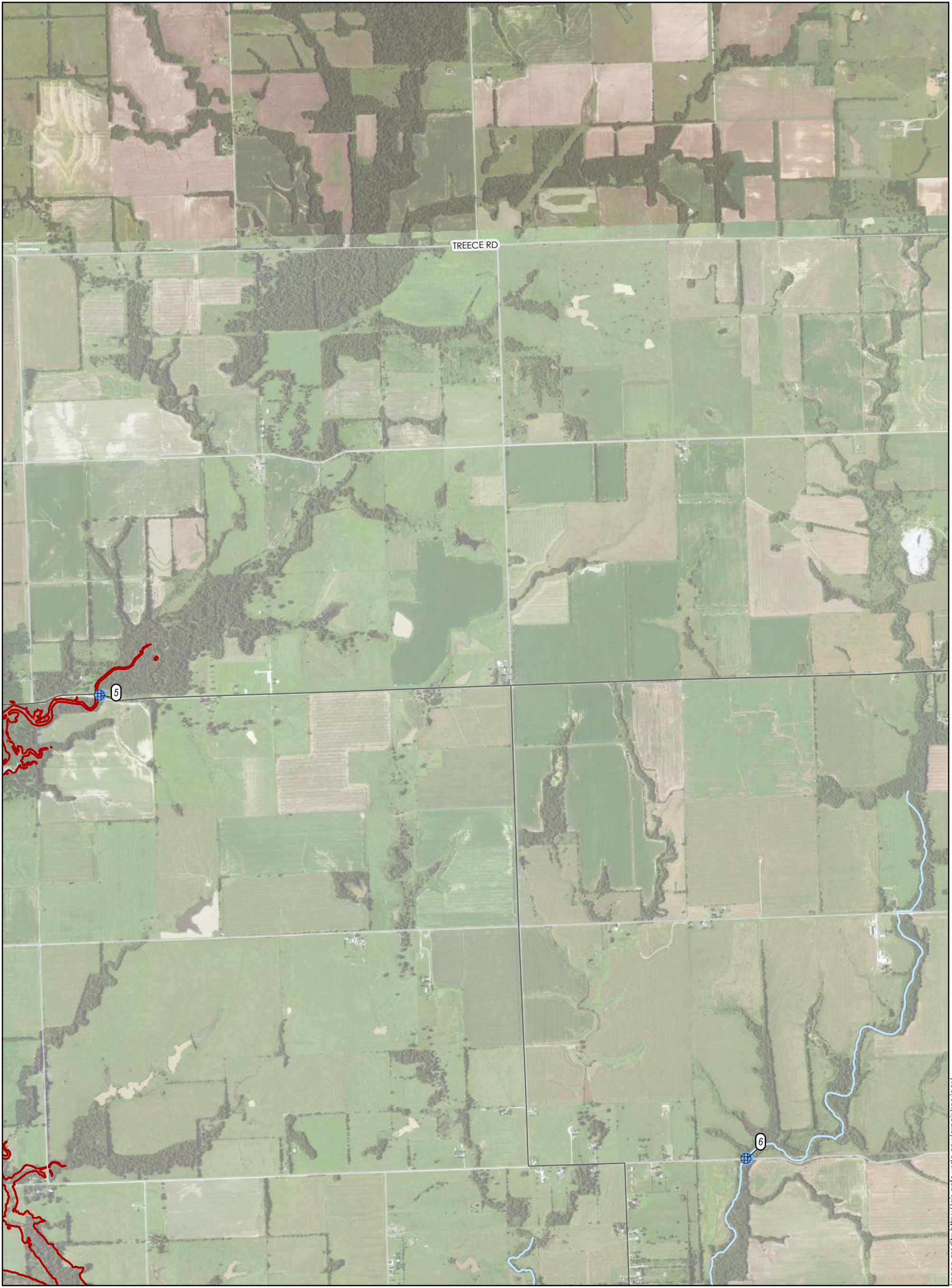
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.dplp.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



A2

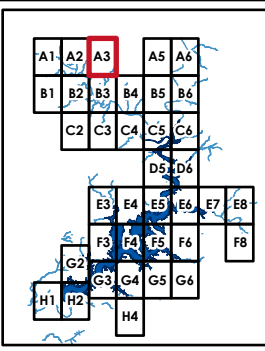
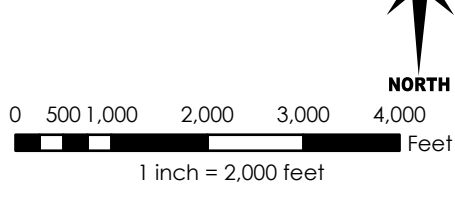
A4

B2

B3

B4

JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM GRAND RIVER DAM AUTHORITY

MAP: A3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

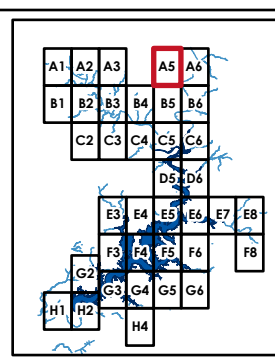


JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: A5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

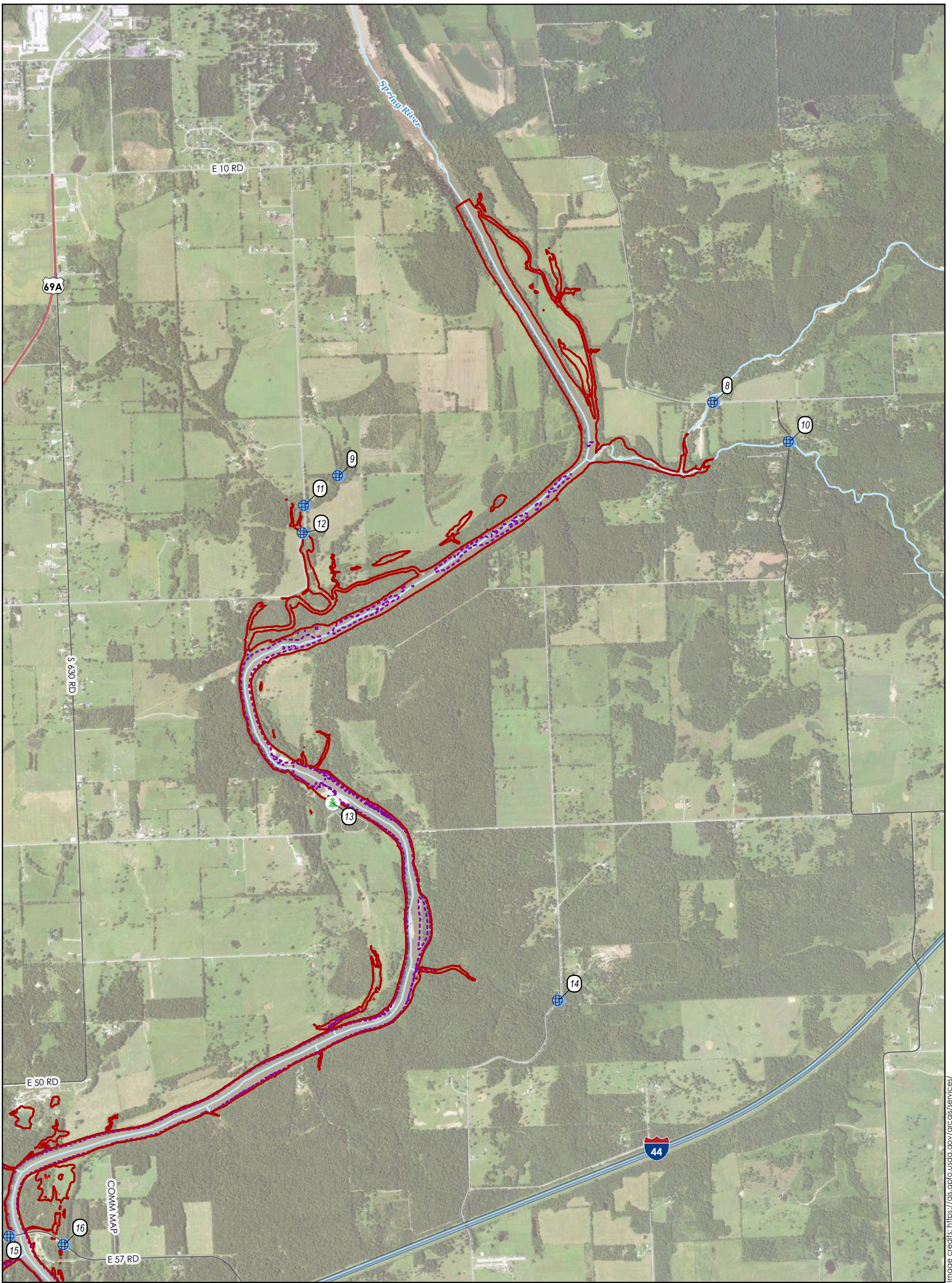
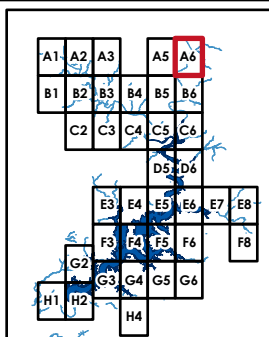
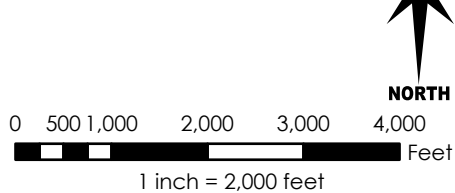


Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

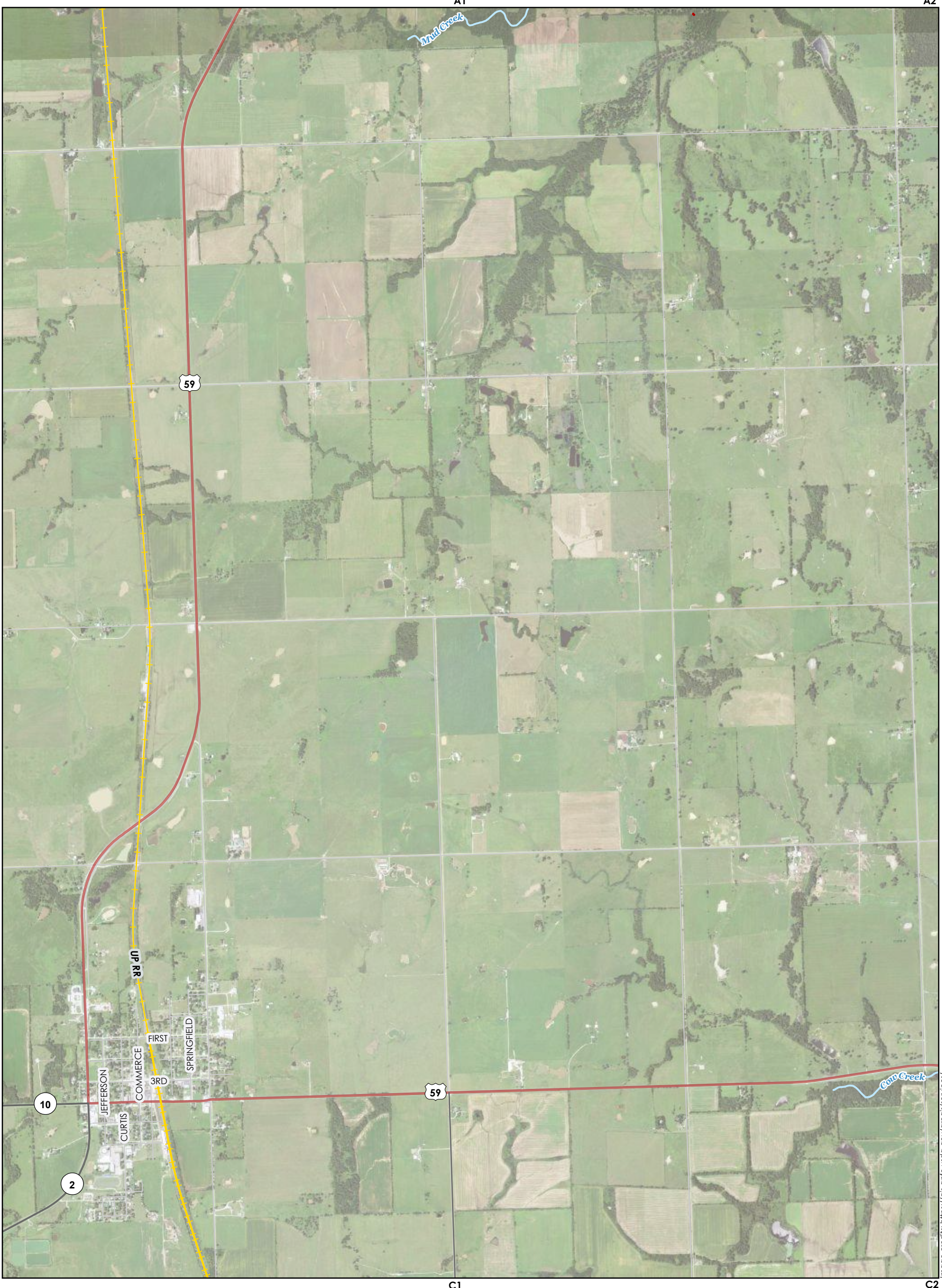
MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: A6

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022

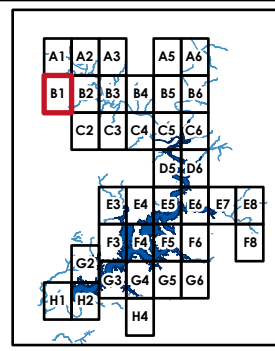


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

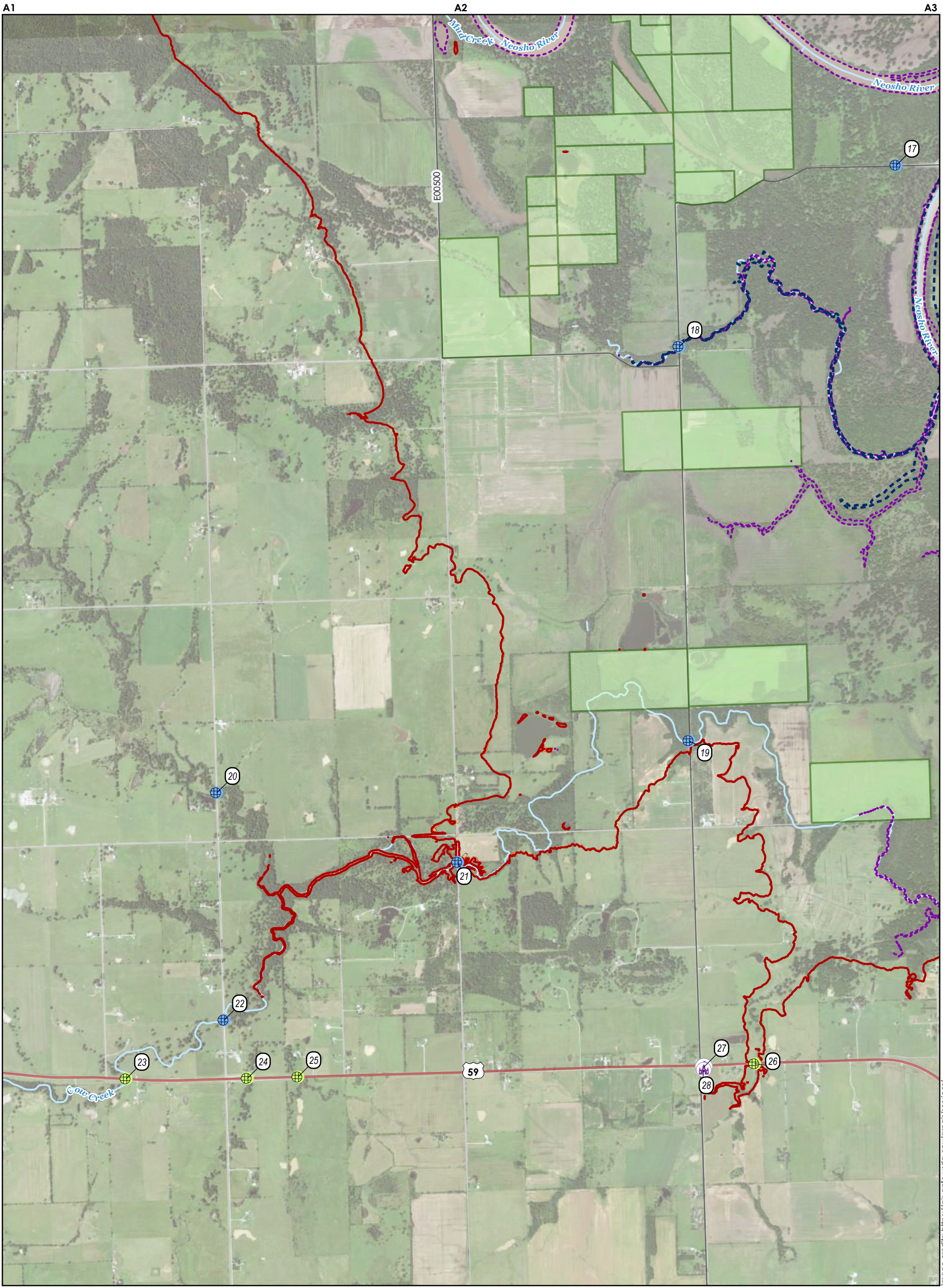
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B1

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

A1 A2 B1 B2 C1 C2
Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH
↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet

JULY 2007 MAX INUNDATION

— 757.0 ft PD	— 743.5 ft PD
— 753.0 ft PD	— 743.0 ft PD
— 749.0 ft PD	— 742.5 ft PD
— 745.0 ft PD	— 742.0 ft PD
— 744.5 ft PD	— 734.0 ft PD
— 744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- + Railroad
- Stream
- - - Flowage Easements
- - - Project Boundary
- GRDA Ownership

PENSACOLA DAM GRAND RIVER DAM AUTHORITY

MAP: B2

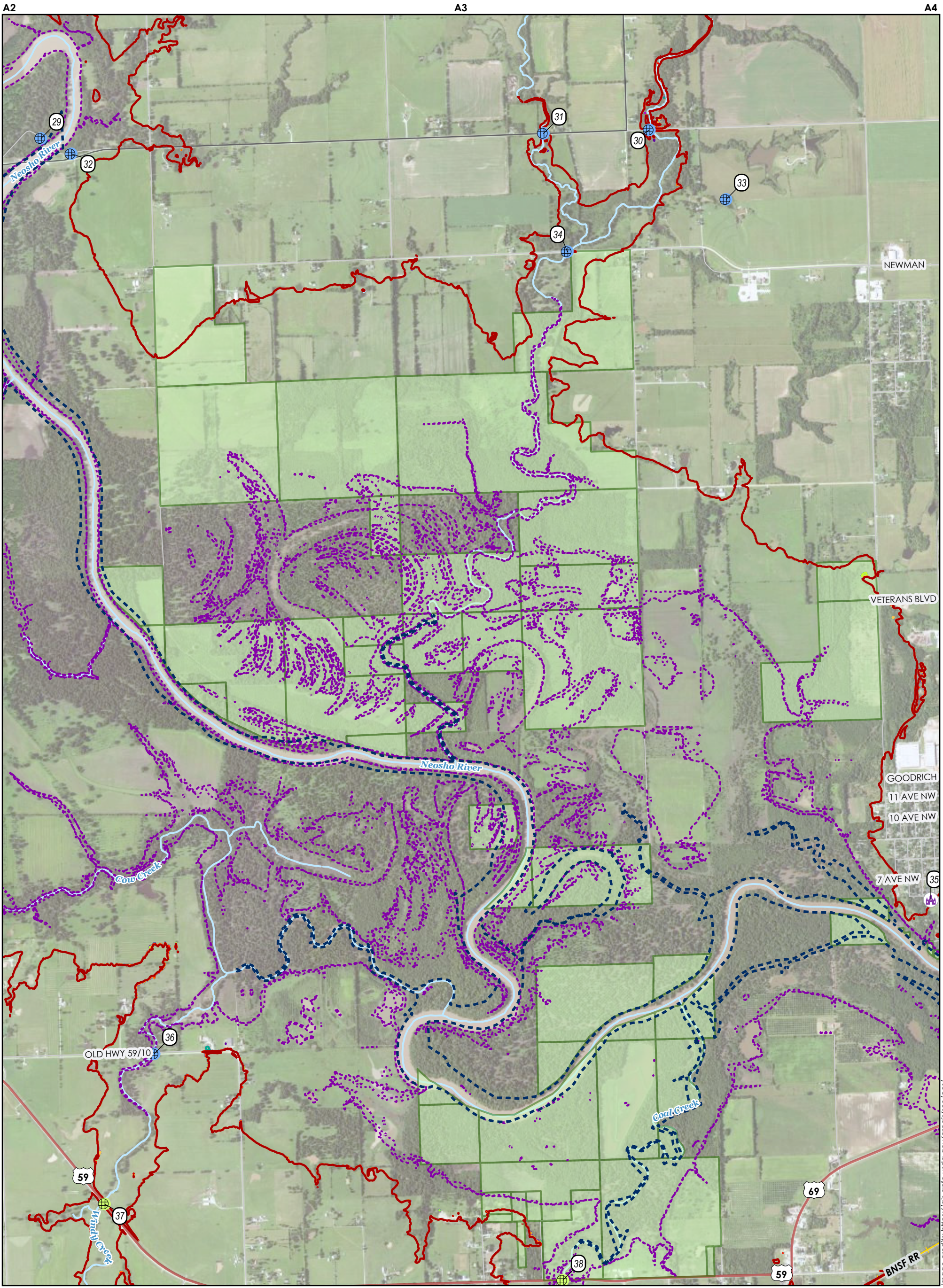
CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

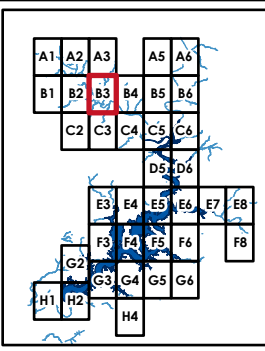
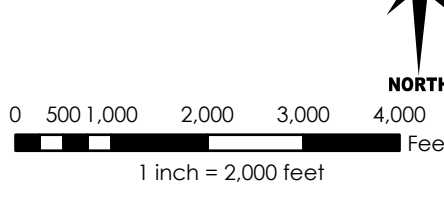
MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Major Collector
State Highway	Local Road
US Highway	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

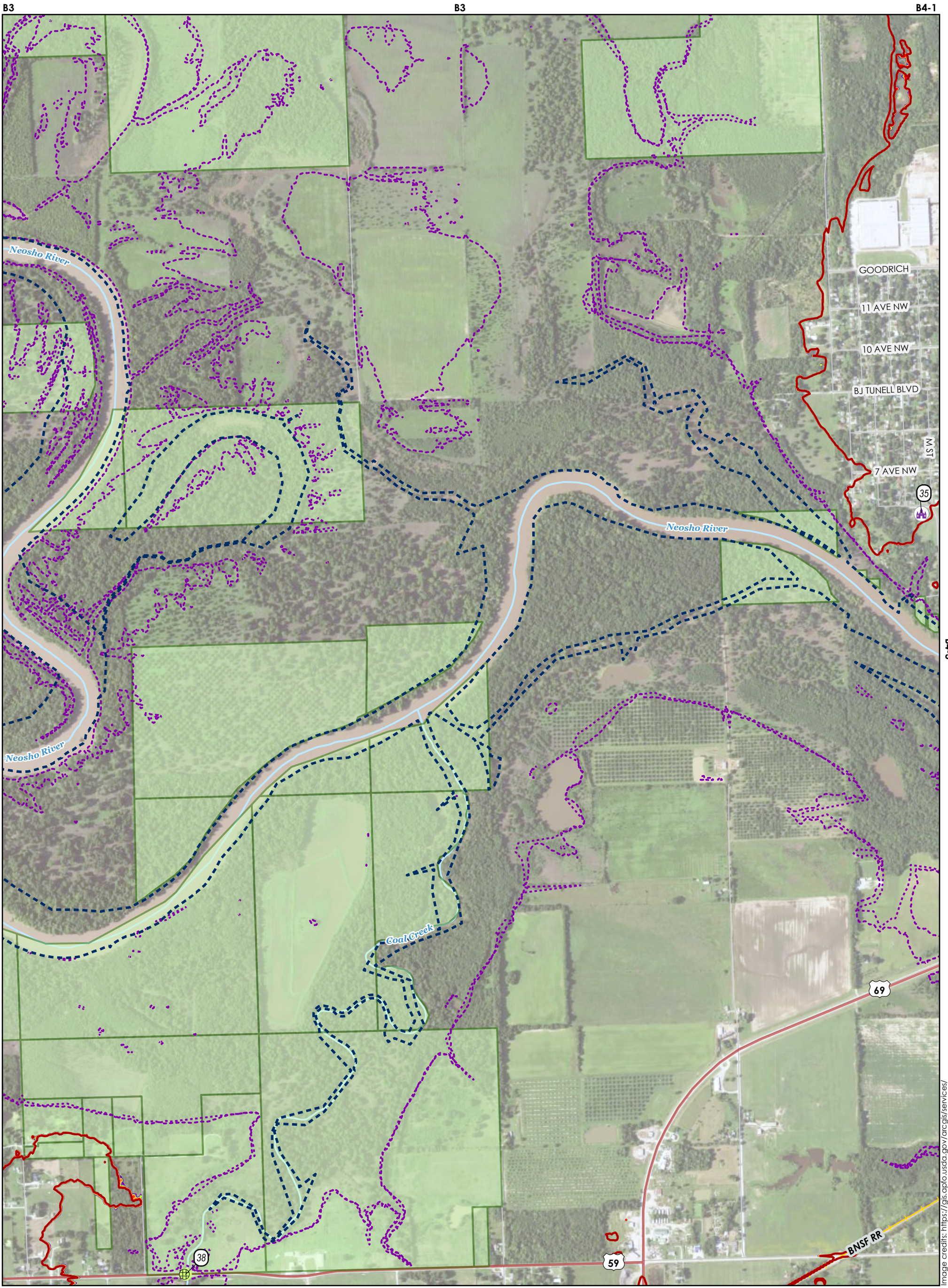
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

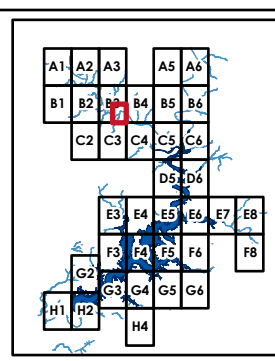


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 250 500 1,000 1,500 2,000
Feet

1 inch = 1,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

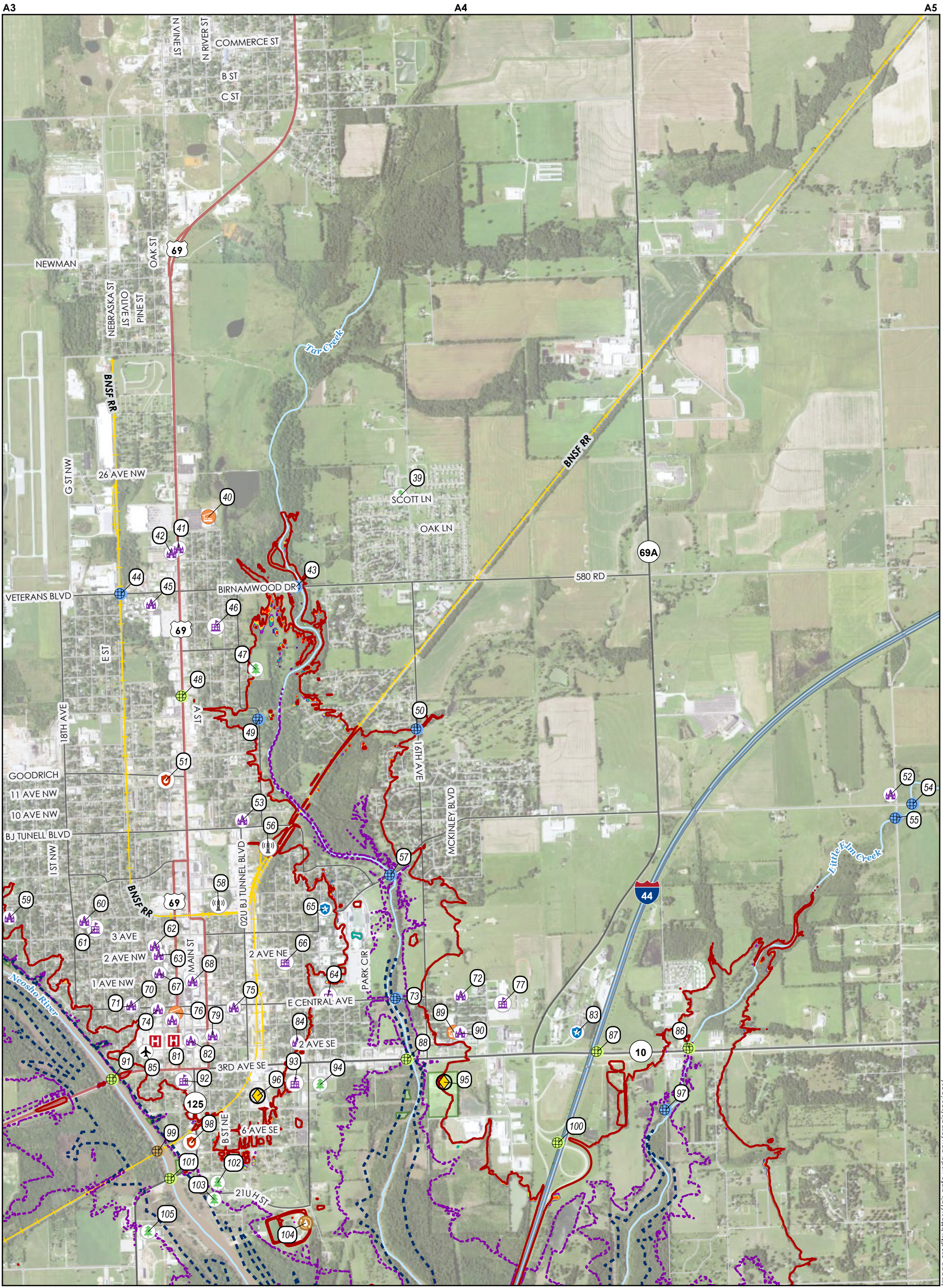
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B3-4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

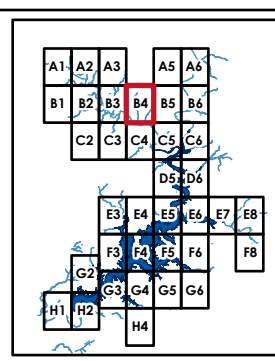


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

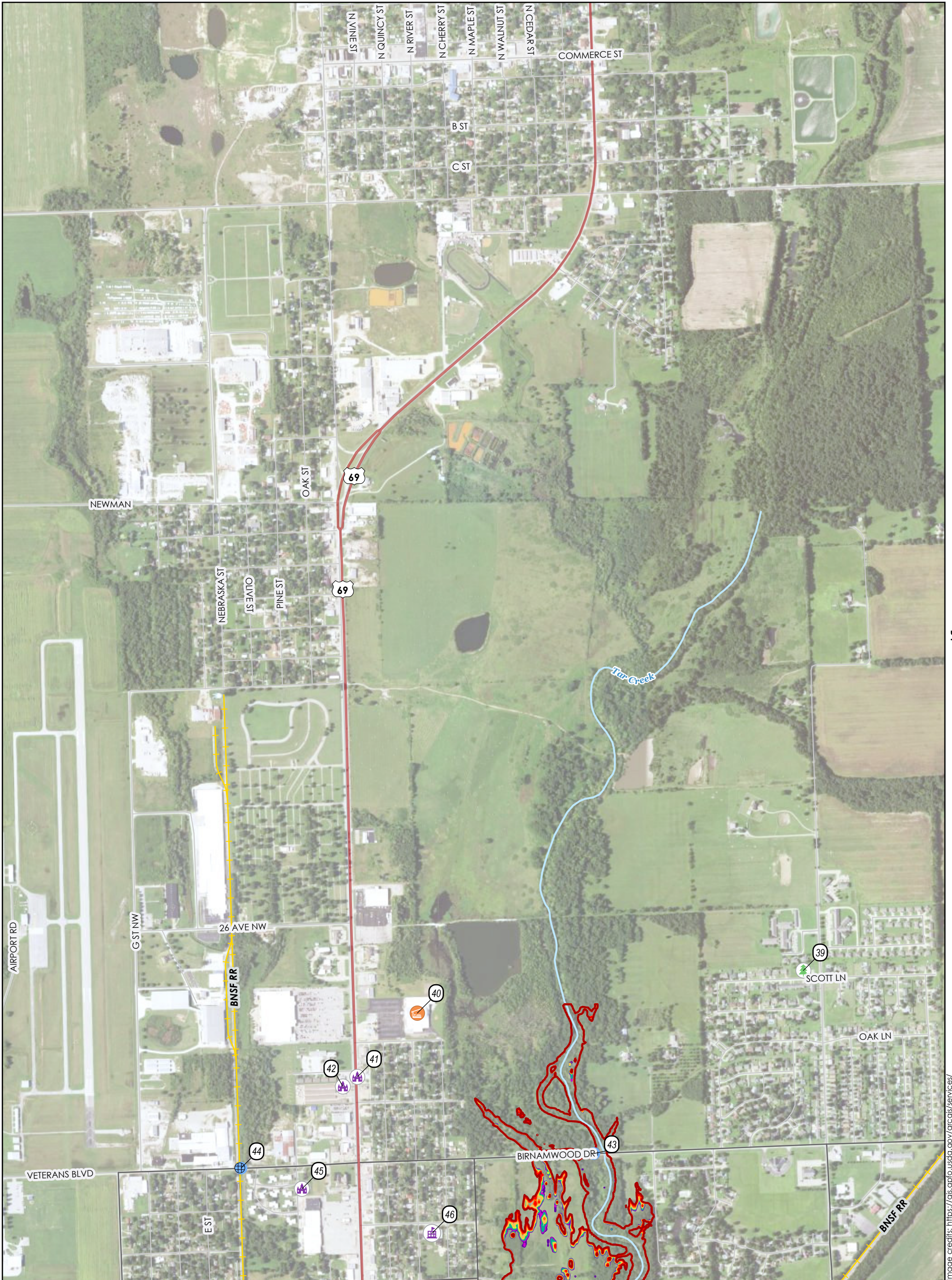
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

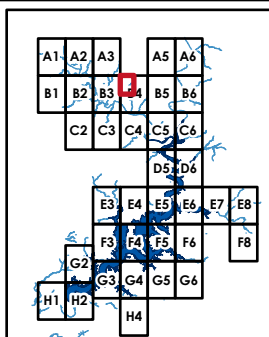
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



0 250 500 1,000 1,500 2,000 Feet
1 inch = 1,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

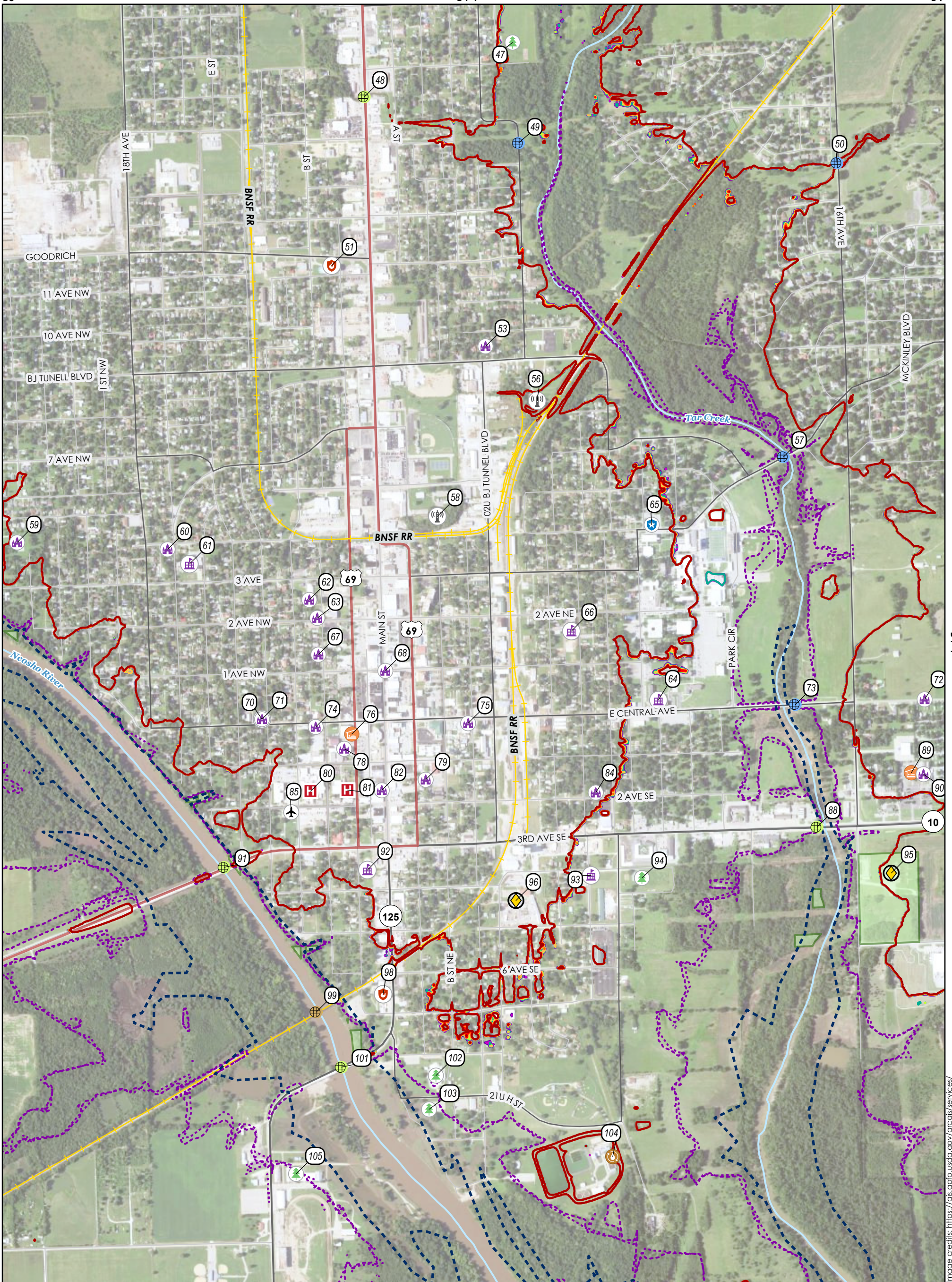
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

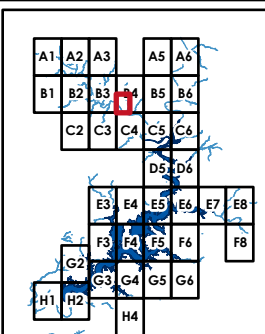
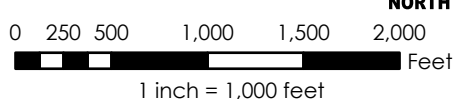
MAP: B4-1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

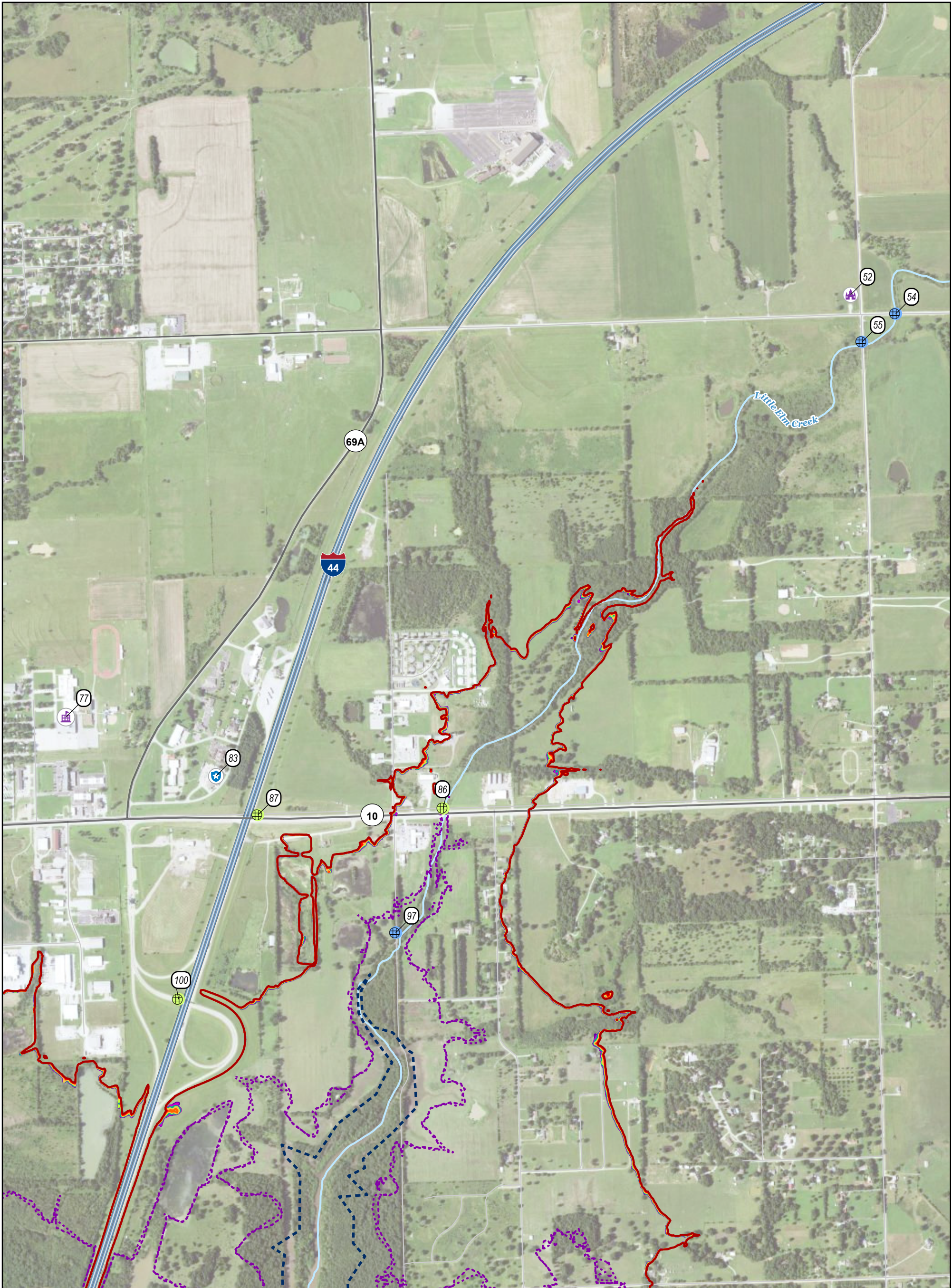
MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

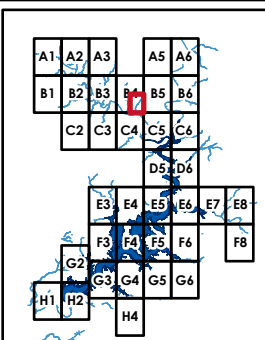
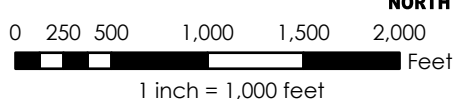
**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: B4-3

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Major Collector
State Highway	Local Road
US Highway	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

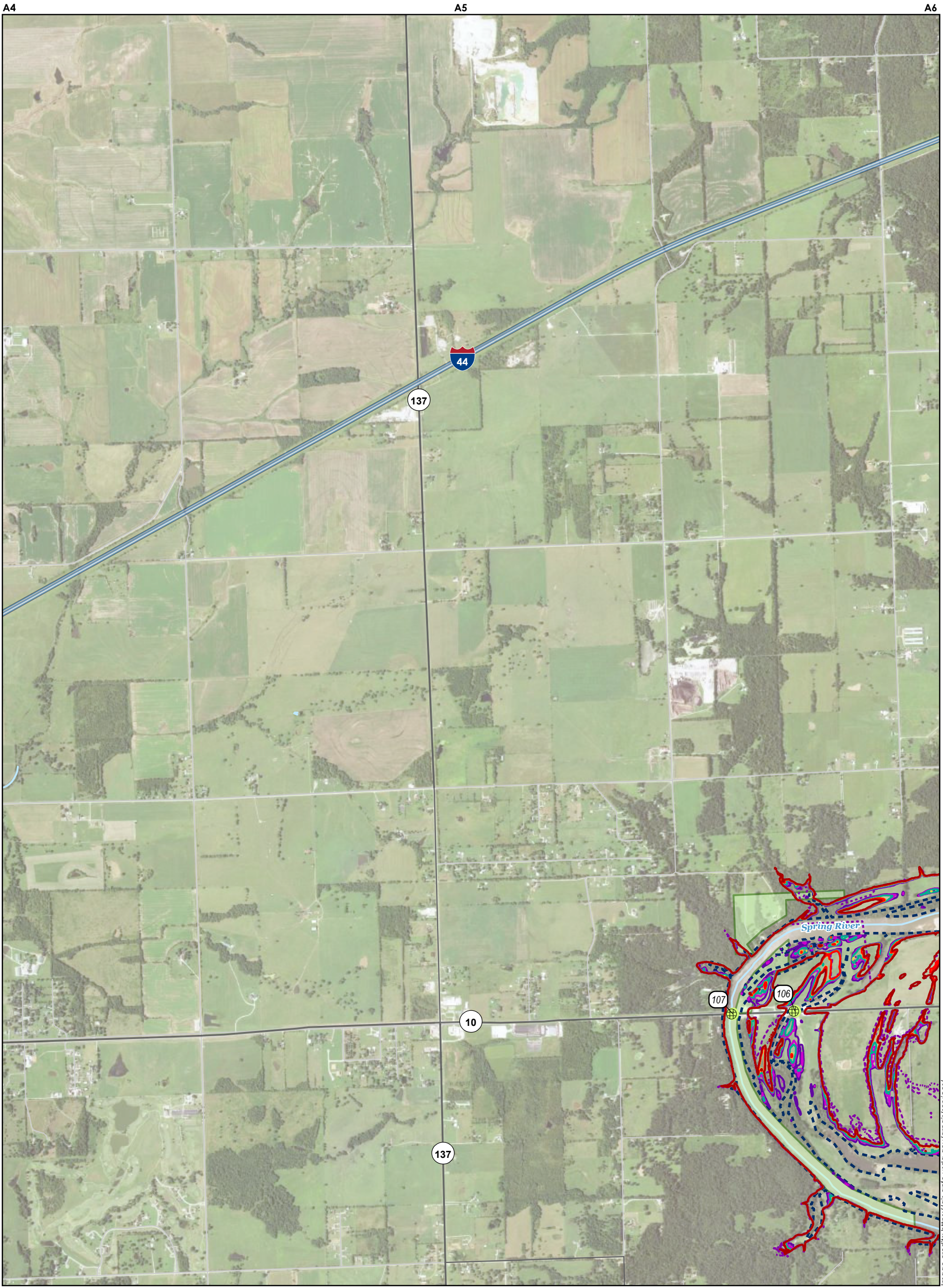
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

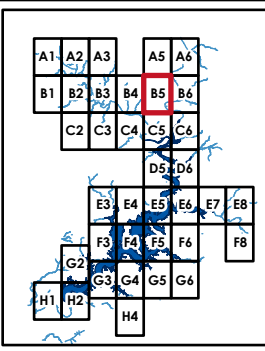
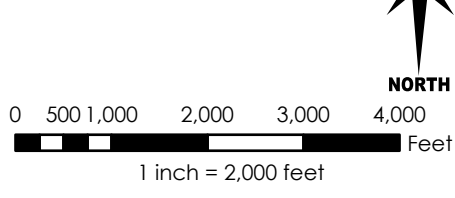
MAP: B4-4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

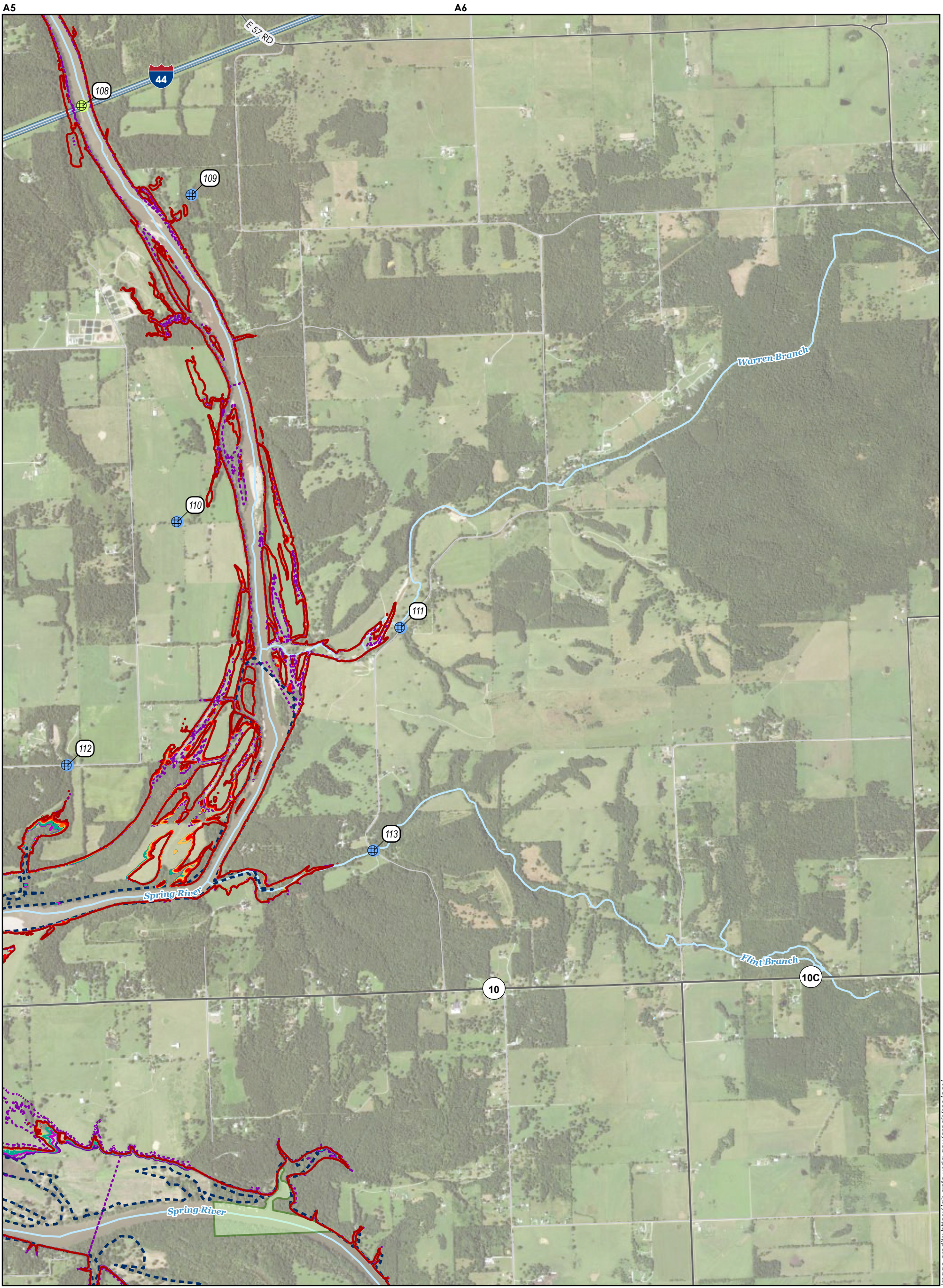
**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: B5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

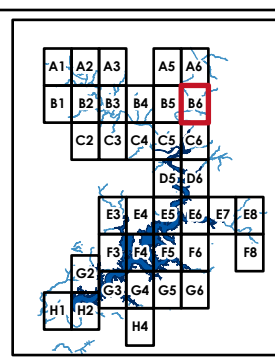


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION			
757.0 ft PD	743.5 ft PD	743.0 ft PD	742.5 ft PD
753.0 ft PD	743.0 ft PD	742.5 ft PD	742.0 ft PD
749.0 ft PD	742.5 ft PD	742.0 ft PD	734.0 ft PD
745.0 ft PD	742.0 ft PD	734.0 ft PD	
744.5 ft PD			
744.0 ft PD			

ROAD CLASS	
Interstate	US Highway
State Highway	Major Collector
Local Road	

Legend	
Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B6

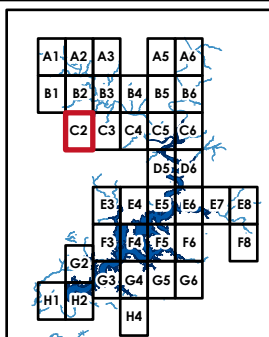
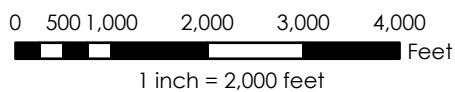
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

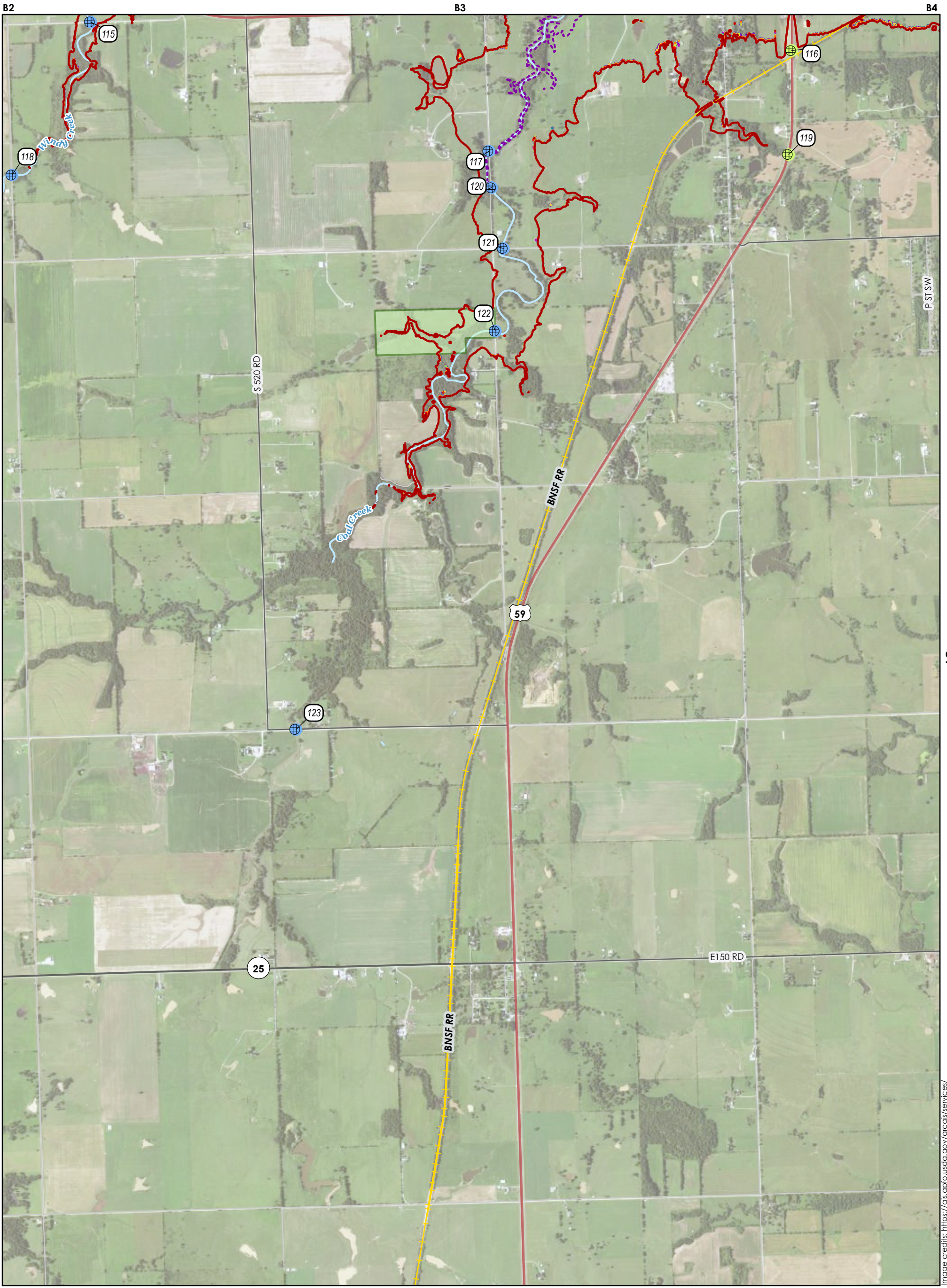
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

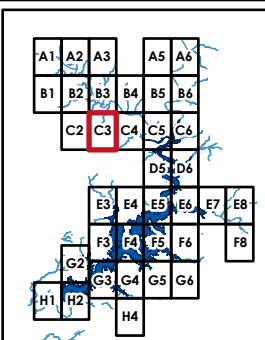
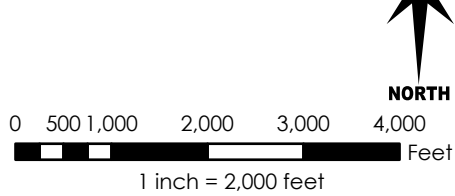
MAP: C2

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

MAP AND LEGEND NOTES

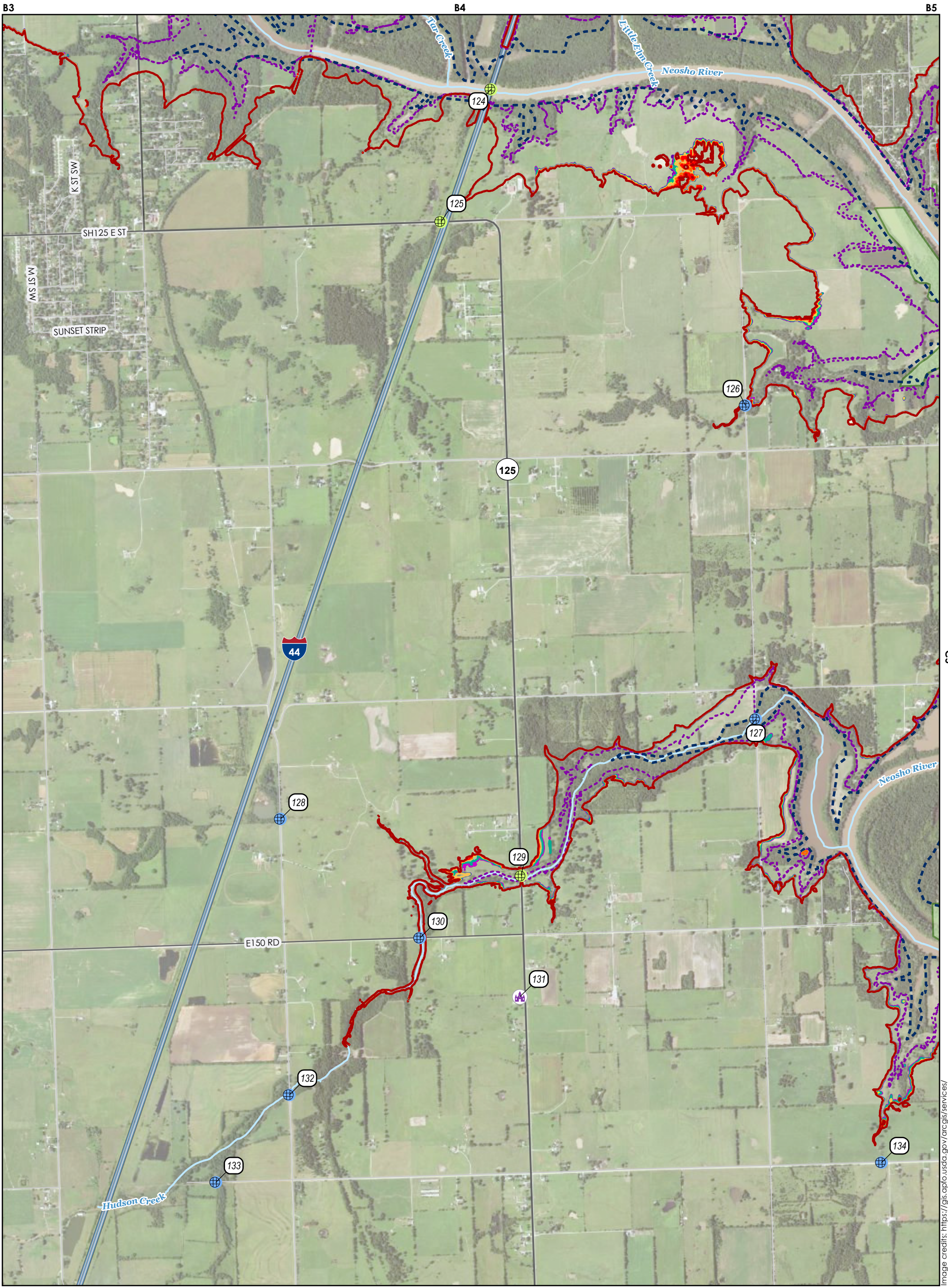
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

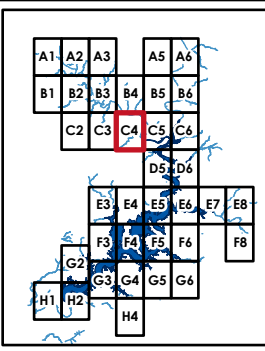
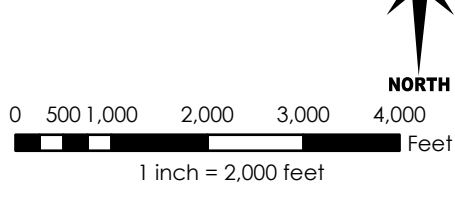
MAP: C3

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

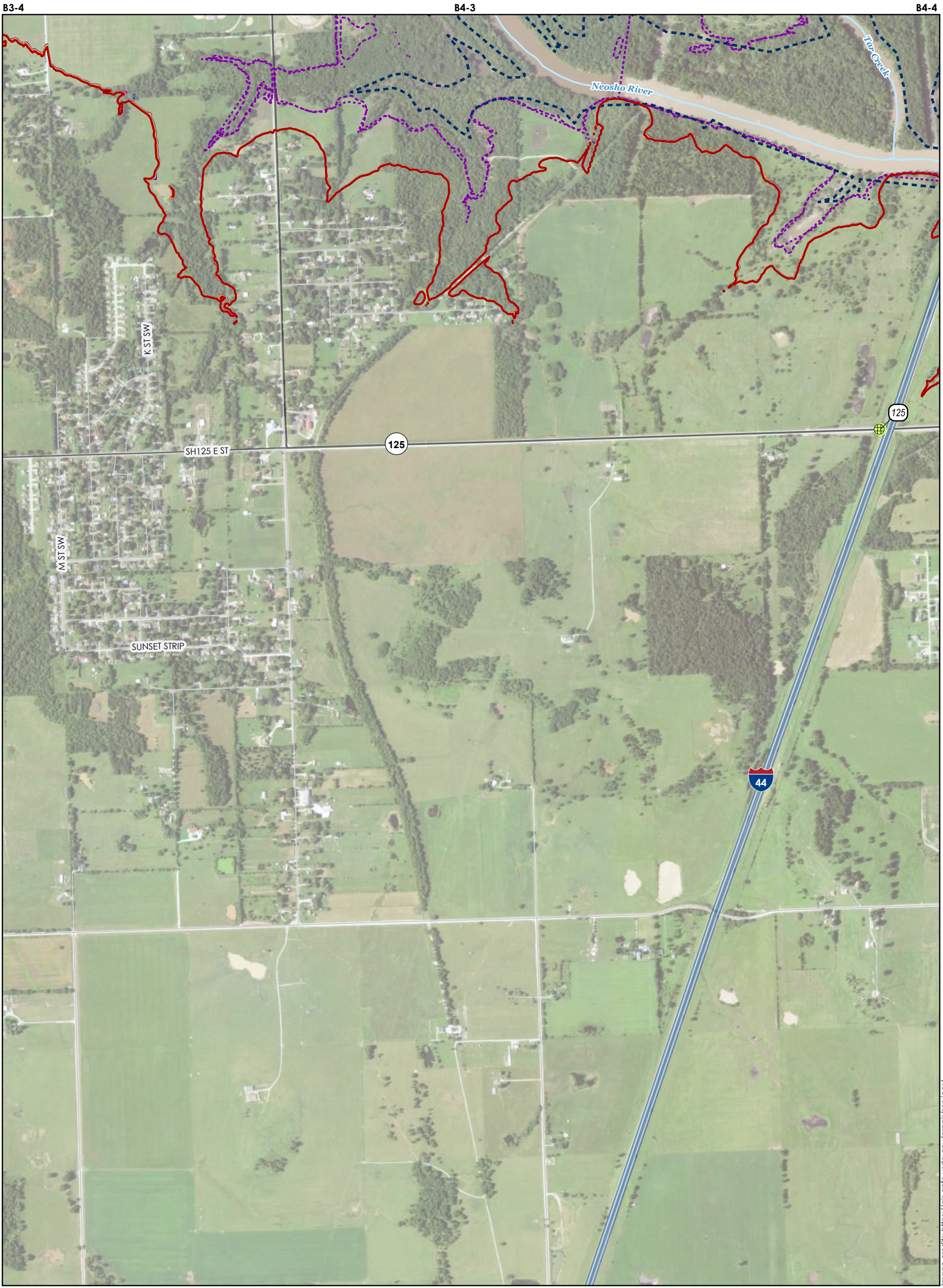
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C4

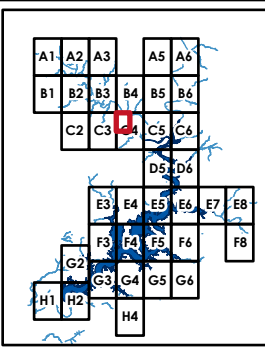
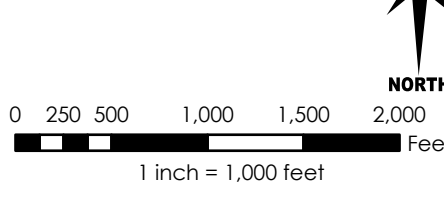
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

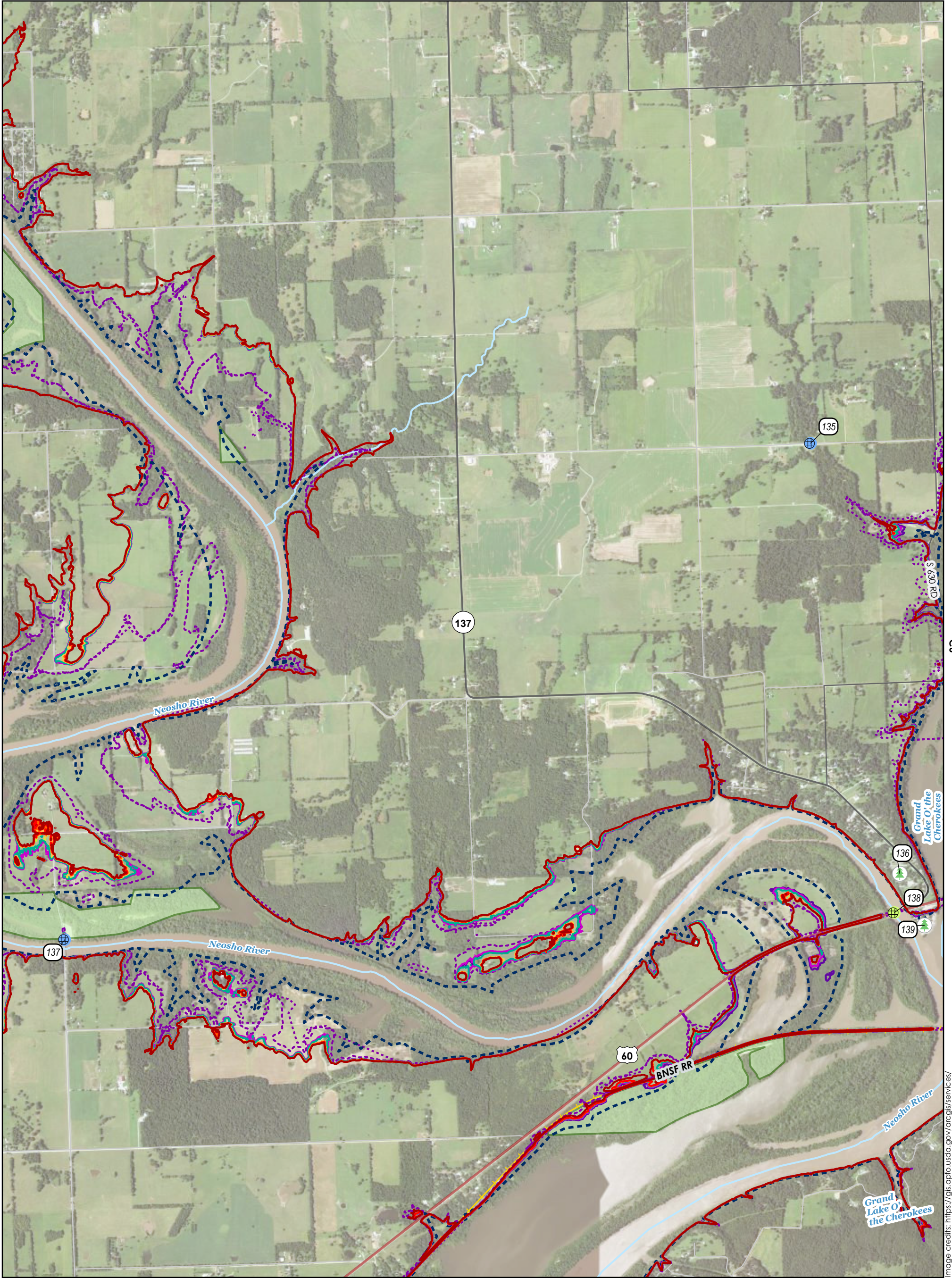
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C4-1

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

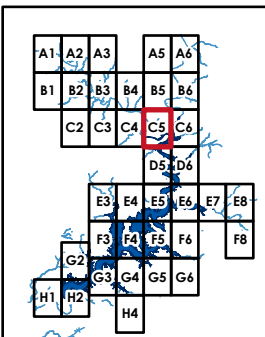
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000 Feet
1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

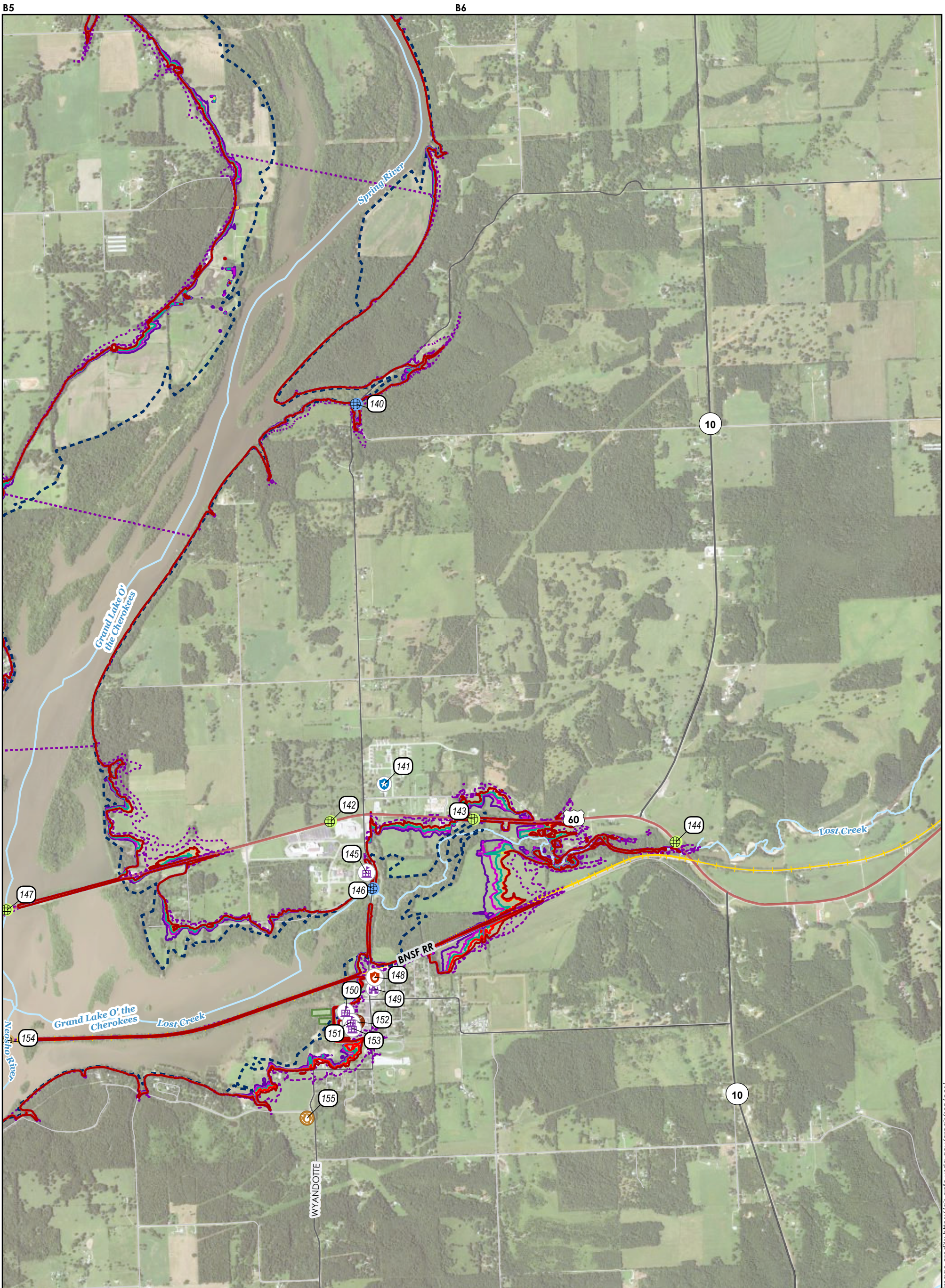
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

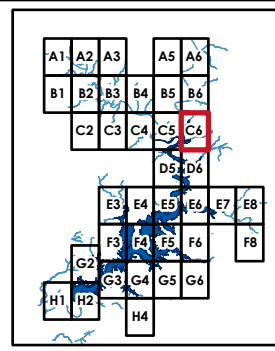


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

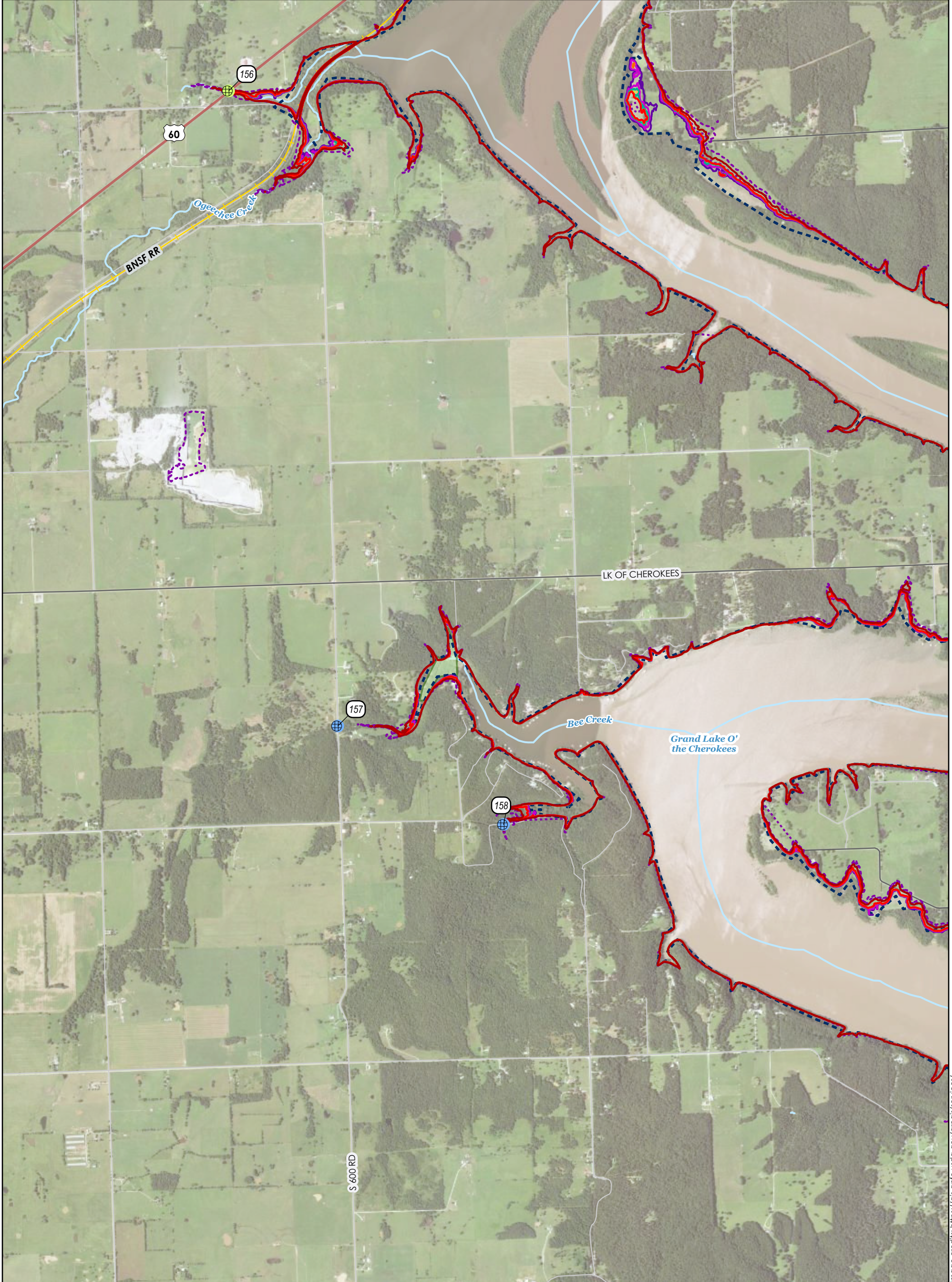
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

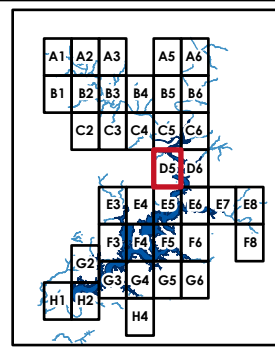
FERC No. 1494
September 2022

Image credits: https://gis.dplp.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

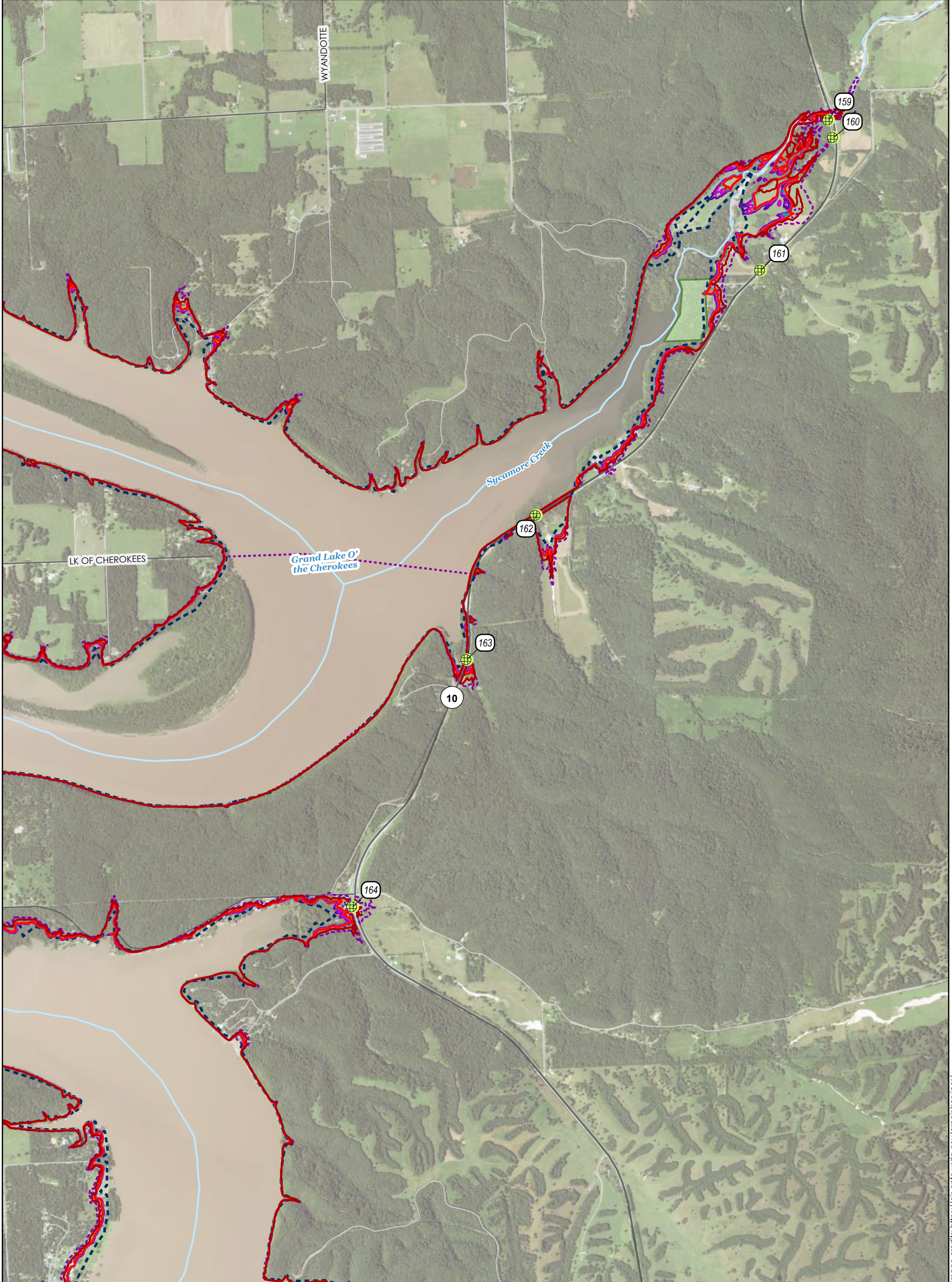
MAP: D5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

C5

C6



E5

E6

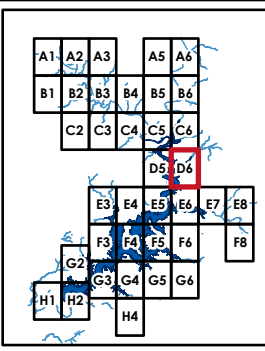
E7

**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: D6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

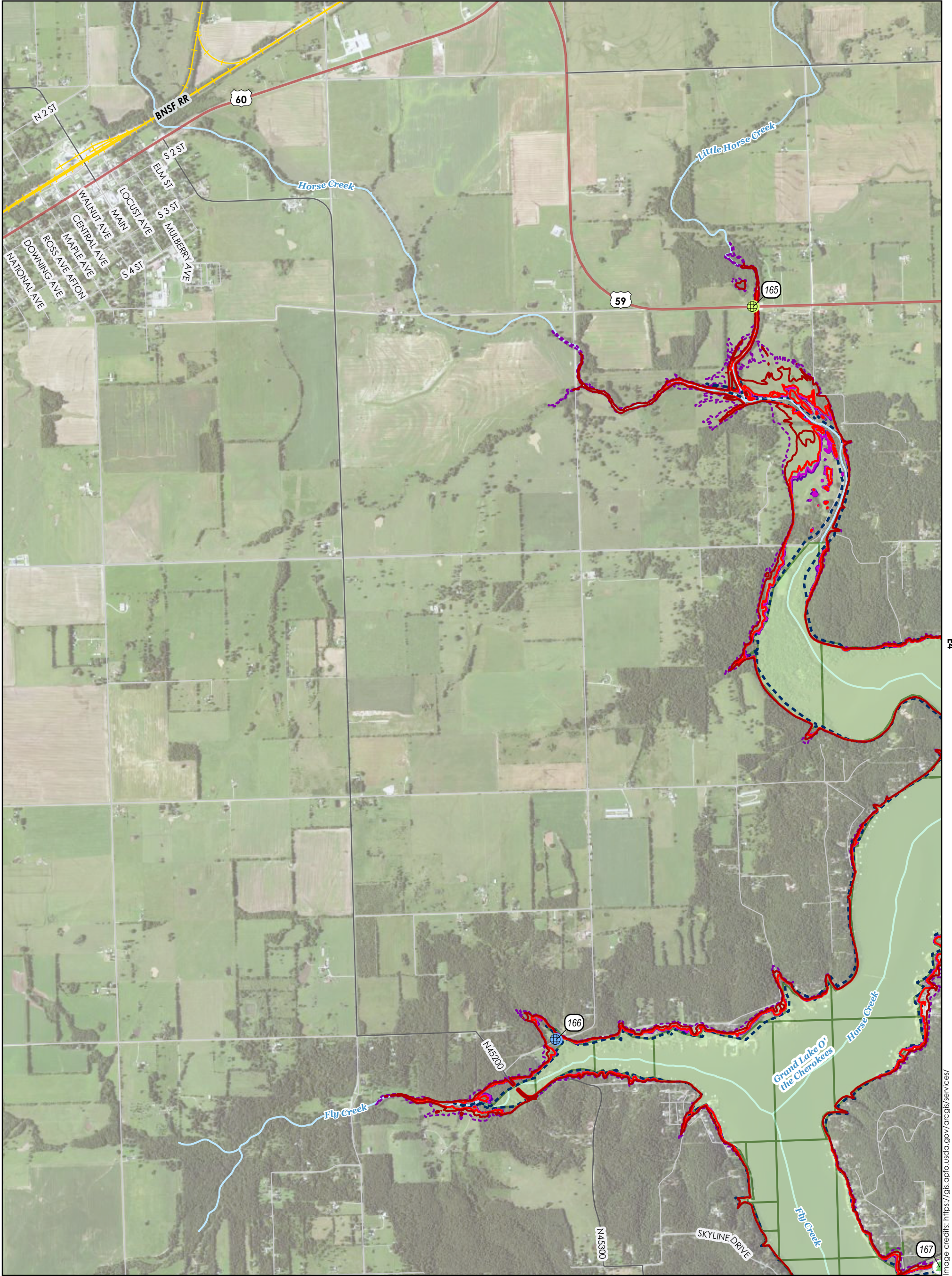
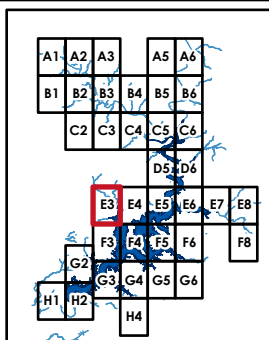


Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000 Feet
1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

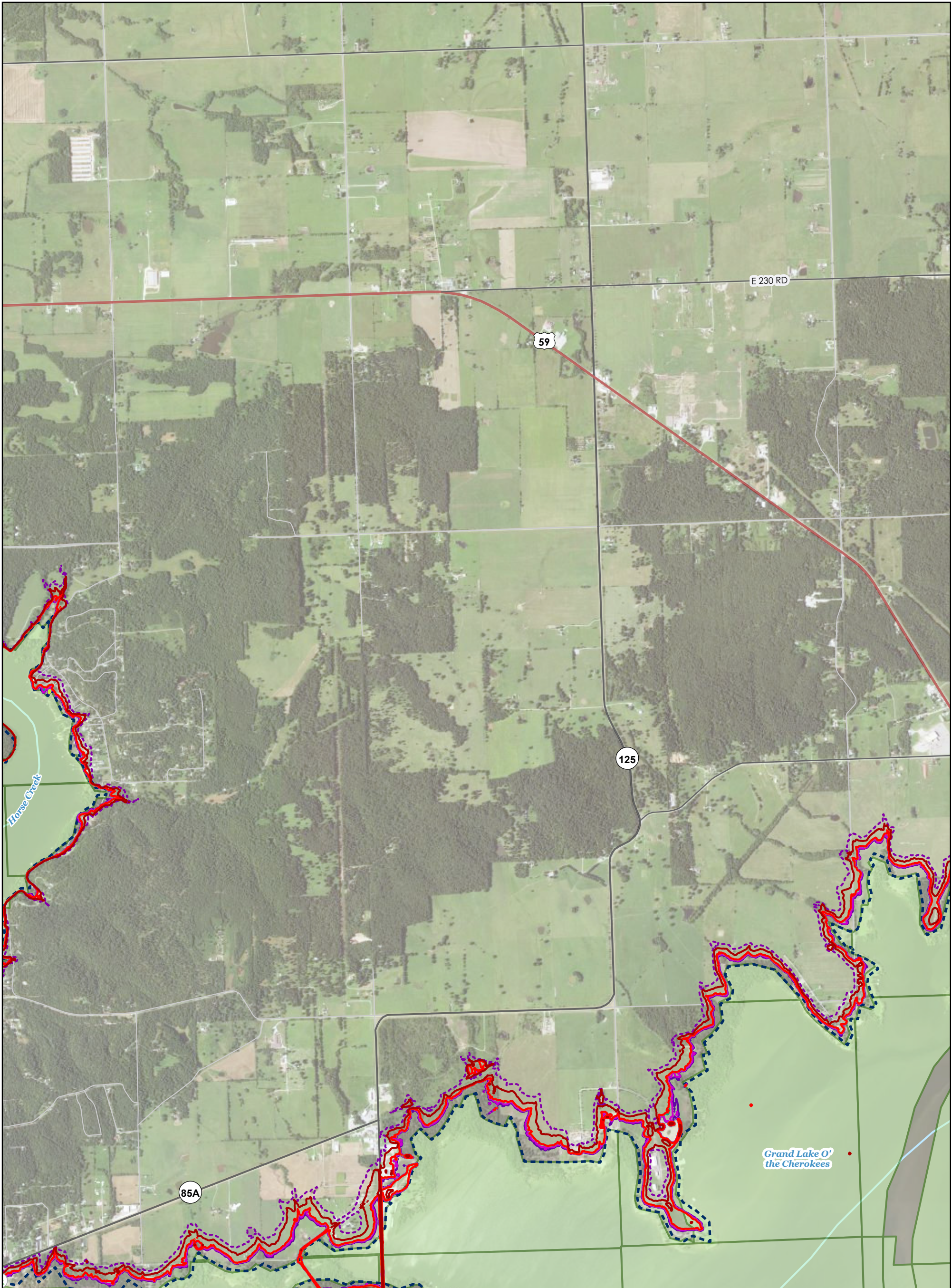
MAP: E3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022

D3

D4

D5



F3

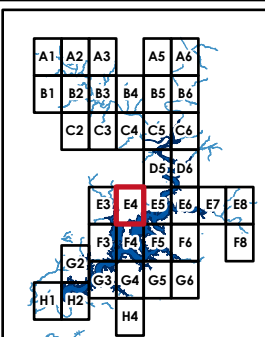
F4

F5

**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000
Feet
1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

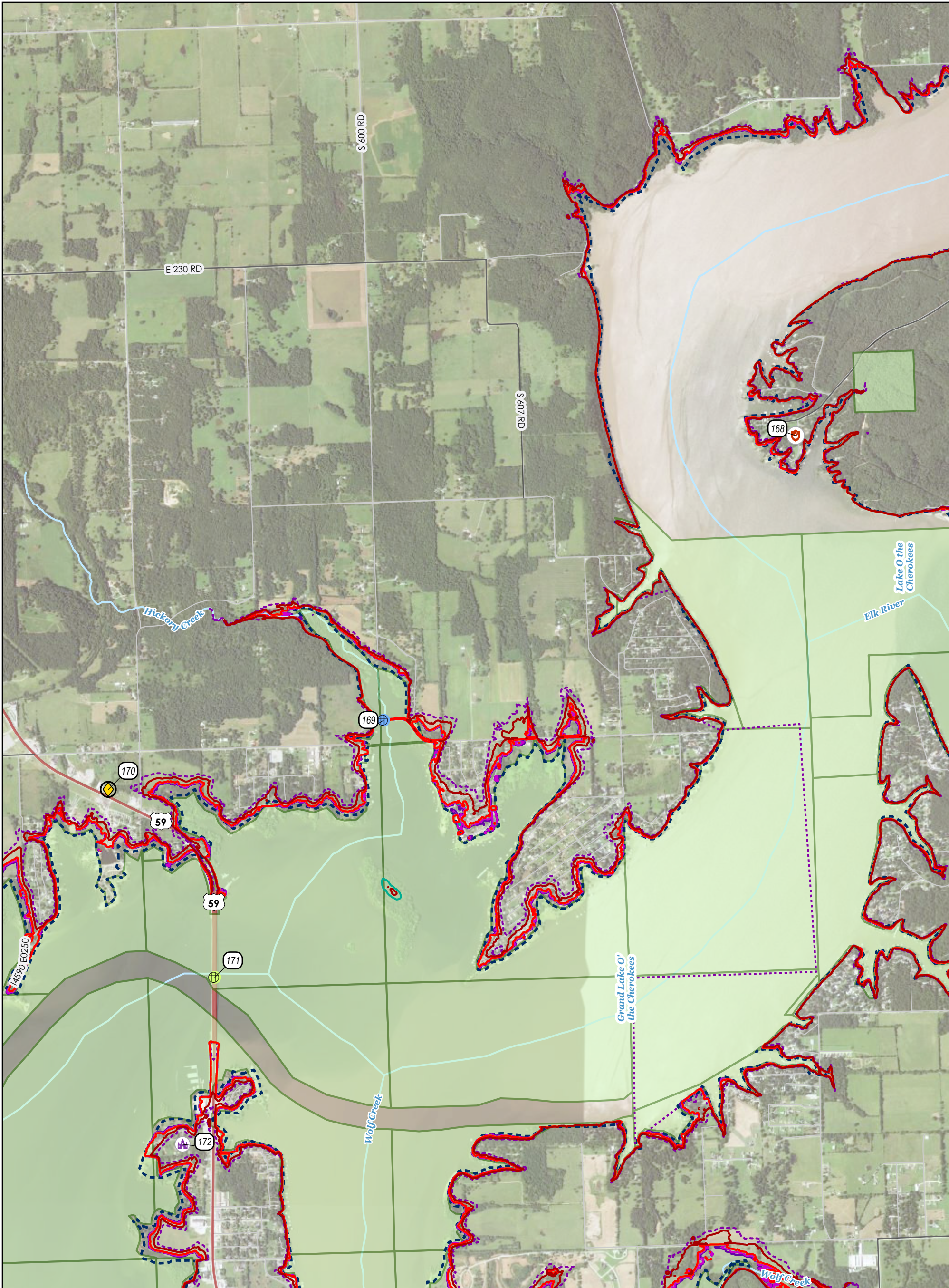
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

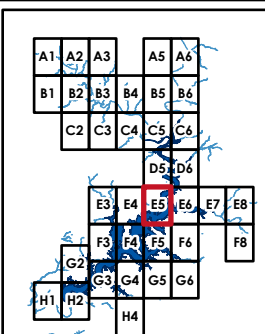
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000 Feet
1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

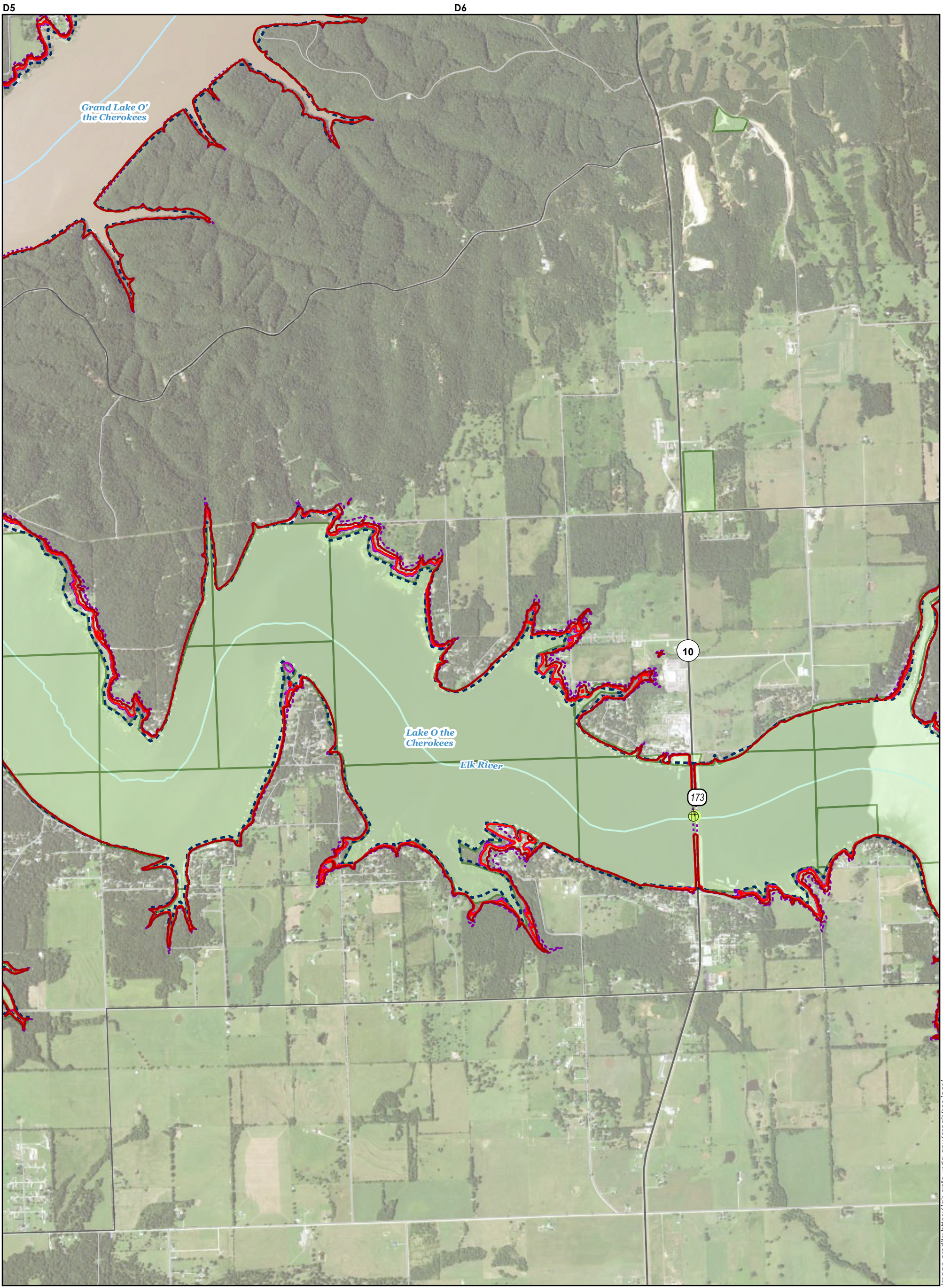
MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022

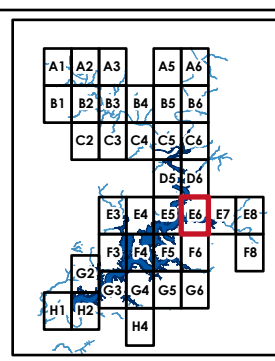


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

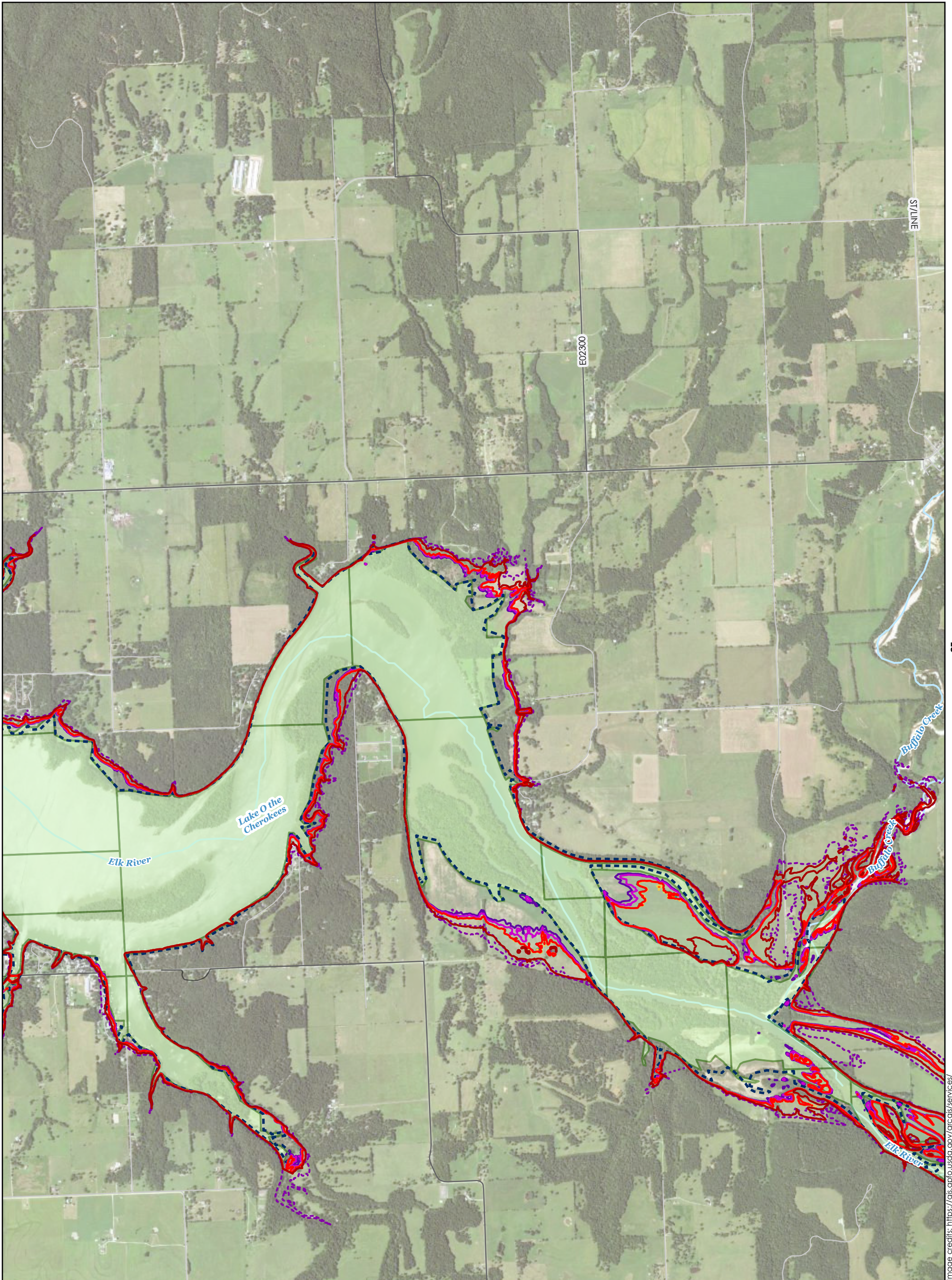
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E6

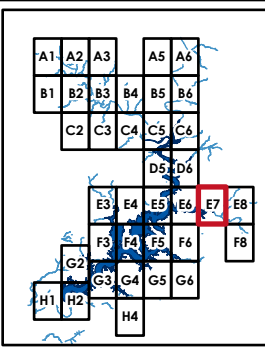
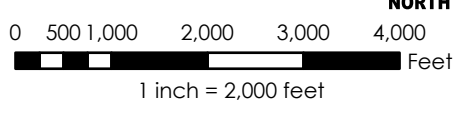
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E7

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

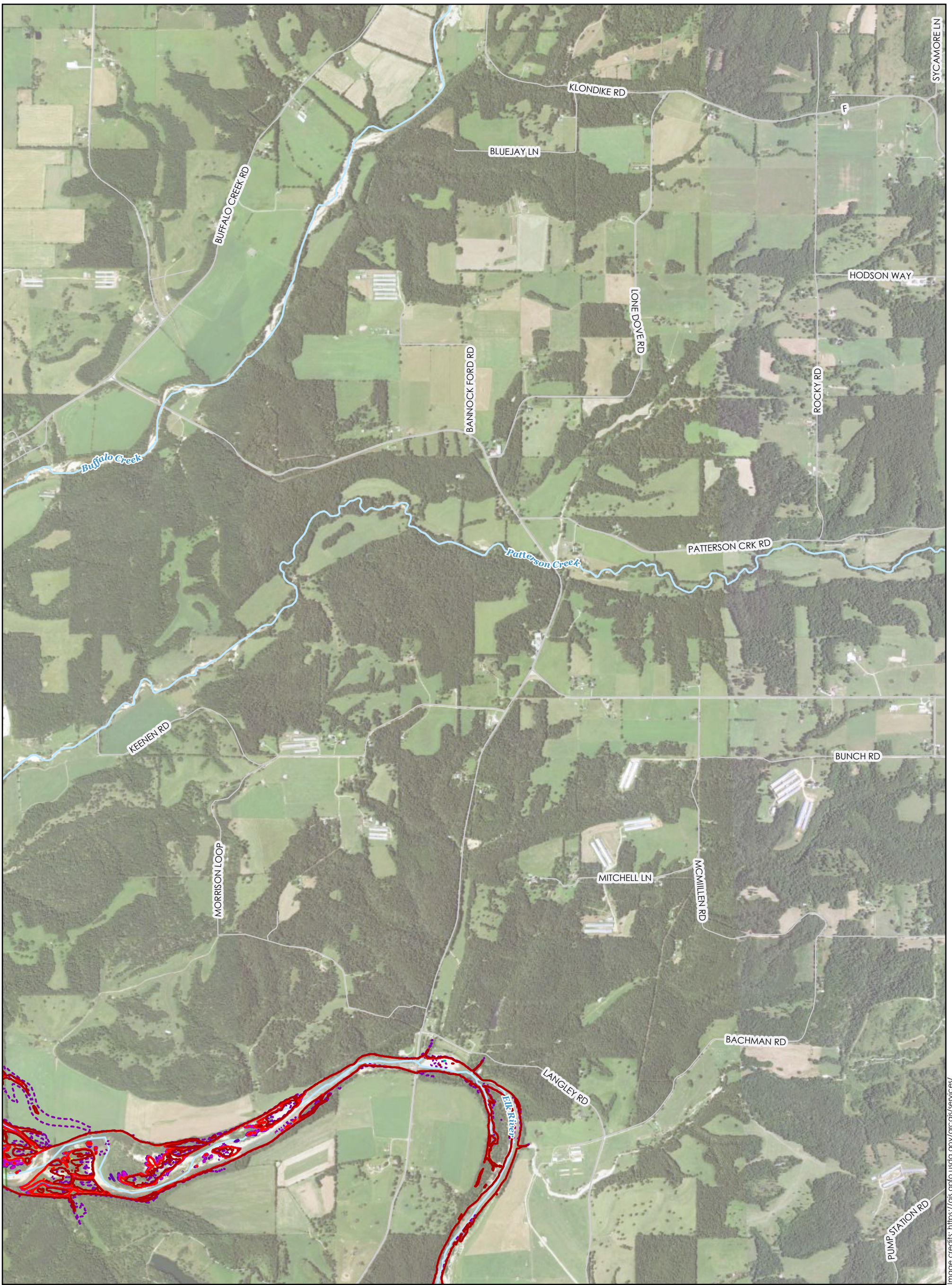


Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6
B1	B2	B3	B4	B5	B6
C1	C2	C3	C4	C5	C6
D1	D2	D3	D4	D5	D6
E1	E2	E3	E4	E5	E6
F1	F2	F3	F4	F5	F6
G1	G2	G3	G4	G5	G6
H1	H2	H3	H4		

JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

	Interstate
	State Highway
	US Highway
	Major Collector
	Local Road

	Railroad
	Stream
	Flowage Easements
	Project Boundary
	GRDA Ownership

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

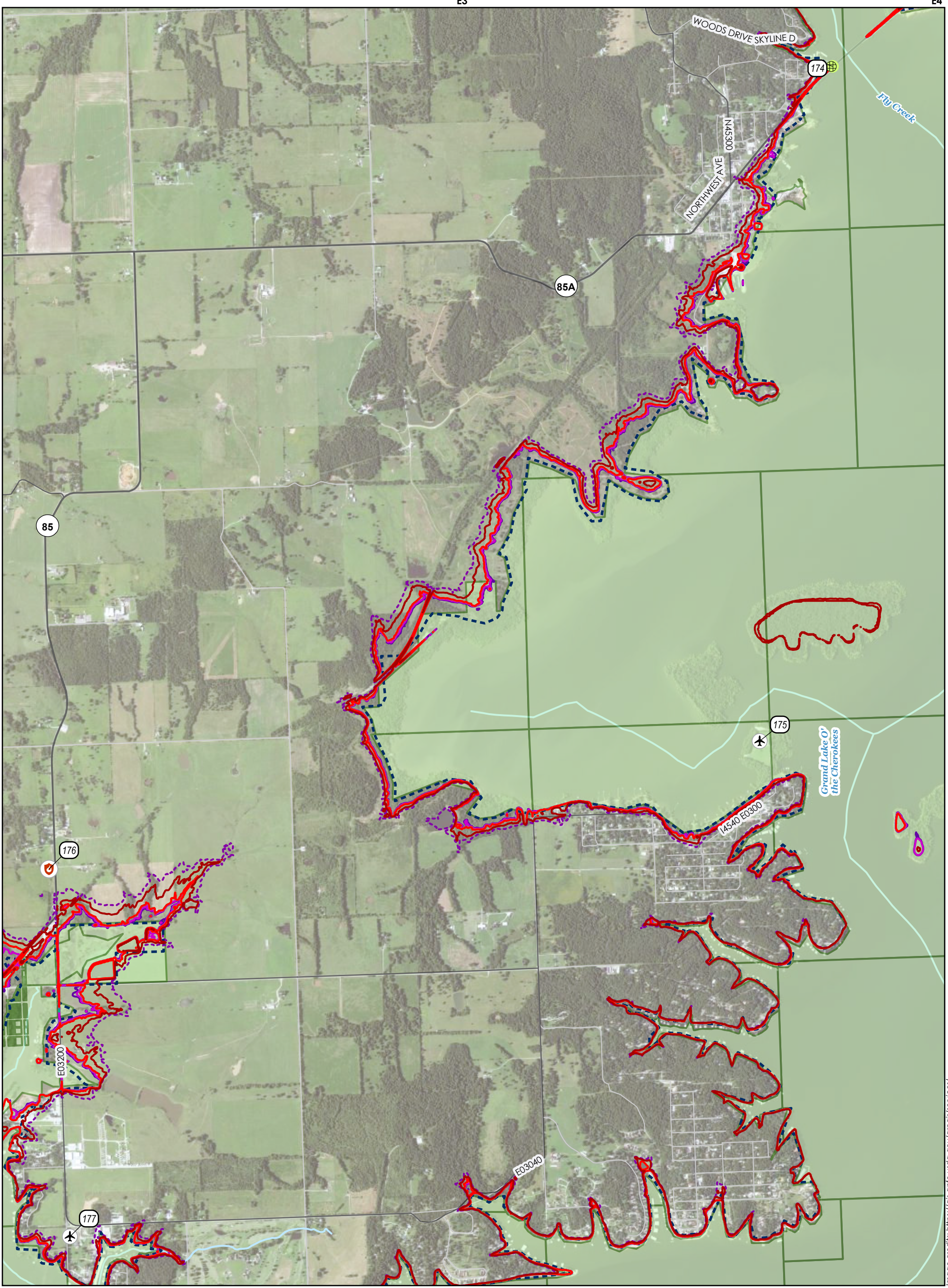
MAP: E8

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

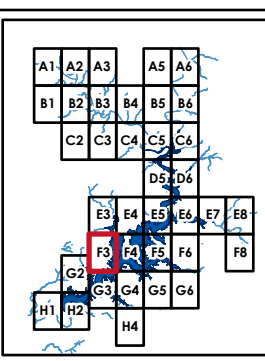


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION		ROAD CLASS	
757.0 ft PD	743.5 ft PD	Interstate	Railroad
753.0 ft PD	743.0 ft PD	State Highway	Stream
749.0 ft PD	742.5 ft PD	US Highway	Flowage Easements
745.0 ft PD	742.0 ft PD	Major Collector	Project Boundary
744.5 ft PD	734.0 ft PD	Local Road	GRDA Ownership
744.0 ft PD			

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

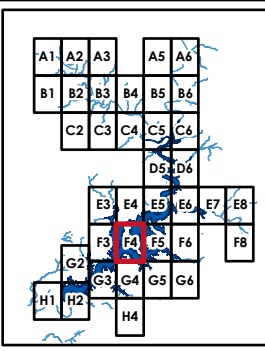
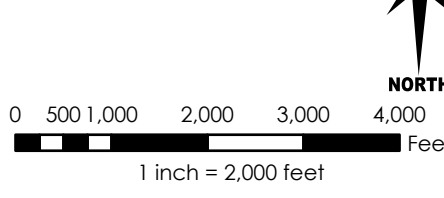
MAP: F3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

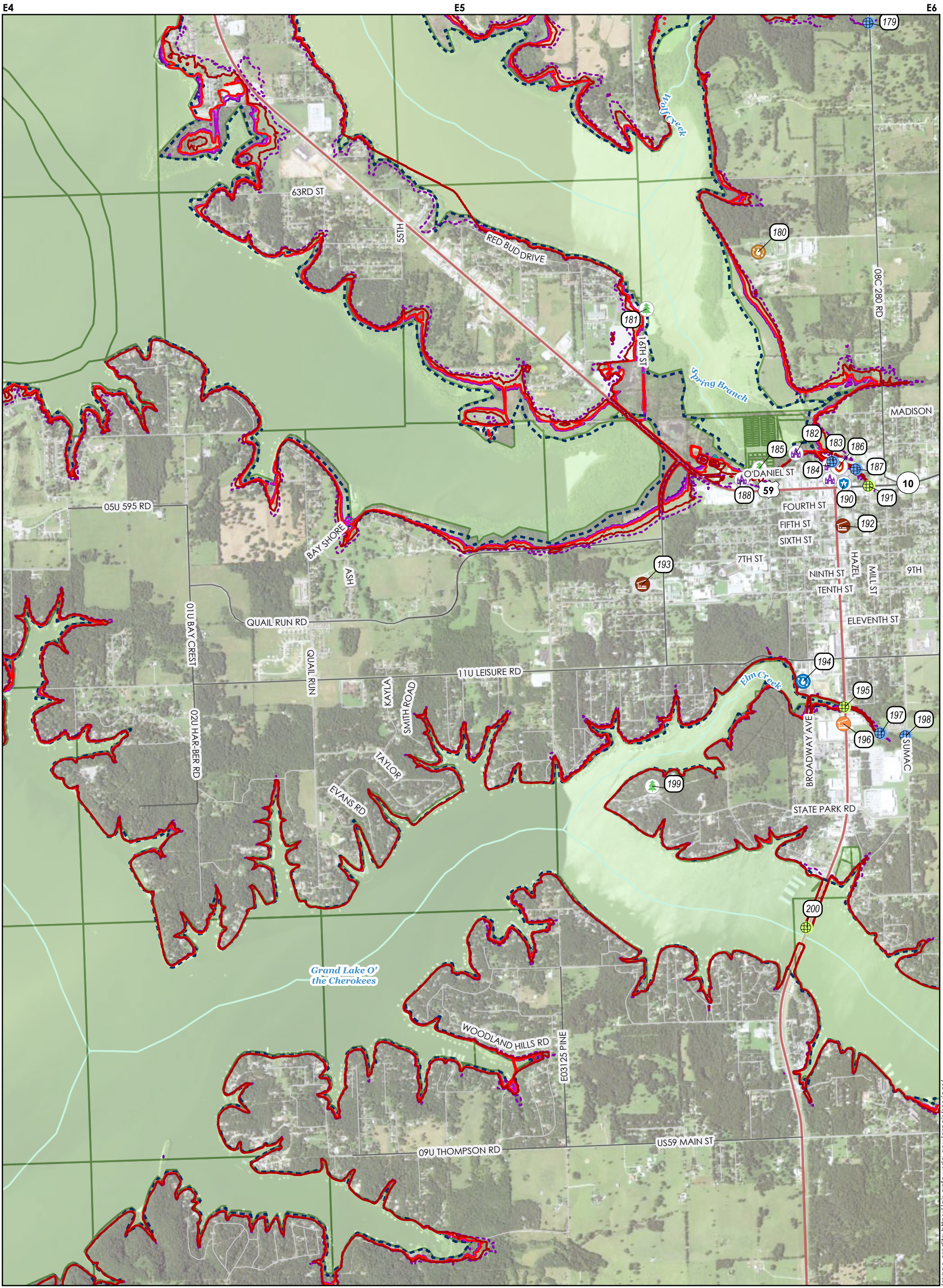
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

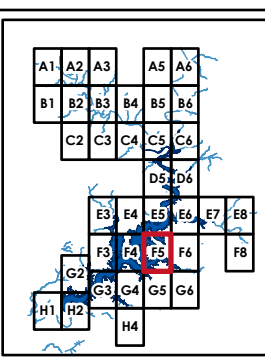


JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

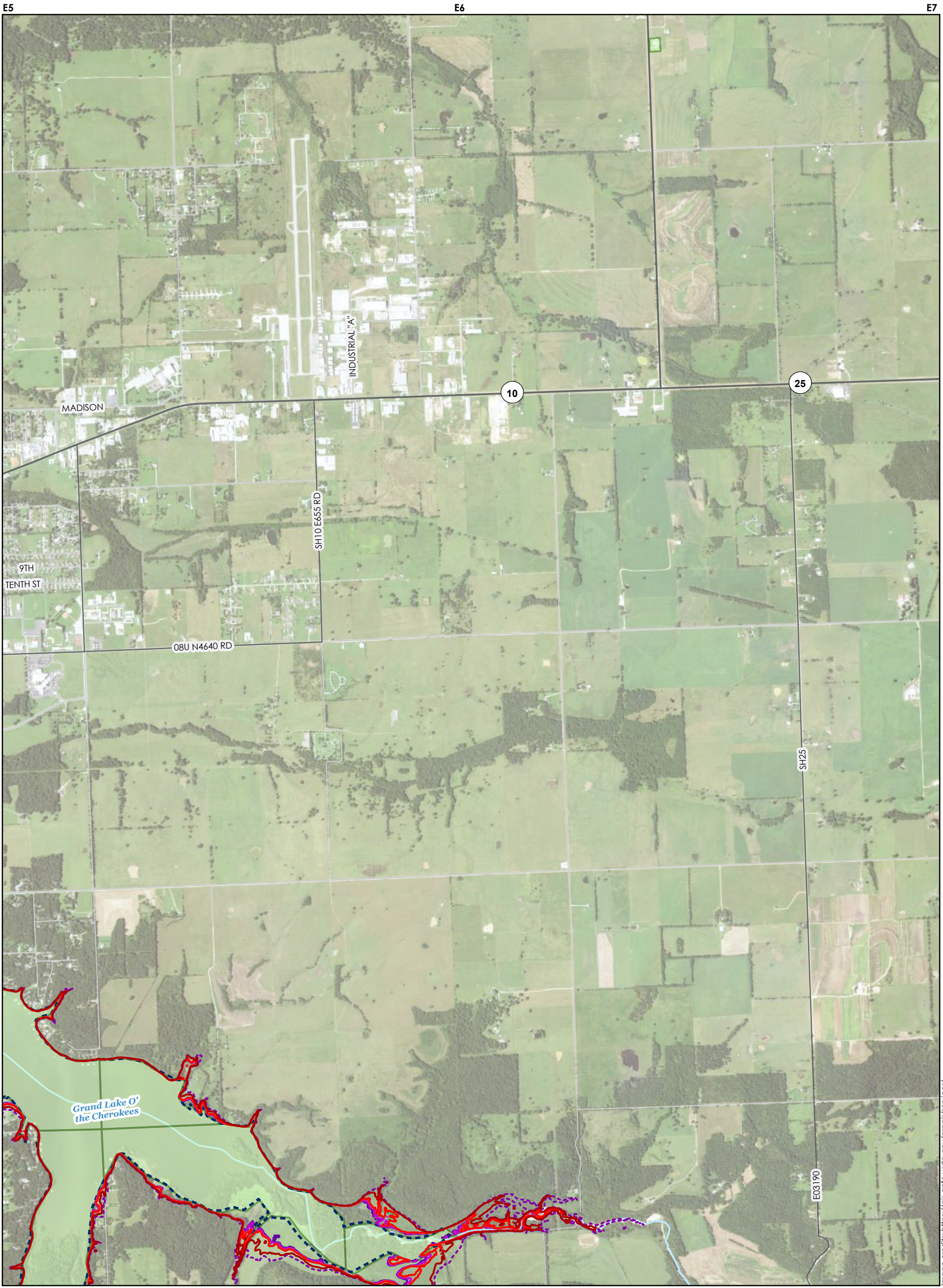
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F5

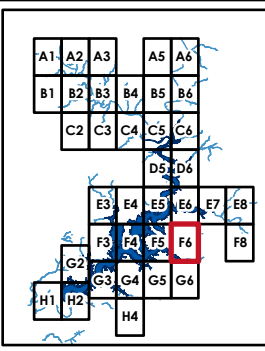
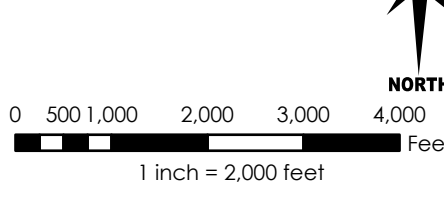
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
 September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Flowage Easements
Stream	Project Boundary
	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F6

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

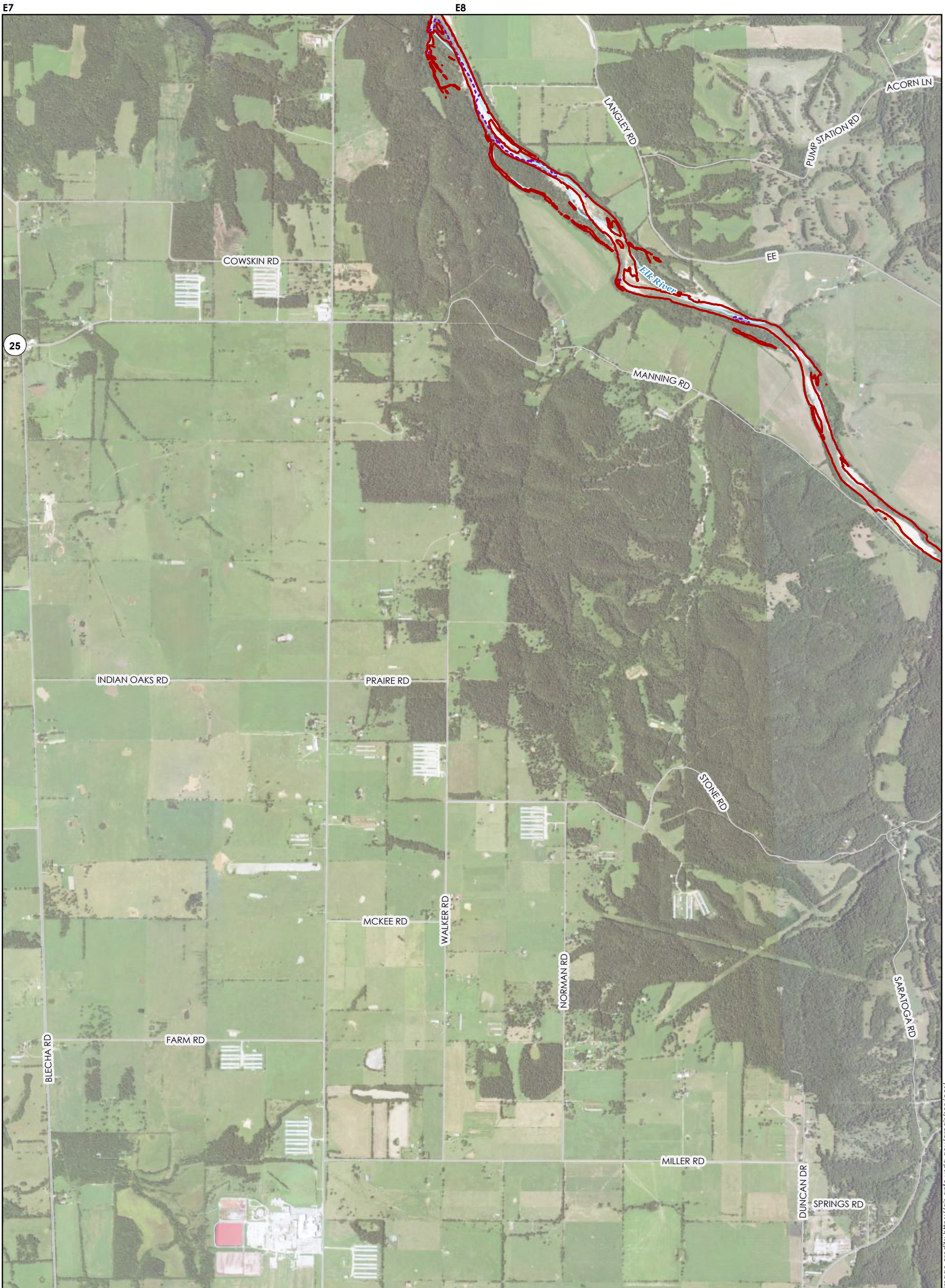


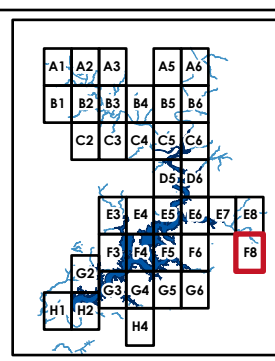
Image credits: https://gis.dplp.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

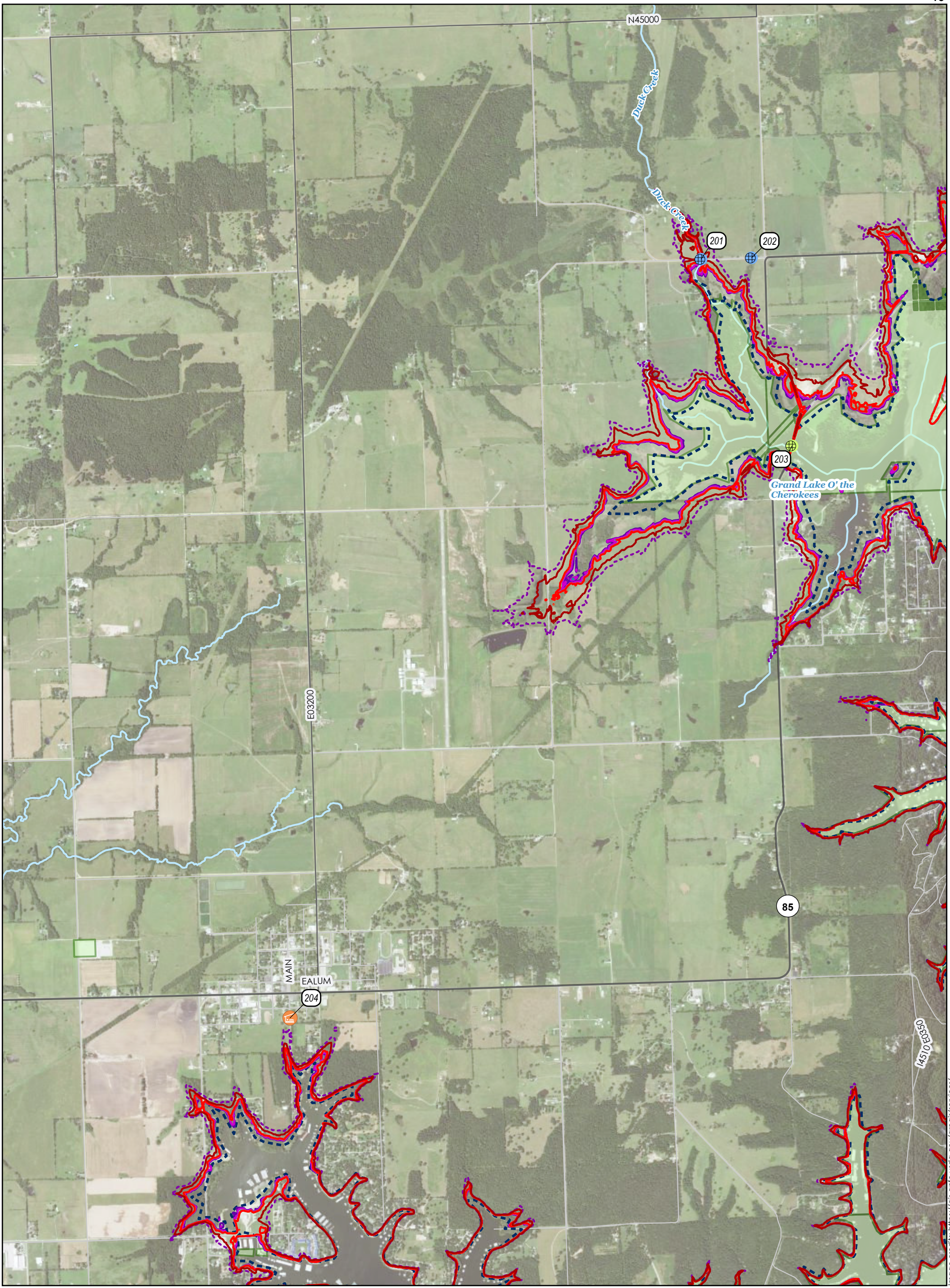
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F8

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

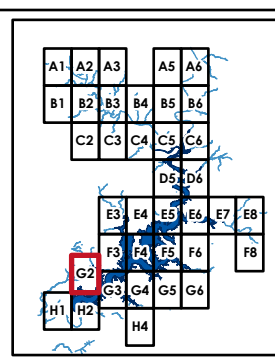


JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

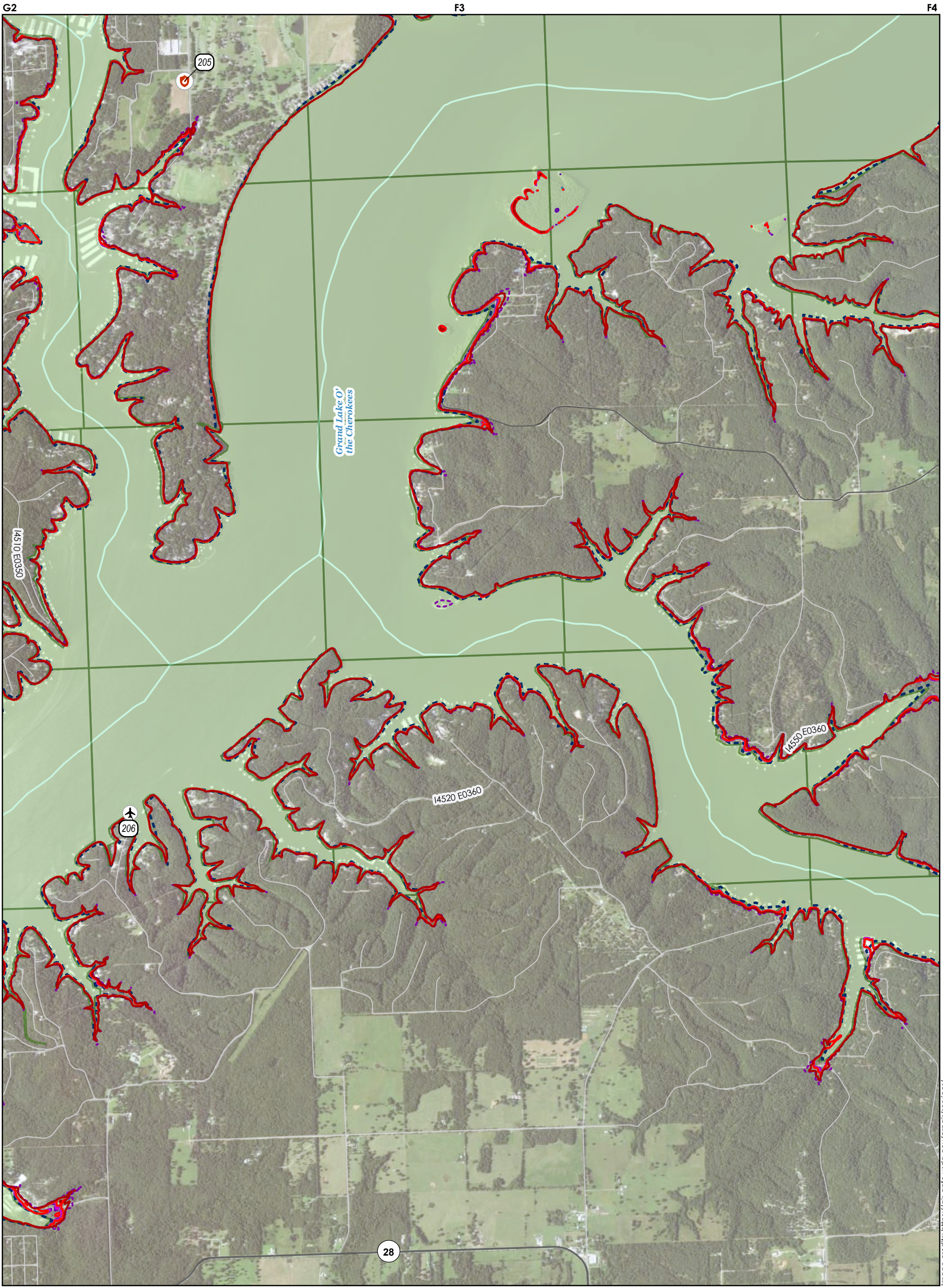
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

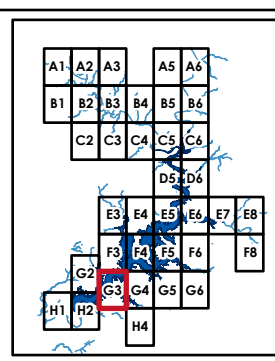


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

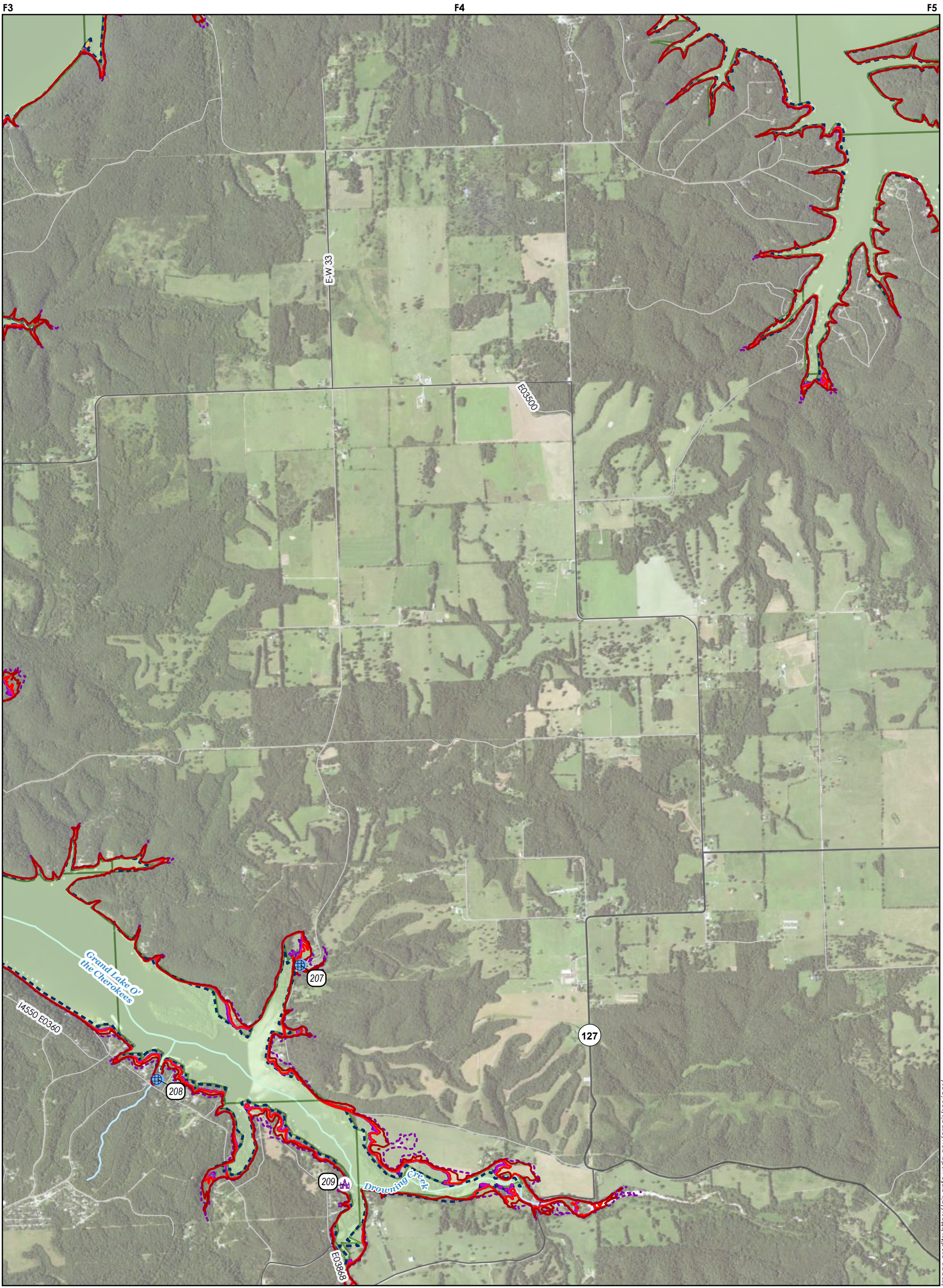
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G3

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

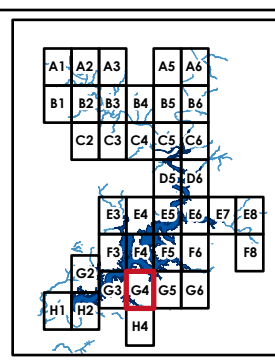


**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION		ROAD CLASS	
757.0 ft PD	743.5 ft PD	Interstate	Railroad
753.0 ft PD	743.0 ft PD	State Highway	Stream
749.0 ft PD	742.5 ft PD	US Highway	Flowage Easements
745.0 ft PD	742.0 ft PD	Major Collector	Project Boundary
744.5 ft PD	734.0 ft PD	Local Road	GRDA Ownership
744.0 ft PD			

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

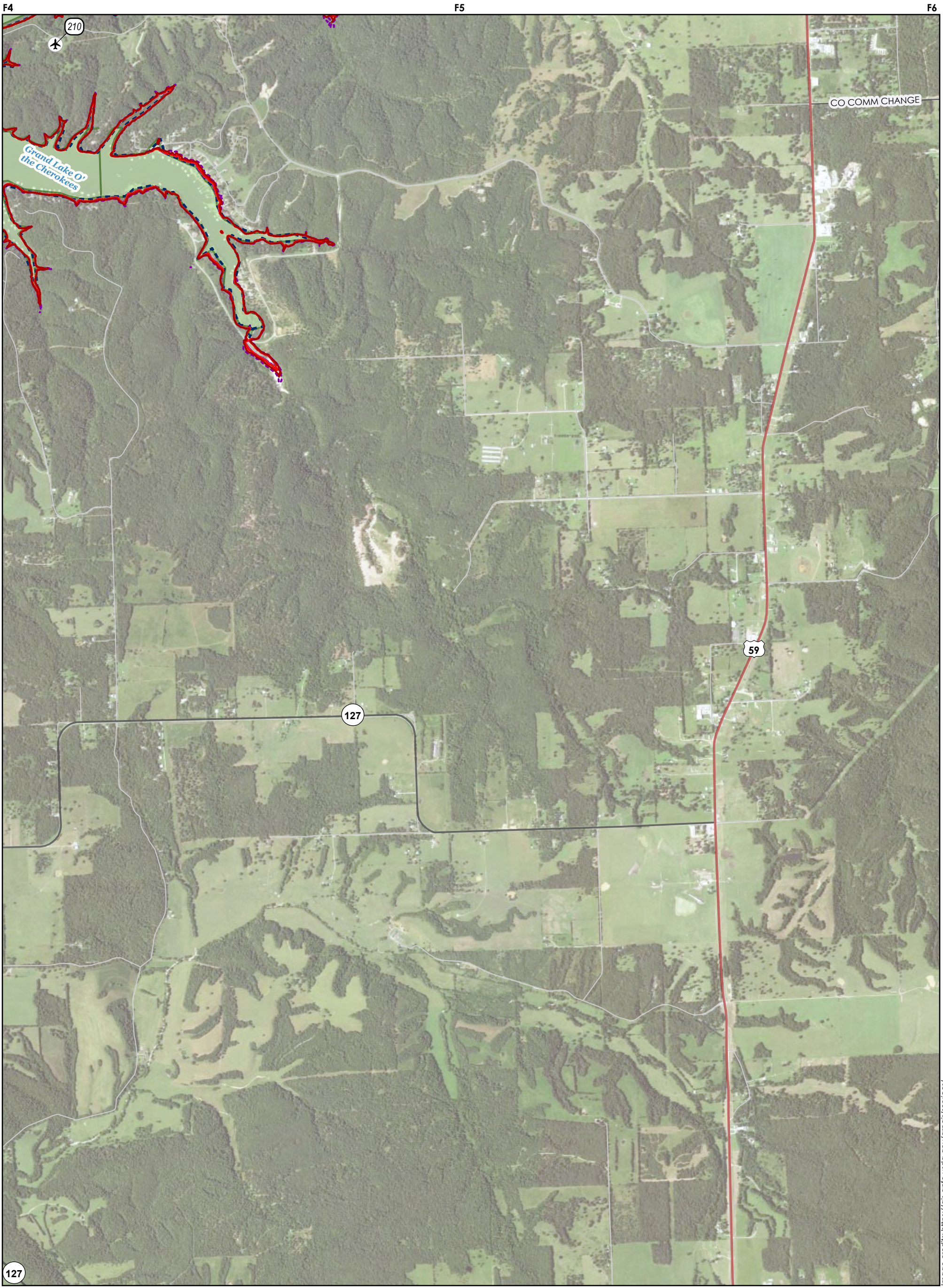
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

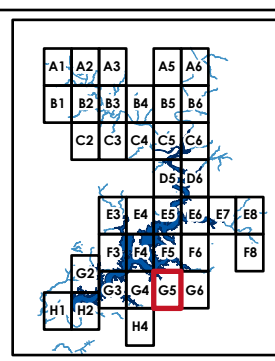


JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

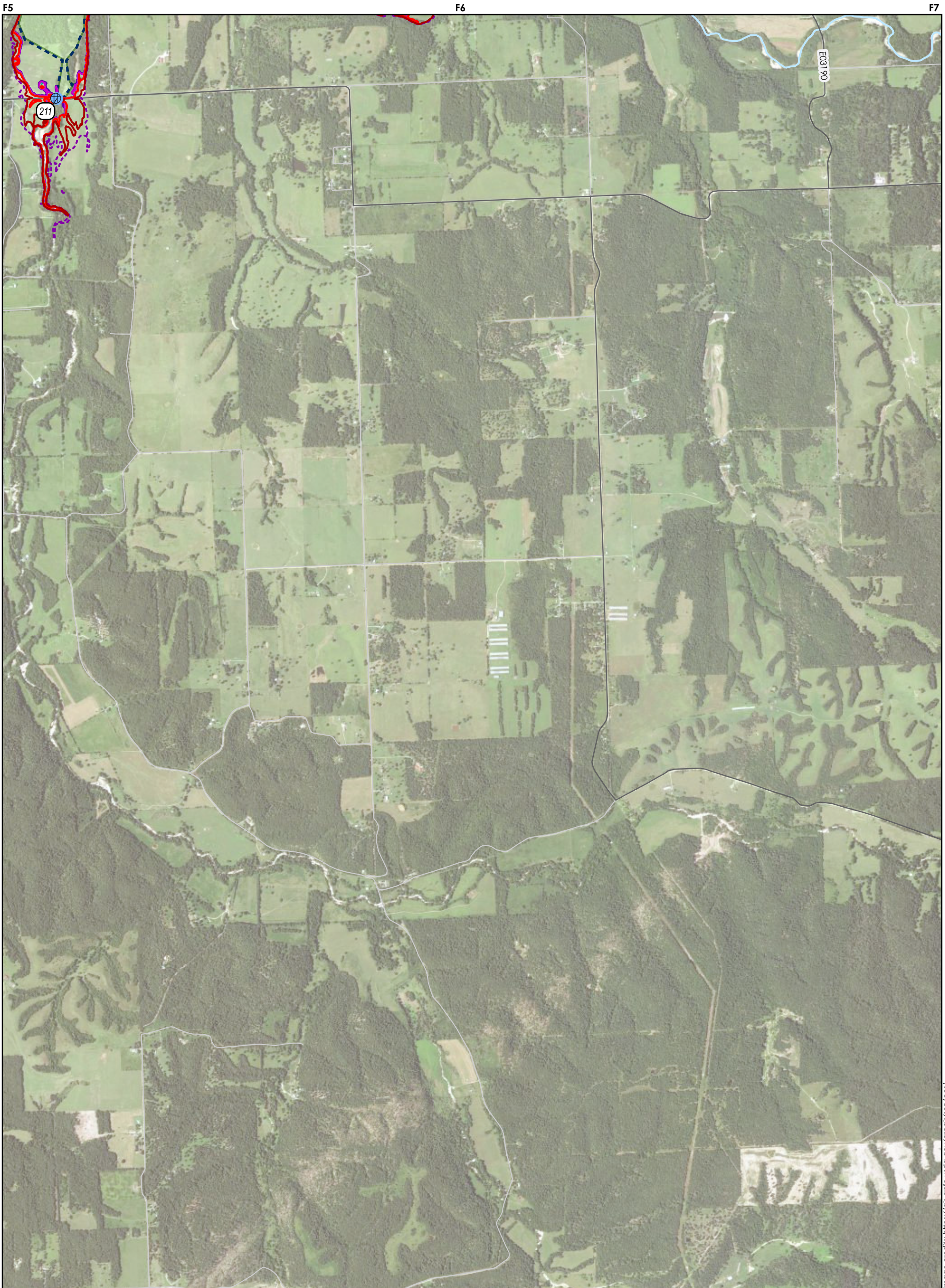
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

JULY 2007 MAX INUNDATION

 757.0 ft PD	 743.5 ft PD
 753.0 ft PD	 743.0 ft PD
 749.0 ft PD	 742.5 ft PD
 745.0 ft PD	 742.0 ft PD
 744.5 ft PD	 734.0 ft PD
 744.0 ft PD	

Legend

ROAD CLASS

 Interstate	 Railroad
 State Highway	 Stream
 US Highway	 Flowage Easements
 Major Collector	 Project Boundary
 Local Road	 GRDA Ownership

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: G6

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2014

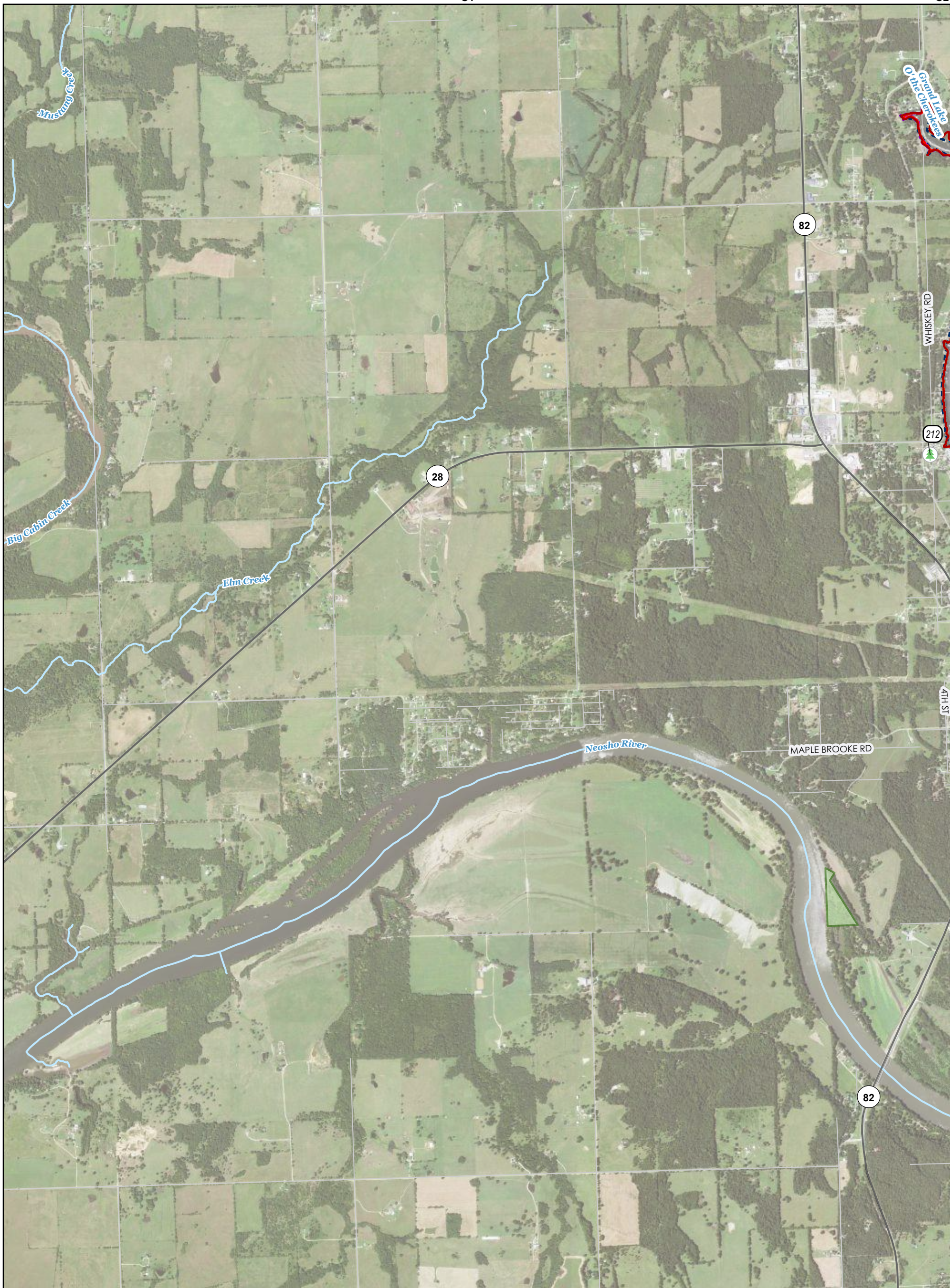
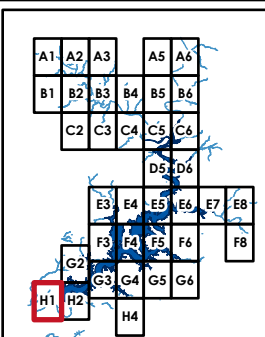


Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000
Feet
1 inch = 2,000 feet



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

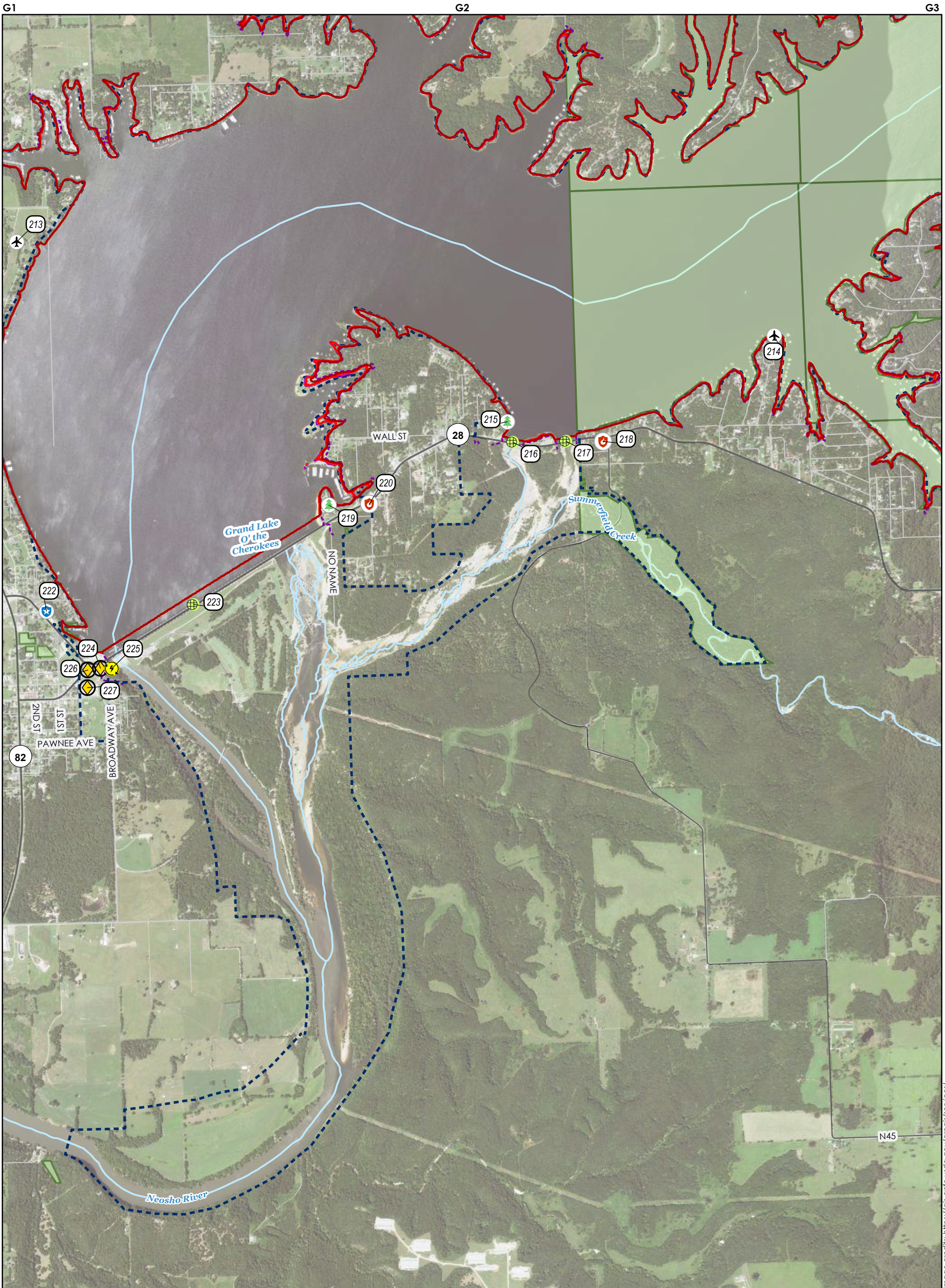
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

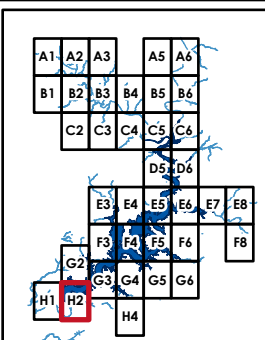
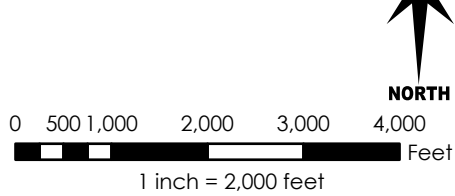
MAP: H1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



**JULY 2007
INUNDATION SCENARIO
(4-YEAR EVENT)**



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS		
Interstate	—	Railroad
State Highway	—	Stream
US Highway	—	Flowage Easements
Major Collector	—	Project Boundary
Local Road	—	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: H2

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

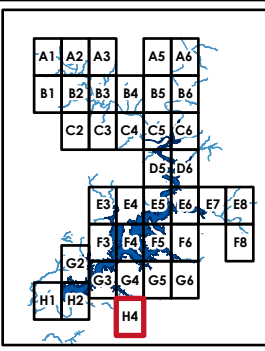
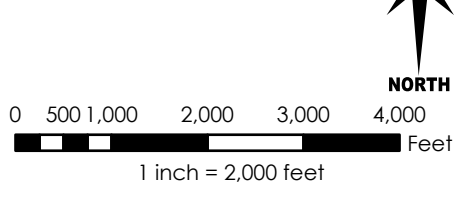
FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

JULY 2007 INUNDATION SCENARIO (4-YEAR EVENT)



JULY 2007 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

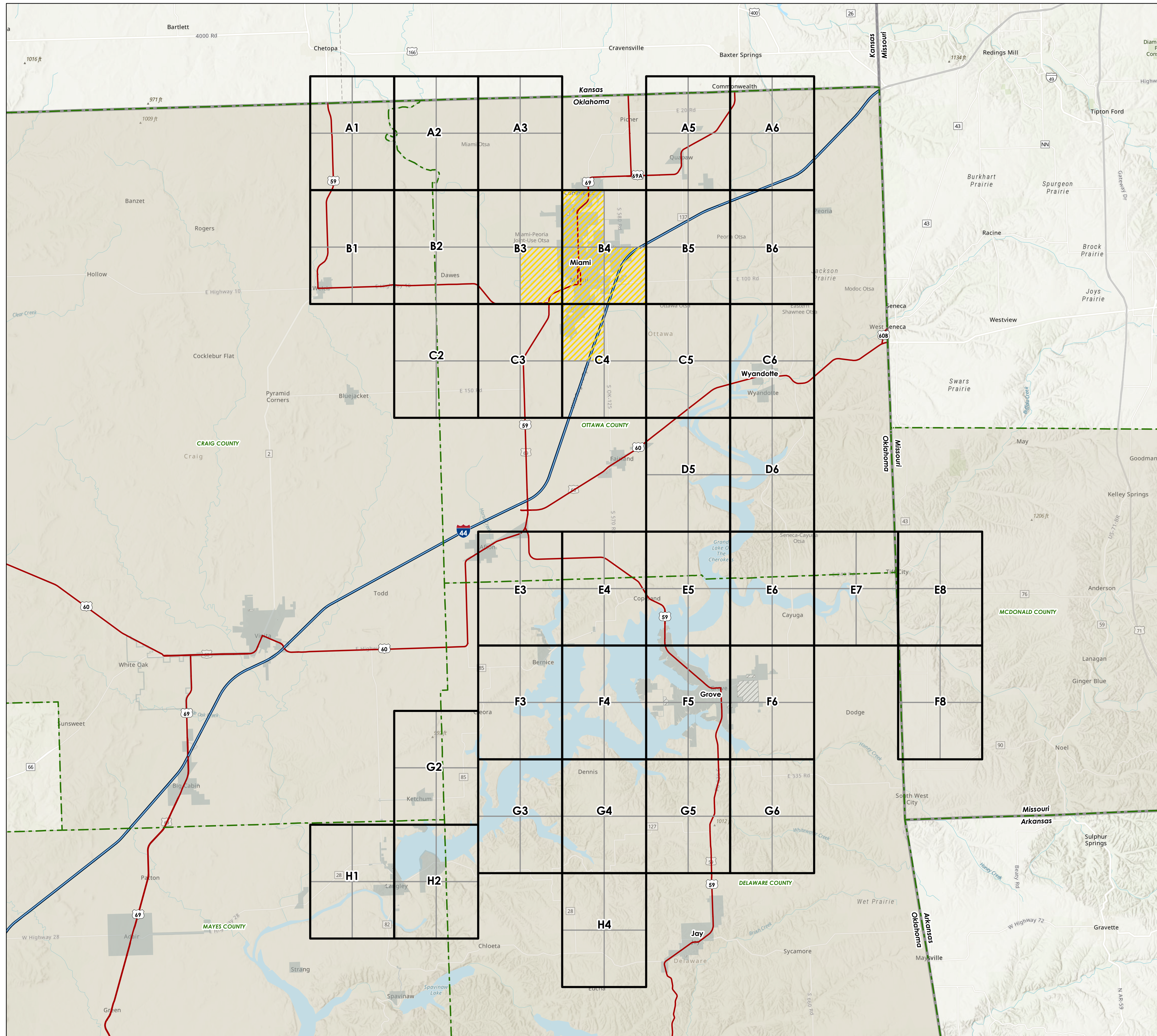
MAP: H4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Upstream Model Results and Critical Infrastructure Overview Map

Pensacola Dam
 GRAND RIVER DAM AUTHORITY
 September 2022



Overview Map Legend

- | | | | | | |
|--|-----------------------------|--|-----------------|--|------------|
| | 1:24,000-scale Map Sheet | | County Boundary | | Road Class |
| | 1:12,000-scale Detail Sheet | | Municipality | | Interstate |
| | State Boundary | | Unincorporated | | US Highway |

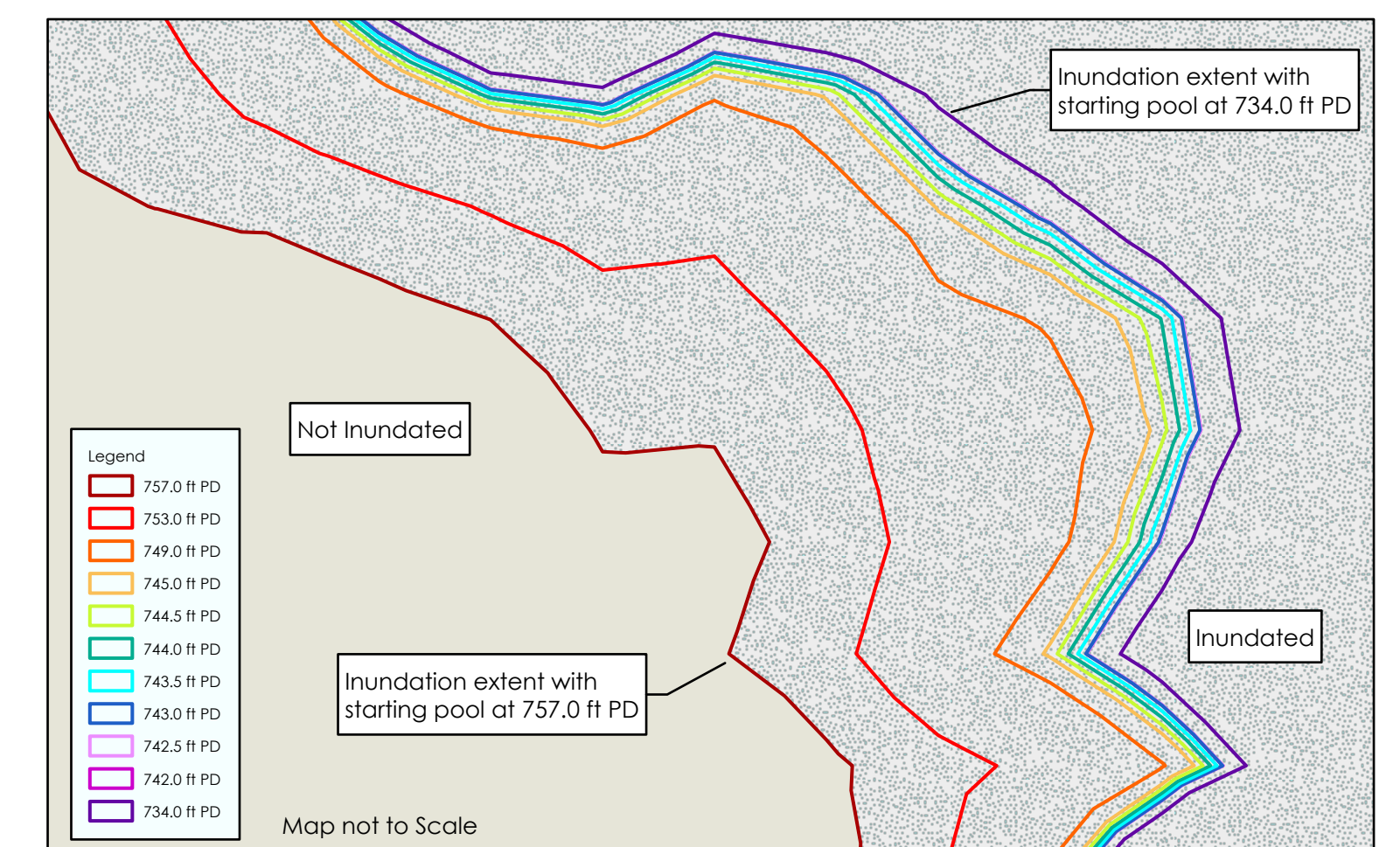
Critical Infrastructure Legend *

- | | | | | | | | |
|--|-----------------|--|-----------------|--|---------------------|--|----------------------|
| | Airport | | Hospital | | School | | Wastewater Treatment |
| | Bridge, Off-sys | | Fire Station | | Shelter - Both | | Water Treatment |
| | Bridge, On-sys | | Law Enforcement | | Shelter - Evac Only | | |
| | Bridge, RR | | Church | | Power Plant | | |
| | Cell Tower | | Park | | Substation | | |

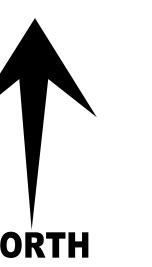
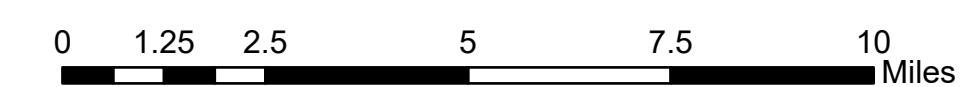
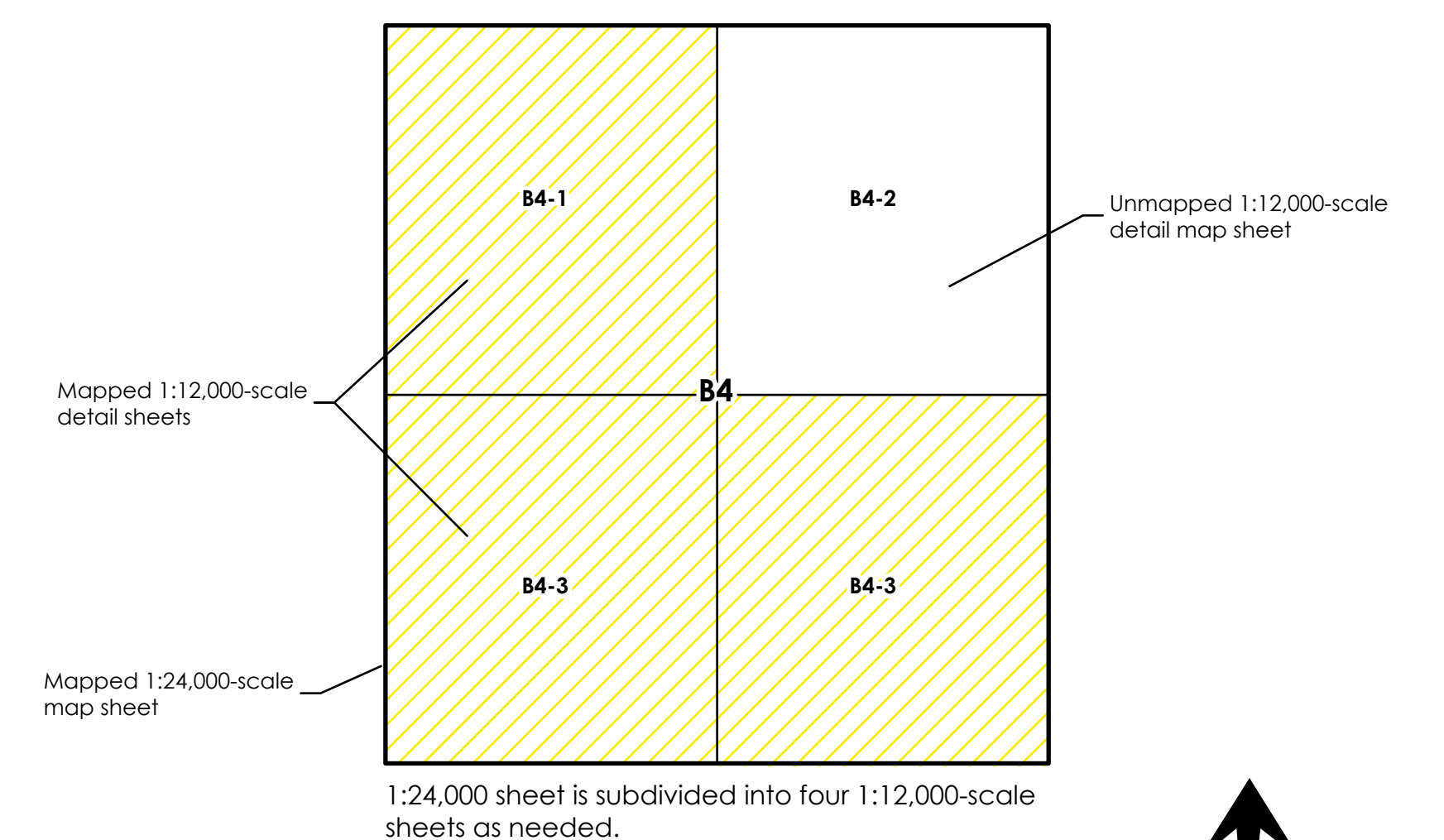
* Due to space constraints on the individual map sheets, the Critical Infrastructure symbols are provided here. Refer to this Overview Map when using the individual map sheets.

Inundation Scenario Mapping

Mapping shows the extent of inundation for the selected hydraulic event under different starting pool elevations: 734.0 ft PD, 742.0 ft PD, 742.5 ft PD, 743.0 ft PD, 743.5 ft PD, 744.0 ft PD, 744.5 ft PD, 745.0 ft PD, 749.0 ft PD, 753.0 ft PD, and 757.0 ft PD.



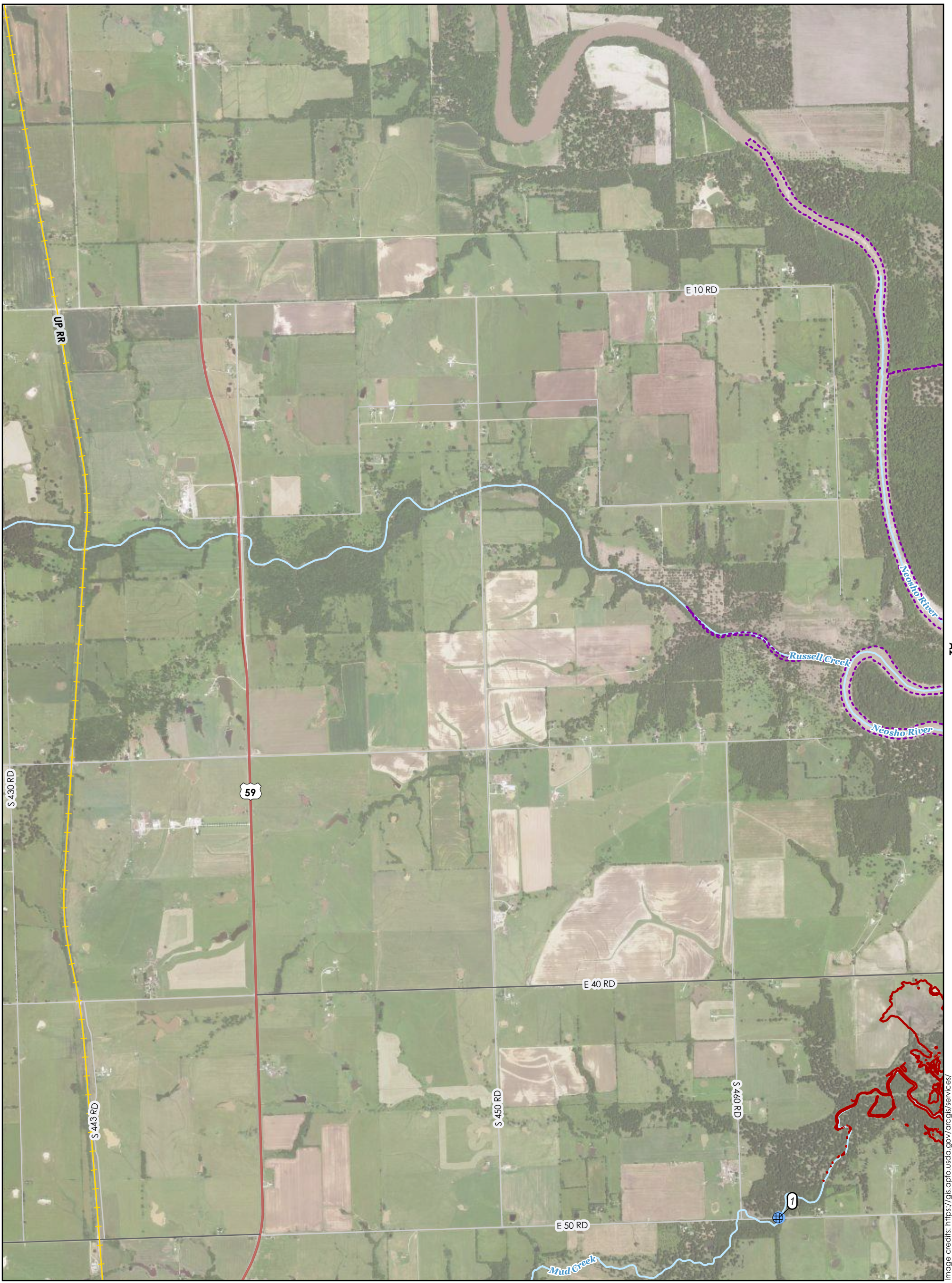
Map Sheet Organization



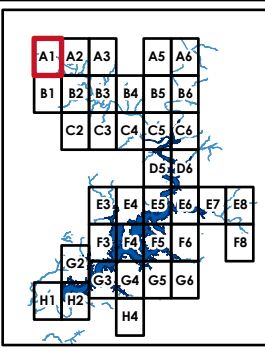
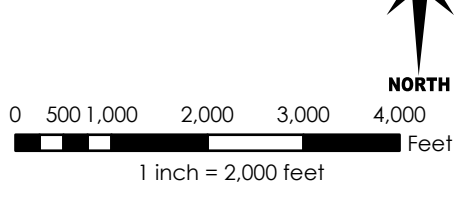
Map Notes

Data Sources for Maps:

1. Base map images from https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019
2. Transportation network (major roads, local roads, and railroads) and county boundaries obtained from the Oklahoma Office of Geographic Information (<http://okmaps.org/cgi/search.aspx>).
3. Parcels owned by GRDA are from GIS parcel data provided by County Assessor's Offices (2020).
4. The displayed Flowage Easement is equal to the 760-foot NGVD29 elevation contour, extracted from 2011 Dewberry LIDAR.



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

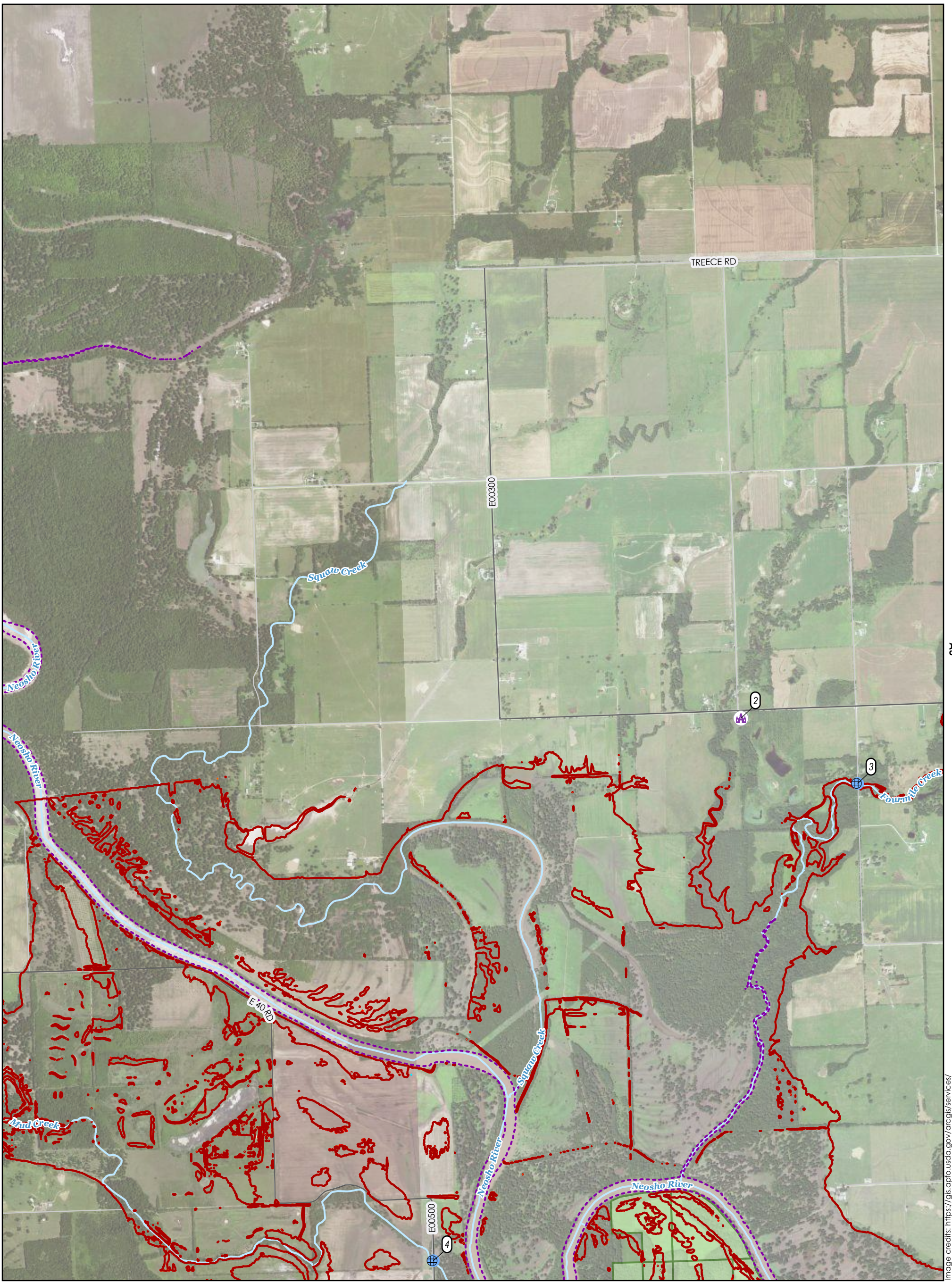
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: A1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

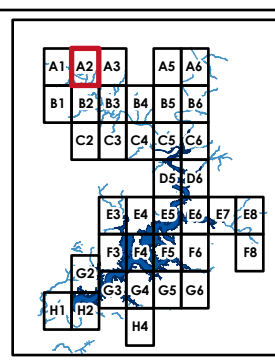


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

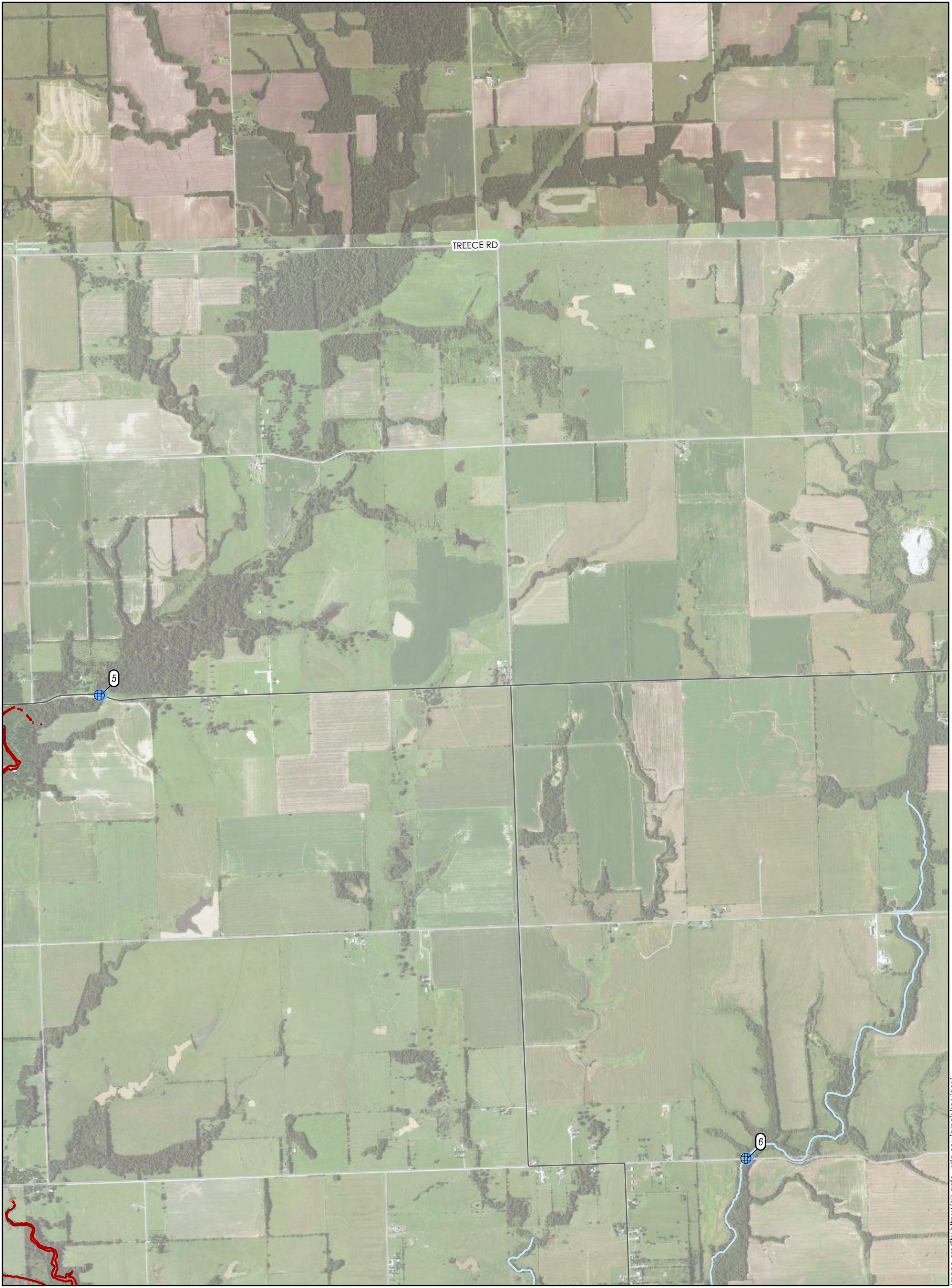
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: A2

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



A2

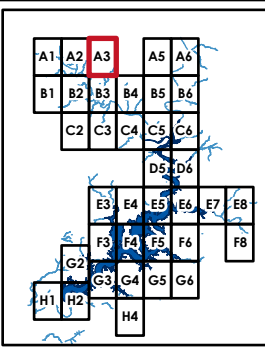
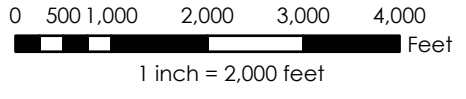
A4

B2

B3

B4

OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)



OCT 2009 MAX INUNDATION

█ 757.0 ft PD	█ 743.5 ft PD
█ 753.0 ft PD	█ 743.0 ft PD
█ 749.0 ft PD	█ 742.5 ft PD
█ 745.0 ft PD	█ 742.0 ft PD
█ 744.5 ft PD	█ 734.0 ft PD
█ 744.0 ft PD	

Legend

ROAD CLASS

— Interstate
— State Highway
— US Highway
— Major Collector
— Local Road

— Railroad	— Stream
- - - Flowage Easements	█ Project Boundary
█ GRDA Ownership	

MAP AND LEGEND NOTES

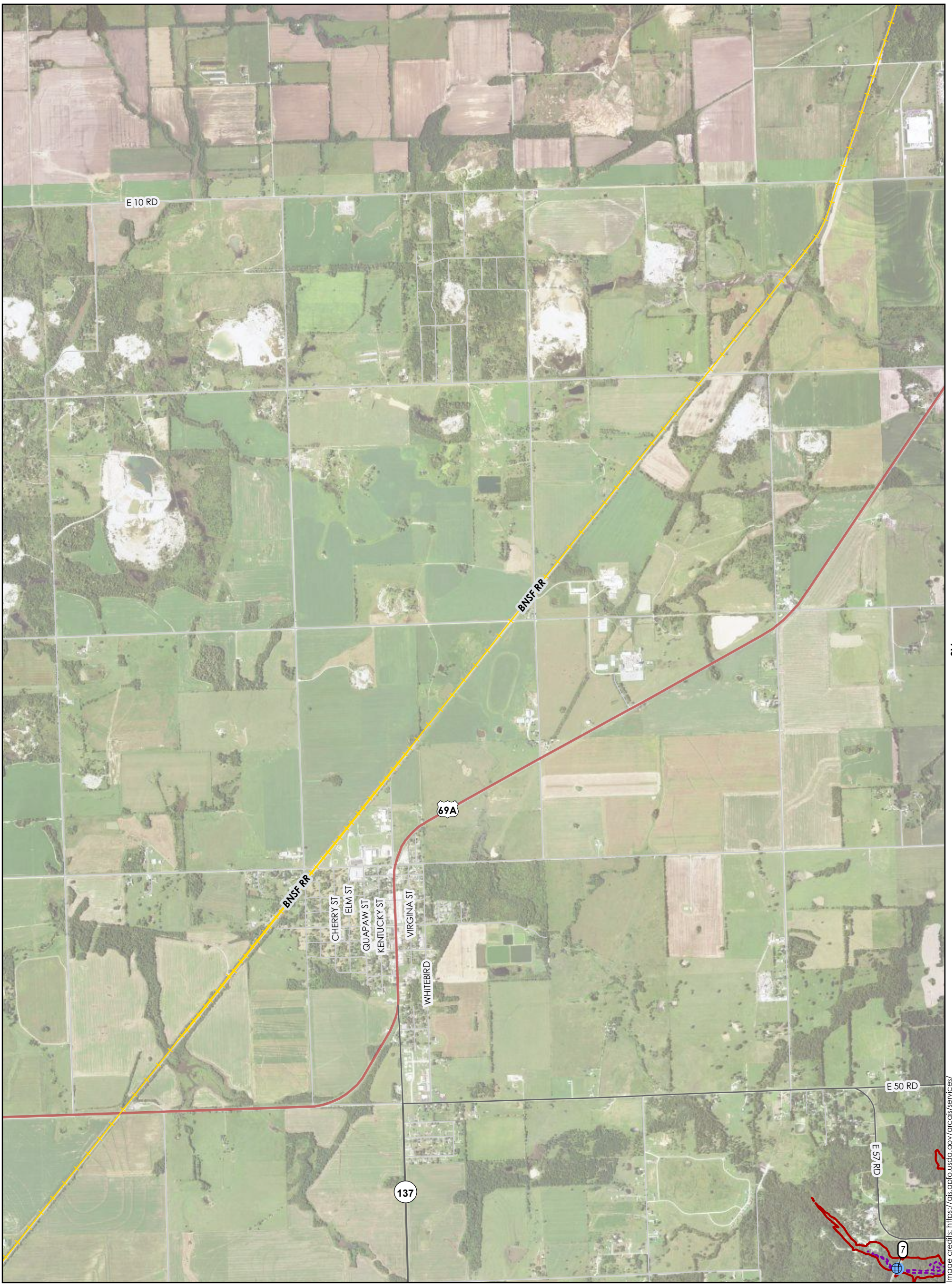
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

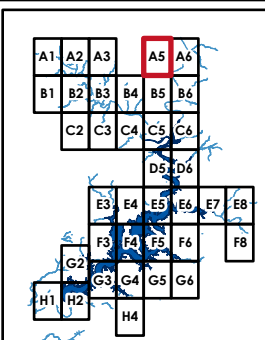
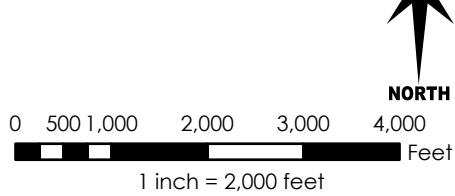
MAP: A3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream

- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM GRAND RIVER DAM AUTHORITY

MAP: A5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

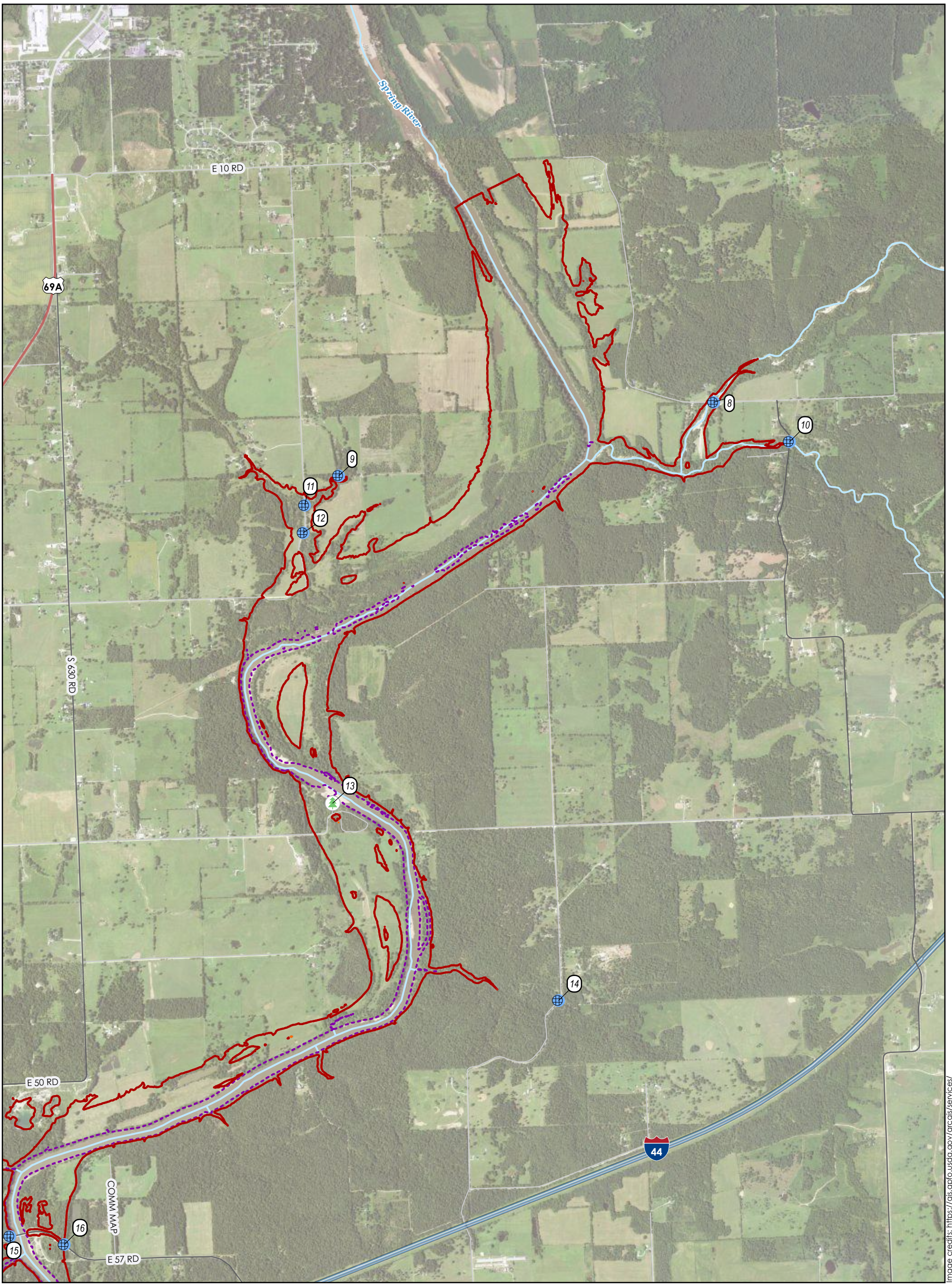
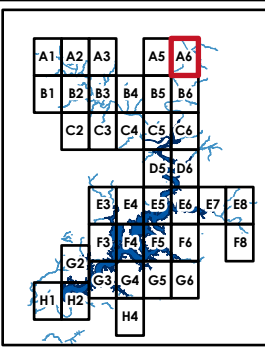
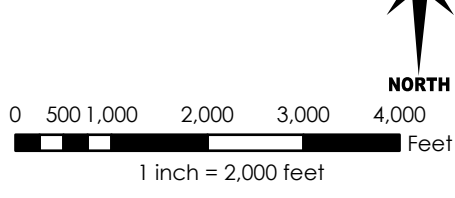


Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)



OCT 2009 MAX INUNDATION	
█ 757.0 ft PD	█ 743.5 ft PD
█ 753.0 ft PD	█ 743.0 ft PD
█ 749.0 ft PD	█ 742.5 ft PD
█ 745.0 ft PD	█ 742.0 ft PD
█ 744.5 ft PD	█ 734.0 ft PD
█ 744.0 ft PD	

Legend

ROAD CLASS	
— Interstate	— Railroad
— State Highway	— Stream
— US Highway	- - - Flowage Easements
— Major Collector	■ Project Boundary
— Local Road	■ GRDA Ownership

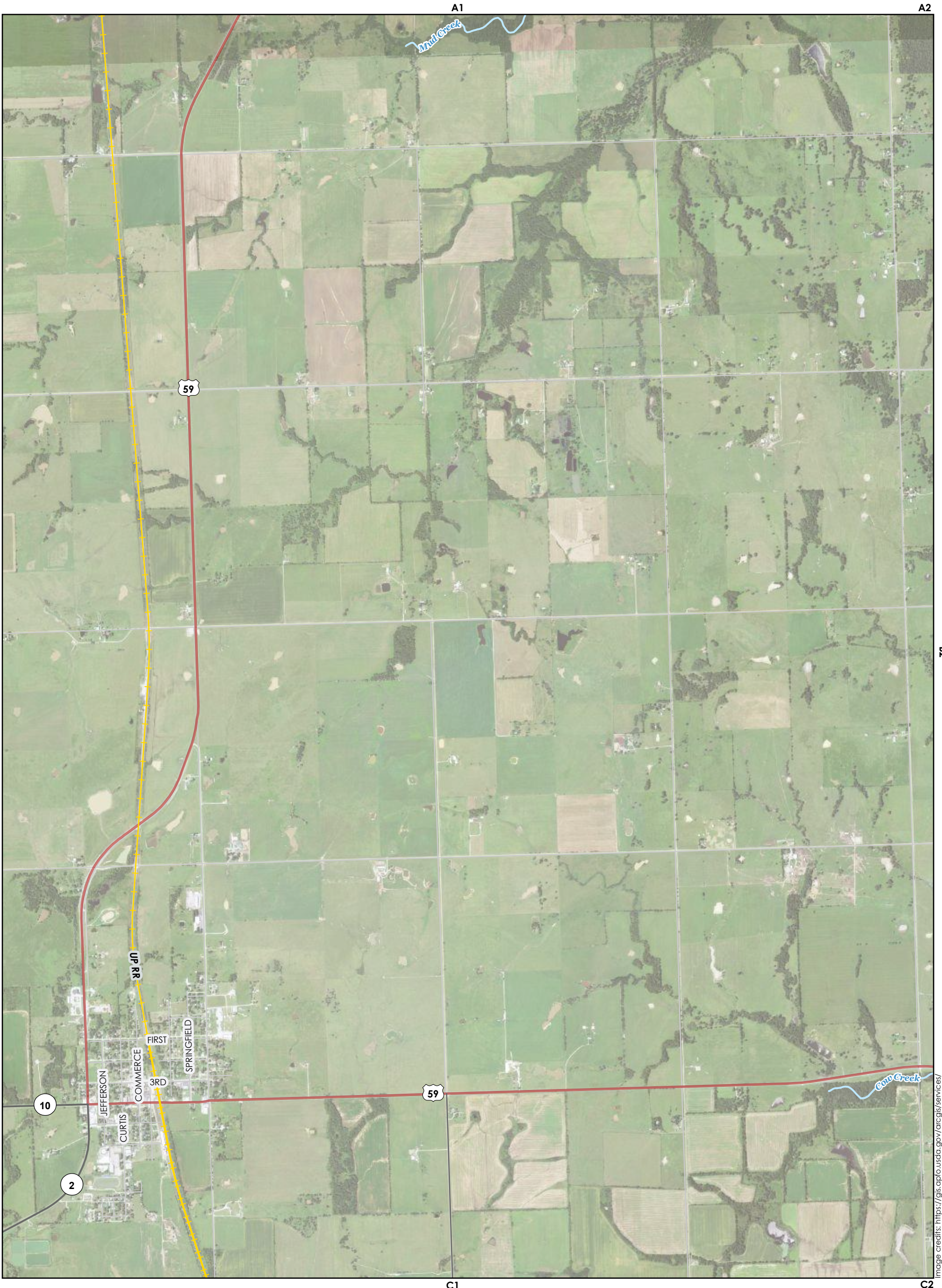
MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

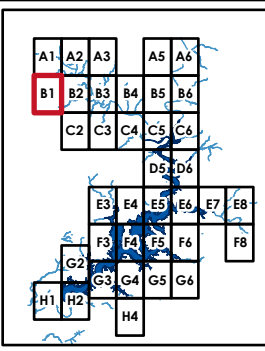
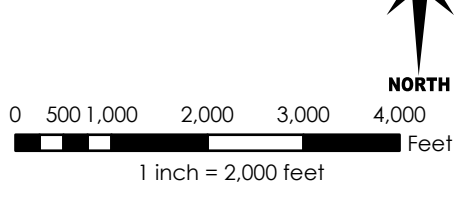
PENSACOLA DAM GRAND RIVER DAM AUTHORITY

MAP: A6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
 September 2022



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

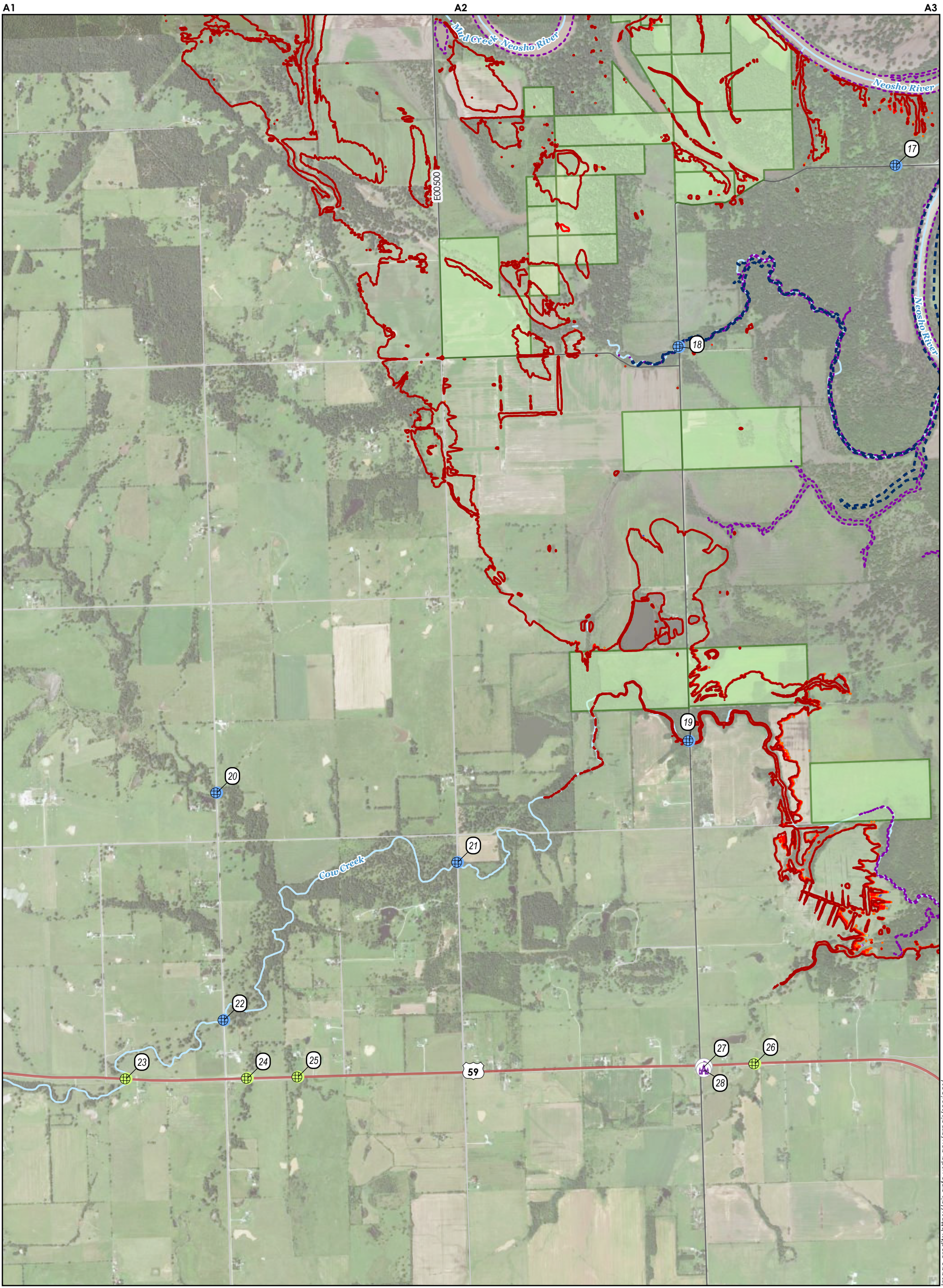
**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: B1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH
↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet

OCT 2009 MAX INUNDATION		ROAD CLASS		Legend	
█ 757.0 ft PD	█ 743.5 ft PD	— Interstate	— Stream	— Railroad	— Flowage Easements
█ 753.0 ft PD	█ 743.0 ft PD	— State Highway	— US Highway	█ Project Boundary	█ GRDA Ownership
█ 749.0 ft PD	█ 742.5 ft PD	— Major Collector	— Local Road		
█ 745.0 ft PD	█ 742.0 ft PD				
█ 744.5 ft PD	█ 734.0 ft PD				
█ 744.0 ft PD					

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM

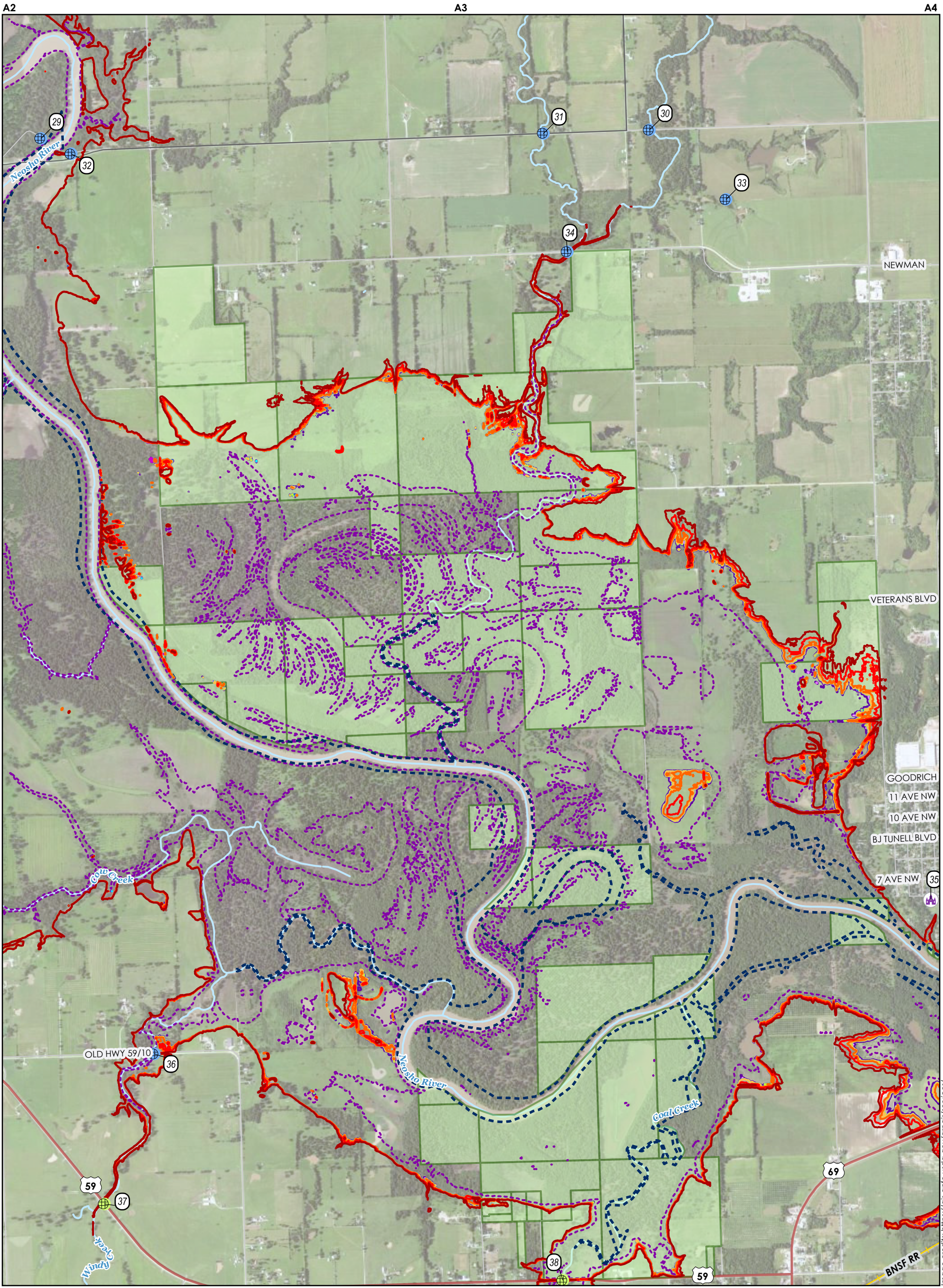
GRAND RIVER DAM AUTHORITY

MAP: B2

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

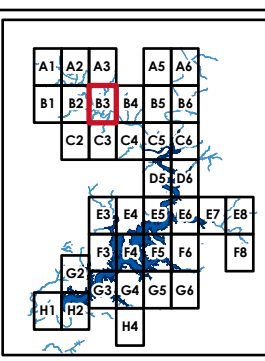


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION	
757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend	
ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

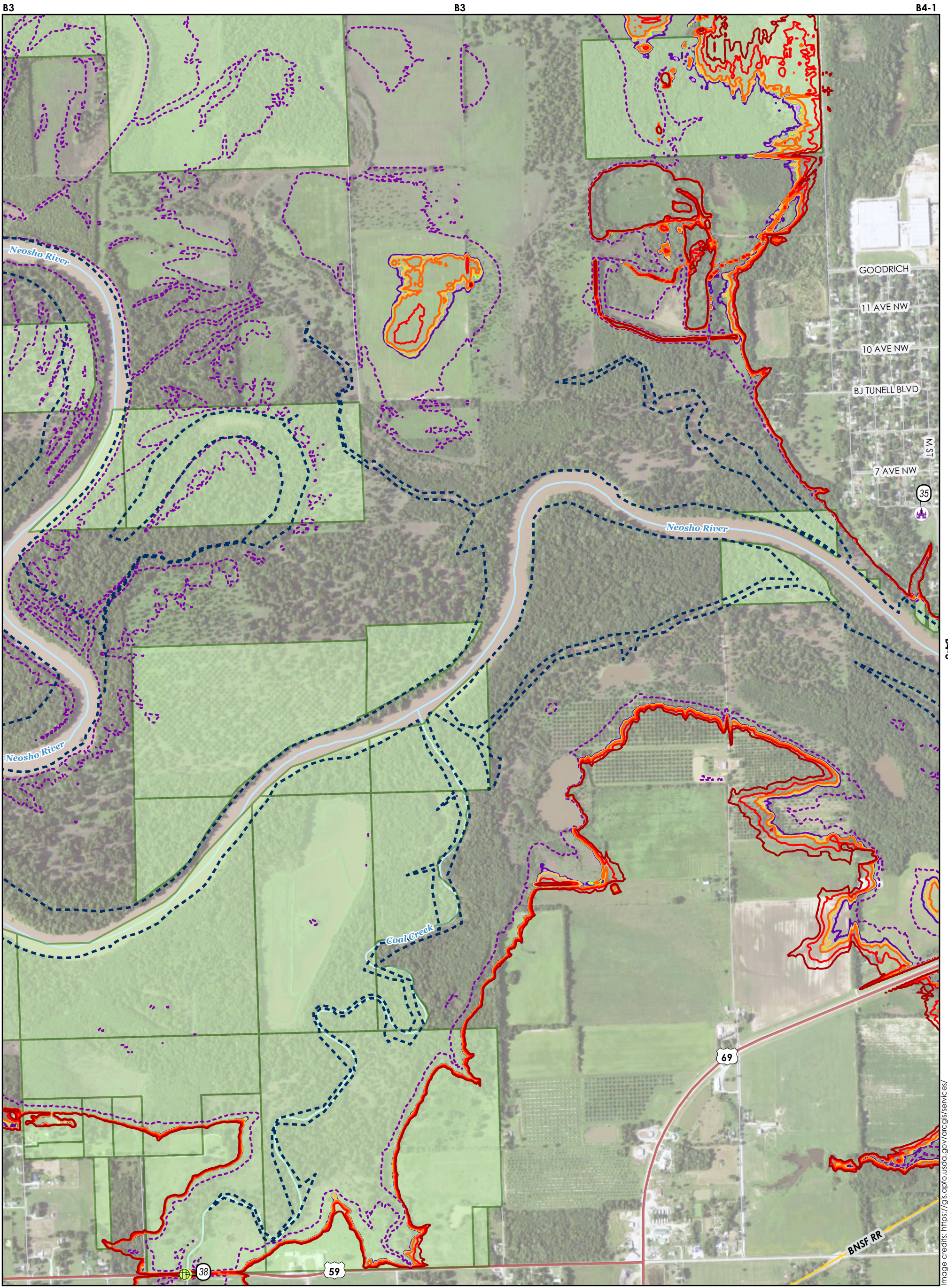
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B3

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

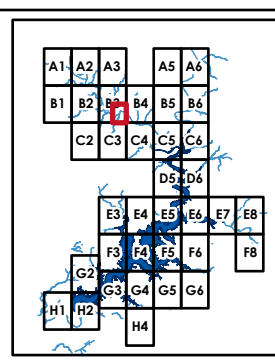


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 250 500 1,000 1,500 2,000
Feet

1 inch = 1,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

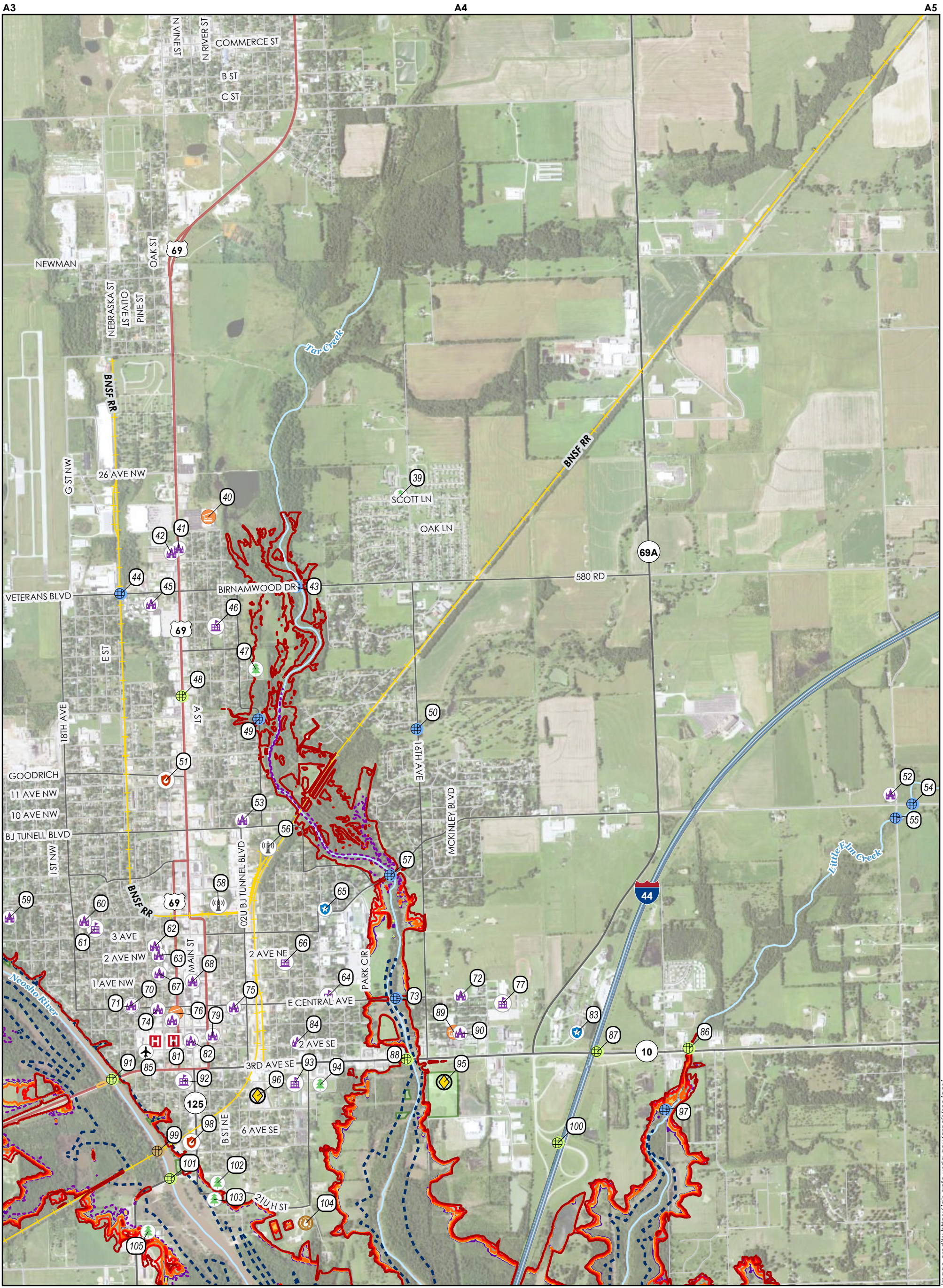
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B3-4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

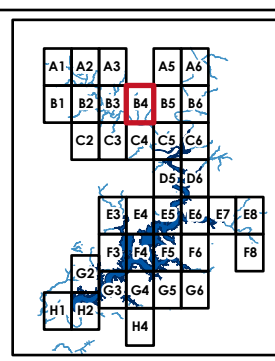


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

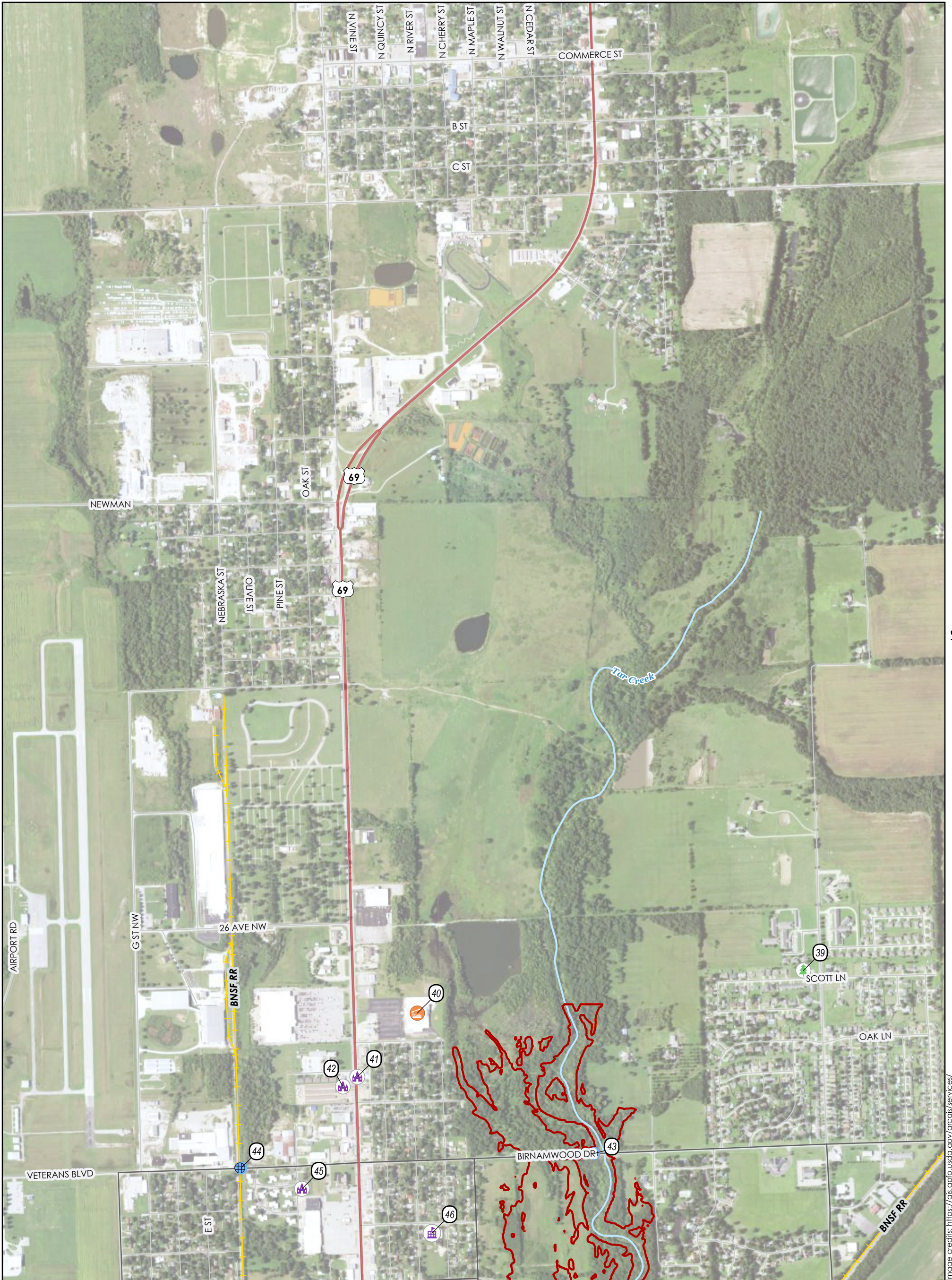
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

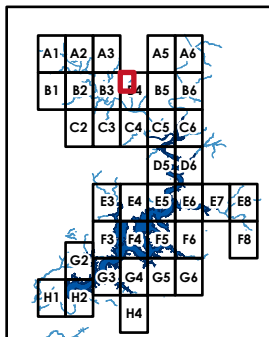
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



0 250 500 1,000 1,500 2,000 Feet
1 inch = 1,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

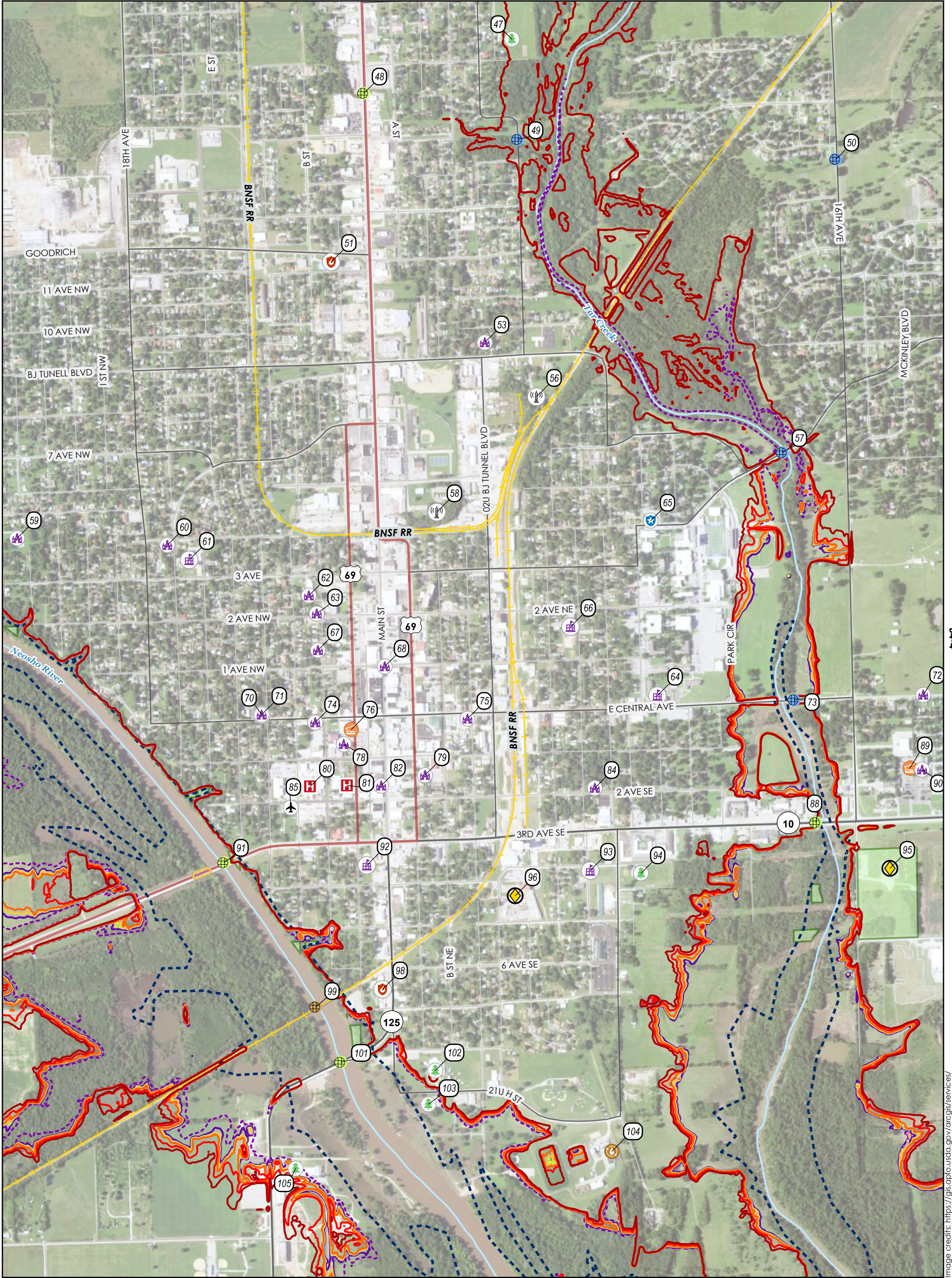
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B4-1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

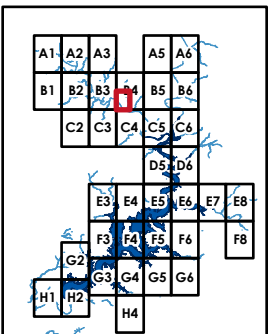
FERC No. 1494
September 2022



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



0 250 500 1,000 1,500 2,000 Feet
1 inch = 1,000 feet



OCT 2009 MAX INUNDATION

- 757.0 ft PD
- 753.0 ft PD
- 749.0 ft PD
- 745.0 ft PD
- 744.5 ft PD
- 744.0 ft PD
- 743.5 ft PD
- 743.0 ft PD
- 742.5 ft PD
- 742.0 ft PD
- 734.0 ft PD

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- - - Project Boundary
- - - GRDA Ownership

MAP AND LEGEND NOTES

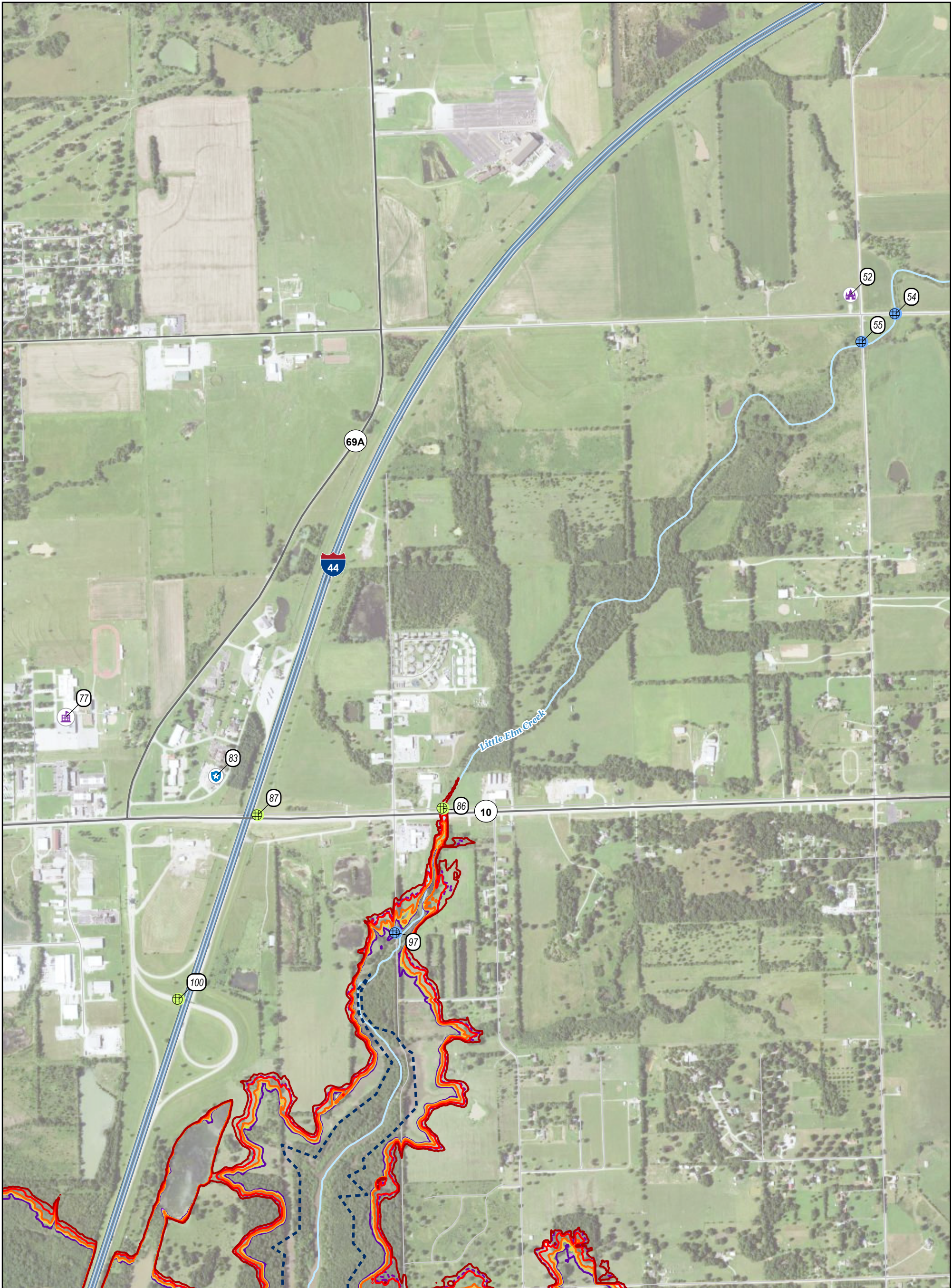
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

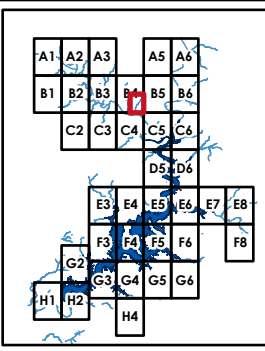
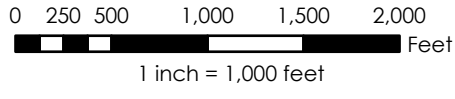
MAP: B4-3

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	State Highway	US Highway	Major Collector	Local Road
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Railroad	Stream	Flowage Easements	Project Boundary	GRDA Ownership
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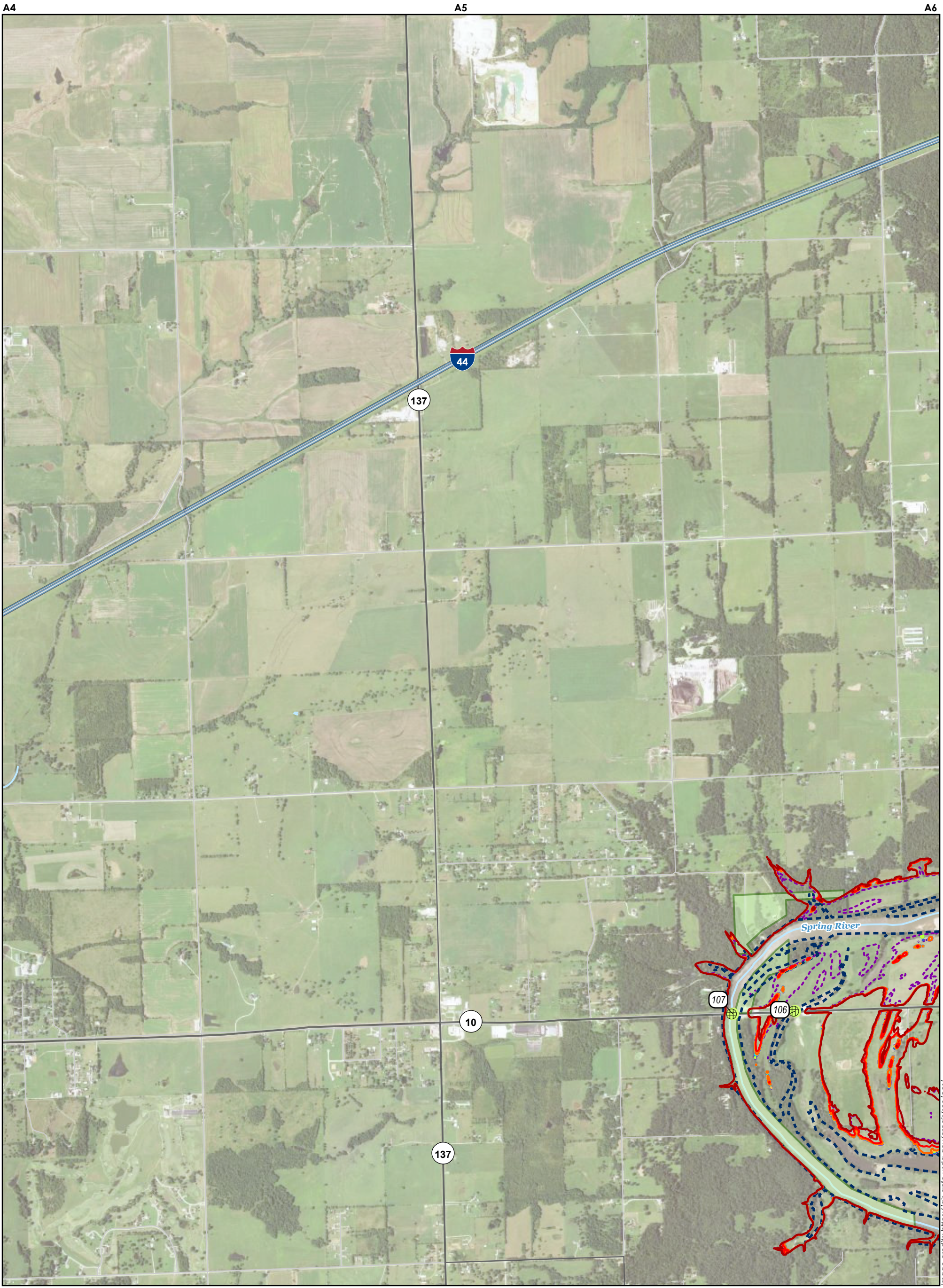
MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

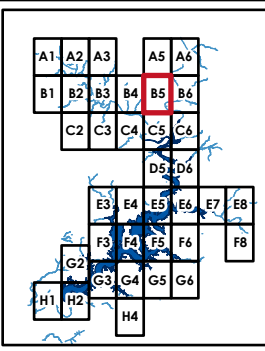
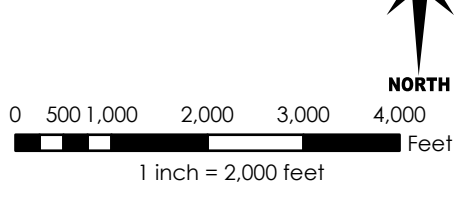
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B4-4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

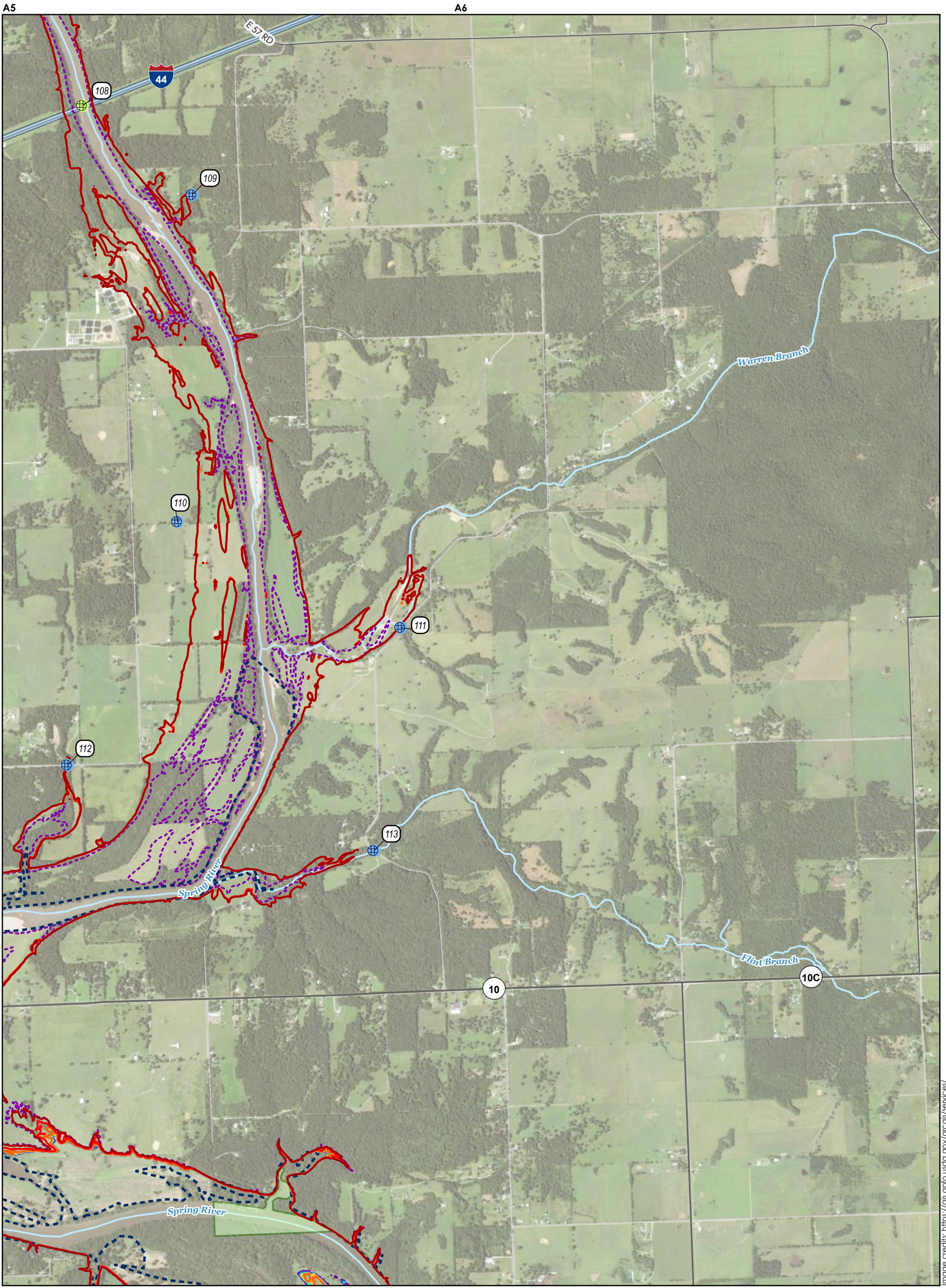


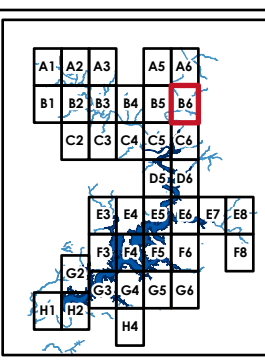
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS		
Interstate	State Highway	Railroad
US Highway	Major Collector	Stream
Local Road		Flowage Easements
		Project Boundary
		GRDA Ownership

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: B6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

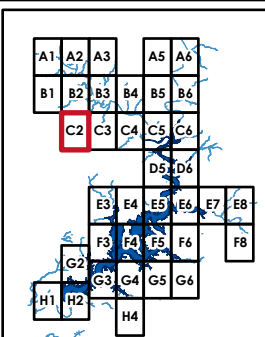
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000
Feet
1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

- 757.0 ft PD
- 753.0 ft PD
- 749.0 ft PD
- 745.0 ft PD
- 744.5 ft PD
- 744.0 ft PD
- 743.5 ft PD
- 743.0 ft PD
- 742.5 ft PD
- 742.0 ft PD
- 734.0 ft PD

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

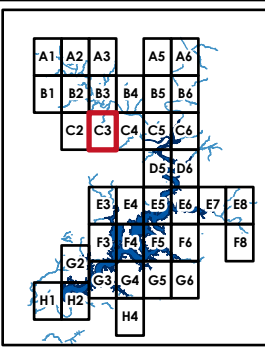
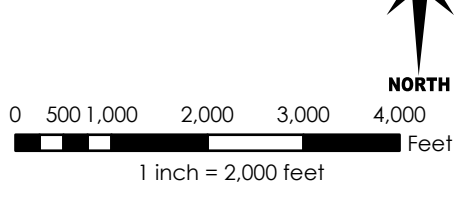
MAP: C2

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)



OCT 2009 MAX INUNDATION	
757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

ROAD CLASS	
Interstate	State Highway
US Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

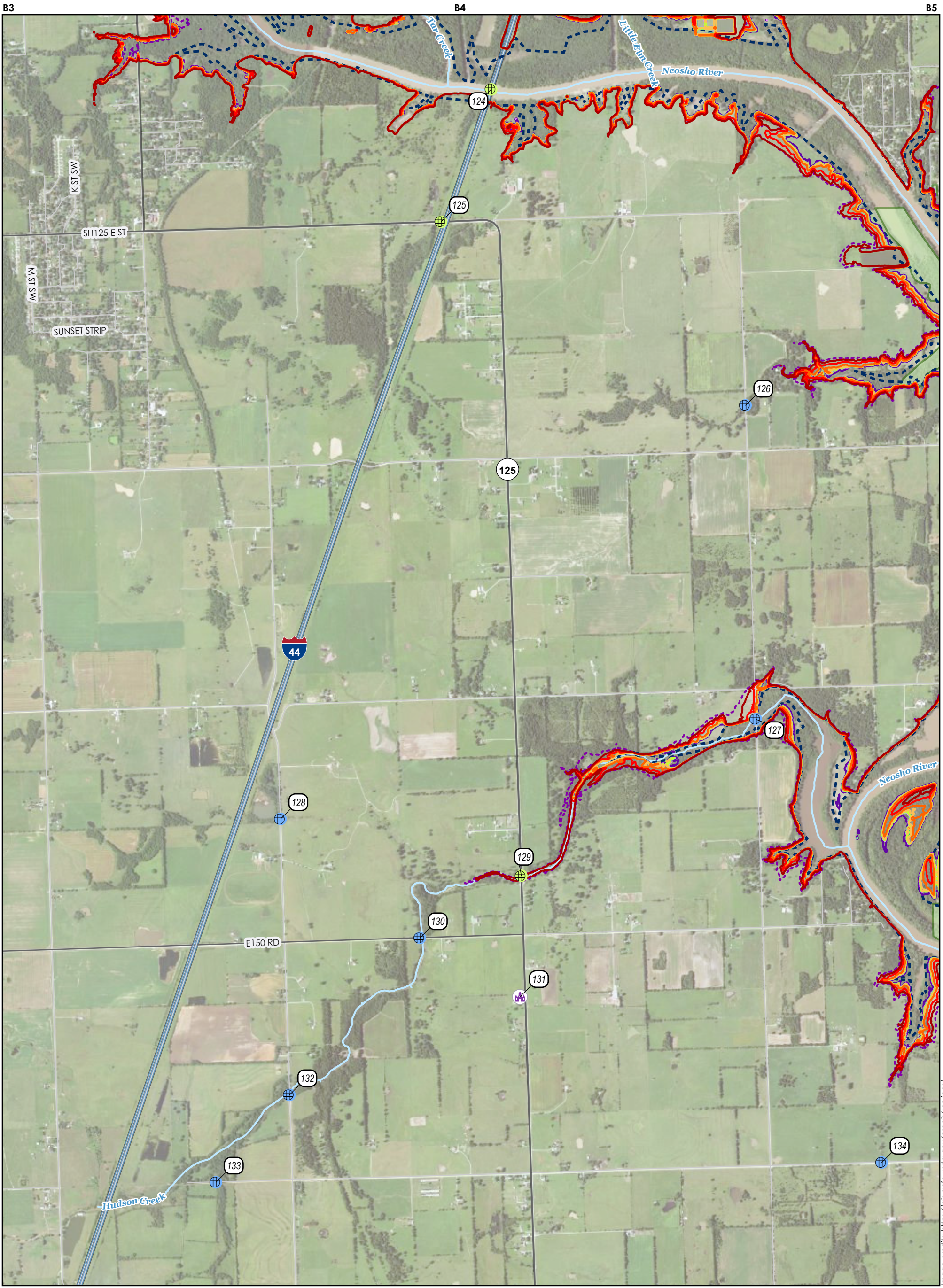
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C3

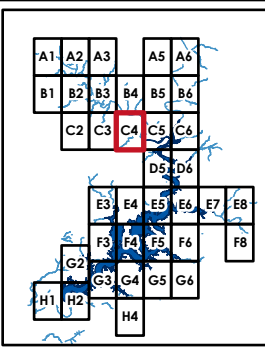
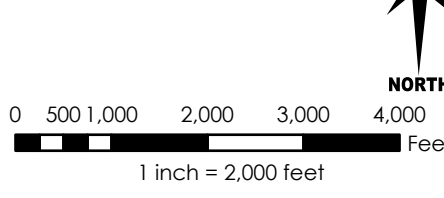
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)



OCT 2009 MAX INUNDATION	
757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	742.0 ft PD
744.0 ft PD	734.0 ft PD

ROAD CLASS	
Interstate	State Highway
US Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

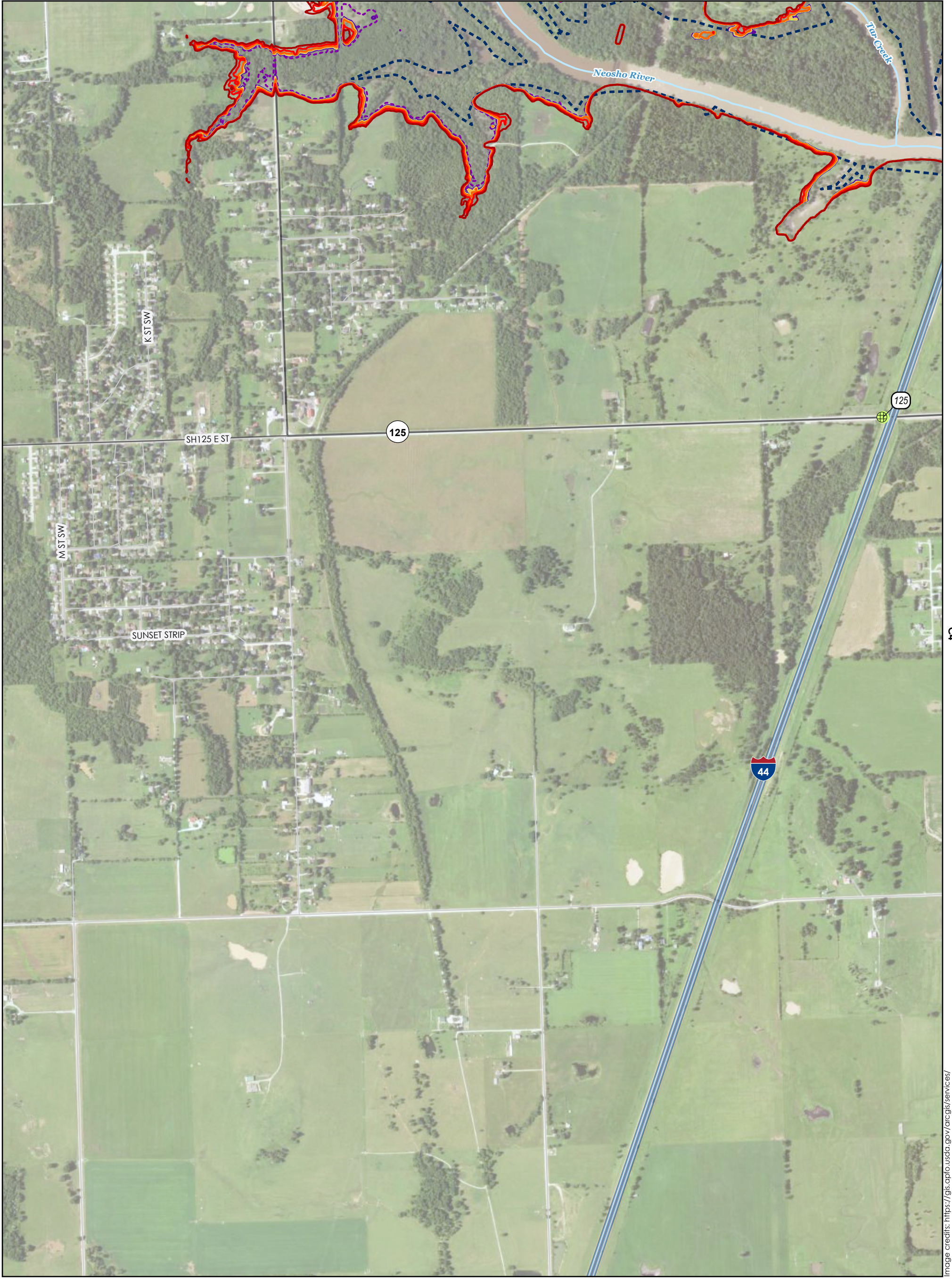
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
September 2022

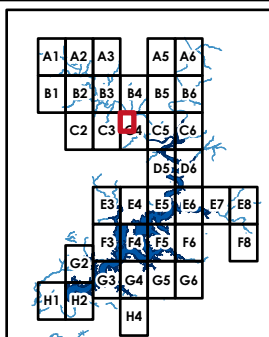
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



0 250 500 1,000 1,500 2,000
Feet
1 inch = 1,000 feet



OCT 2009 MAX INUNDATION

	757.0 ft PD		743.5 ft PD
	753.0 ft PD		743.0 ft PD
	749.0 ft PD		742.5 ft PD
	745.0 ft PD		742.0 ft PD
	744.5 ft PD		742.0 ft PD
	744.0 ft PD		734.0 ft PD

Legend

ROAD CLASS

	Interstate
	State Highway
	US Highway
	Major Collector
	Local Road

	Railroad
	Stream
	Flowage Easements
	Project Boundary
	GRDA Ownership

MAP AND LEGEND NOTES

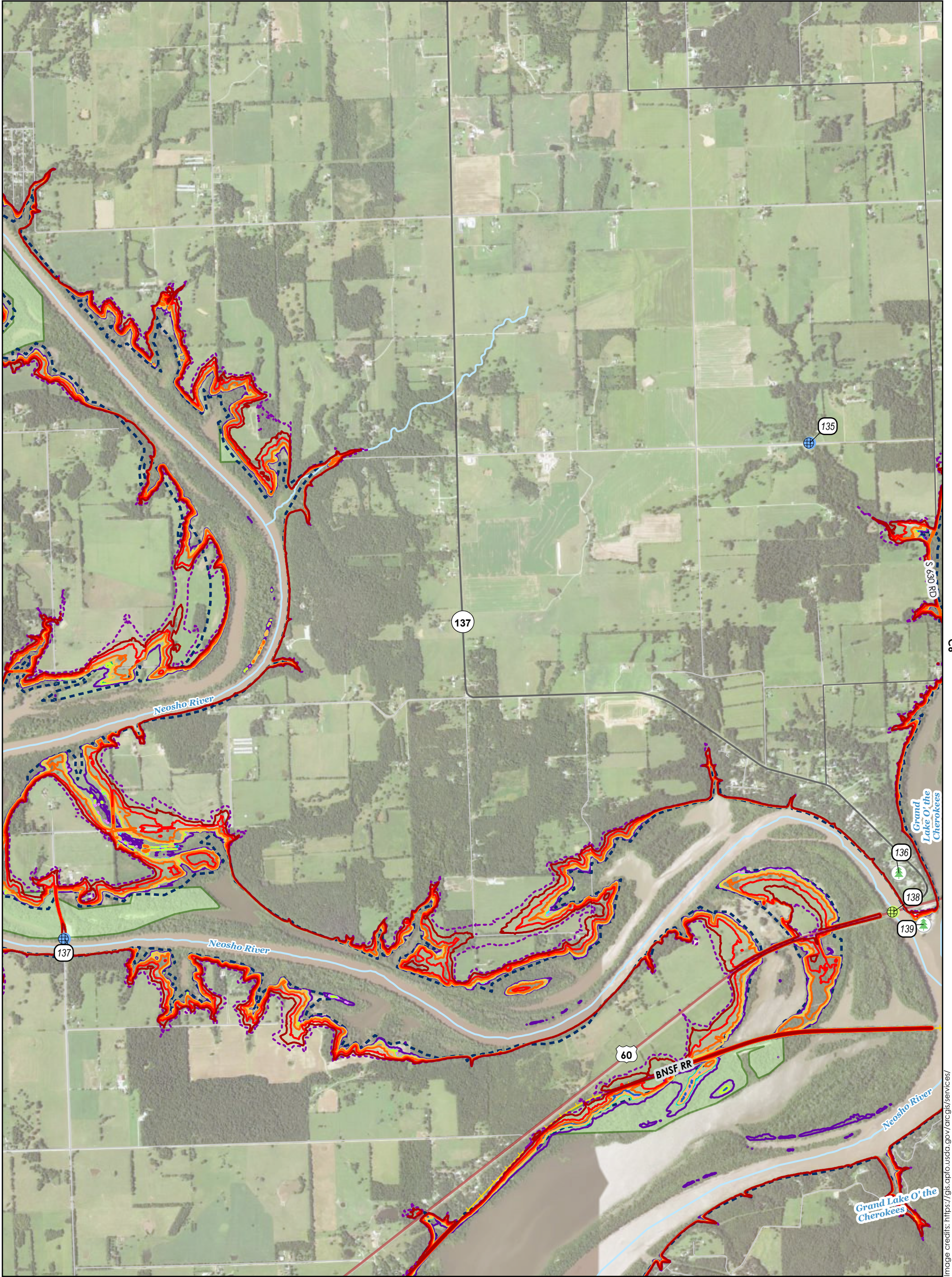
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C4-1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

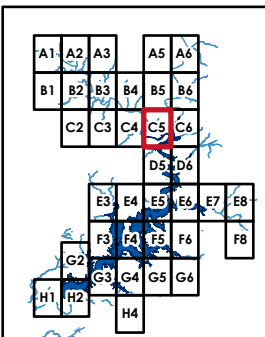
FERC No. 1494
September 2022



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000
Feet
1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP AND LEGEND NOTES

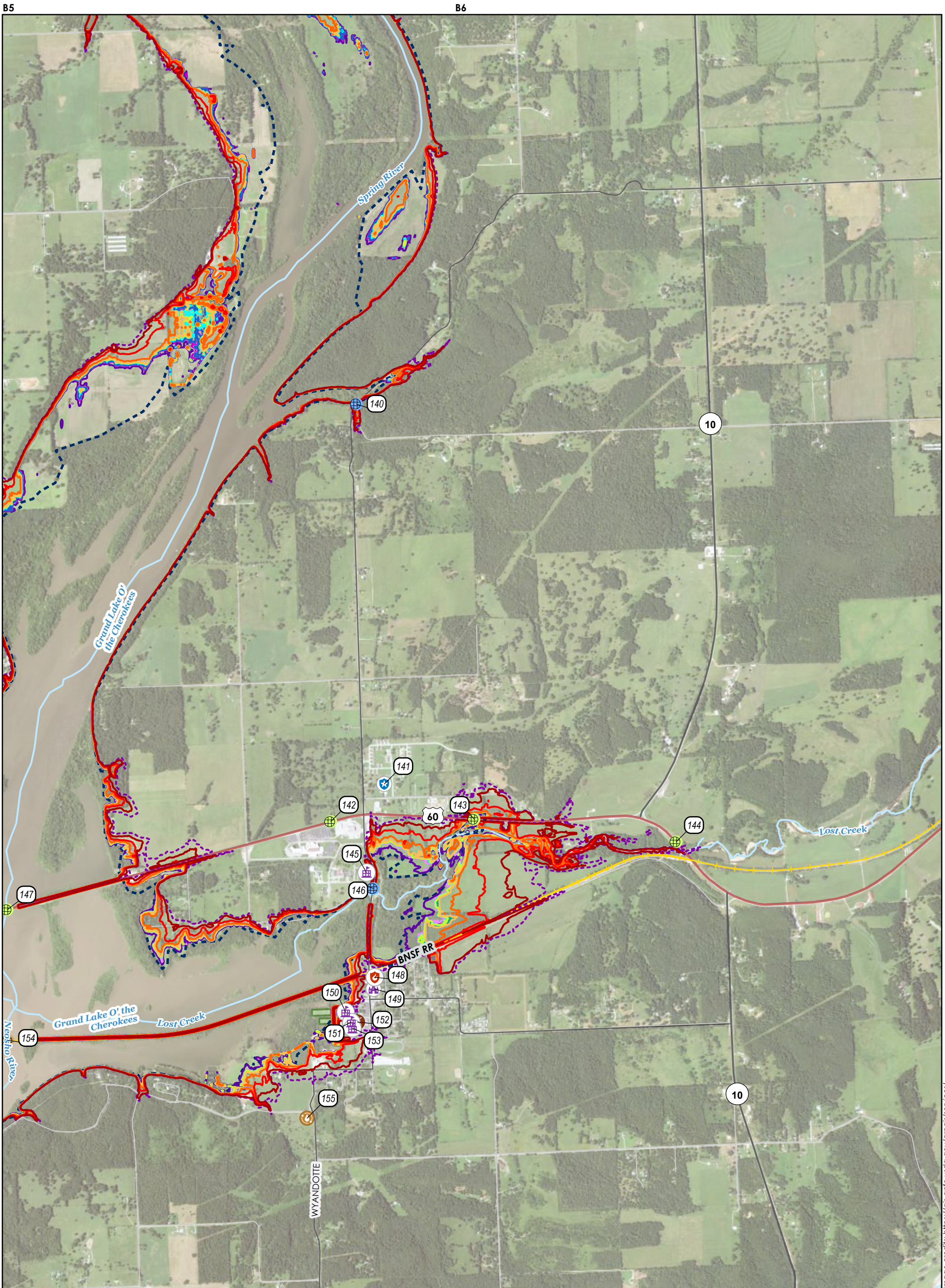
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

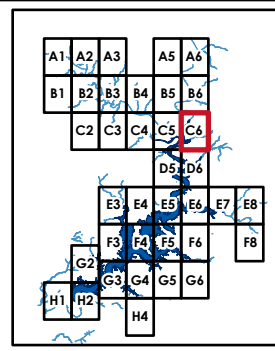


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

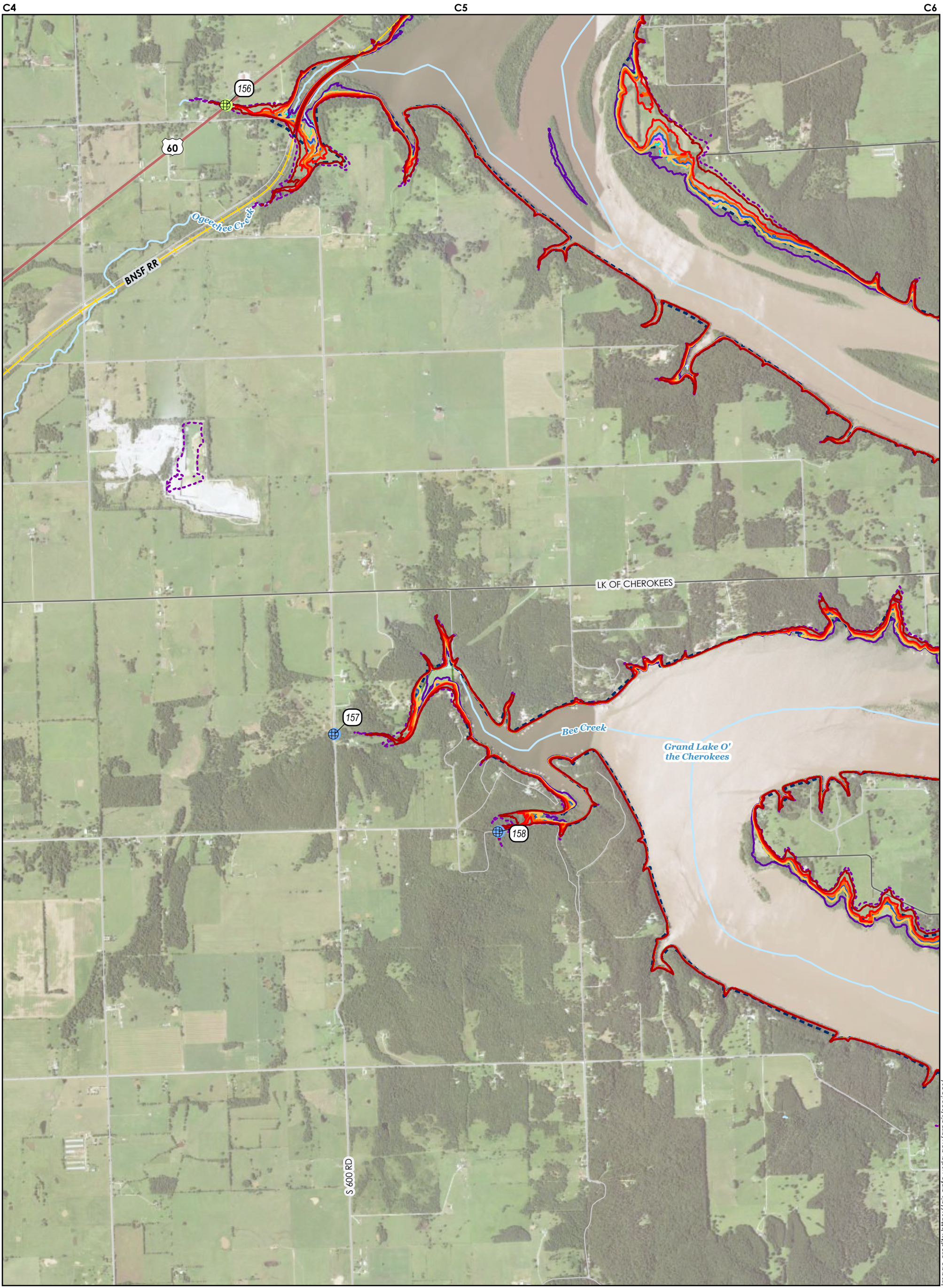
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: C6

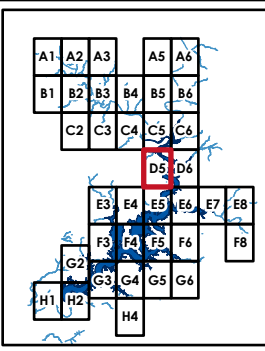
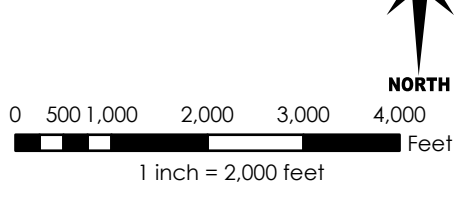
CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Stream
State Highway	Flowage Easements
US Highway	Project Boundary
Major Collector	GRDA Ownership
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: D5

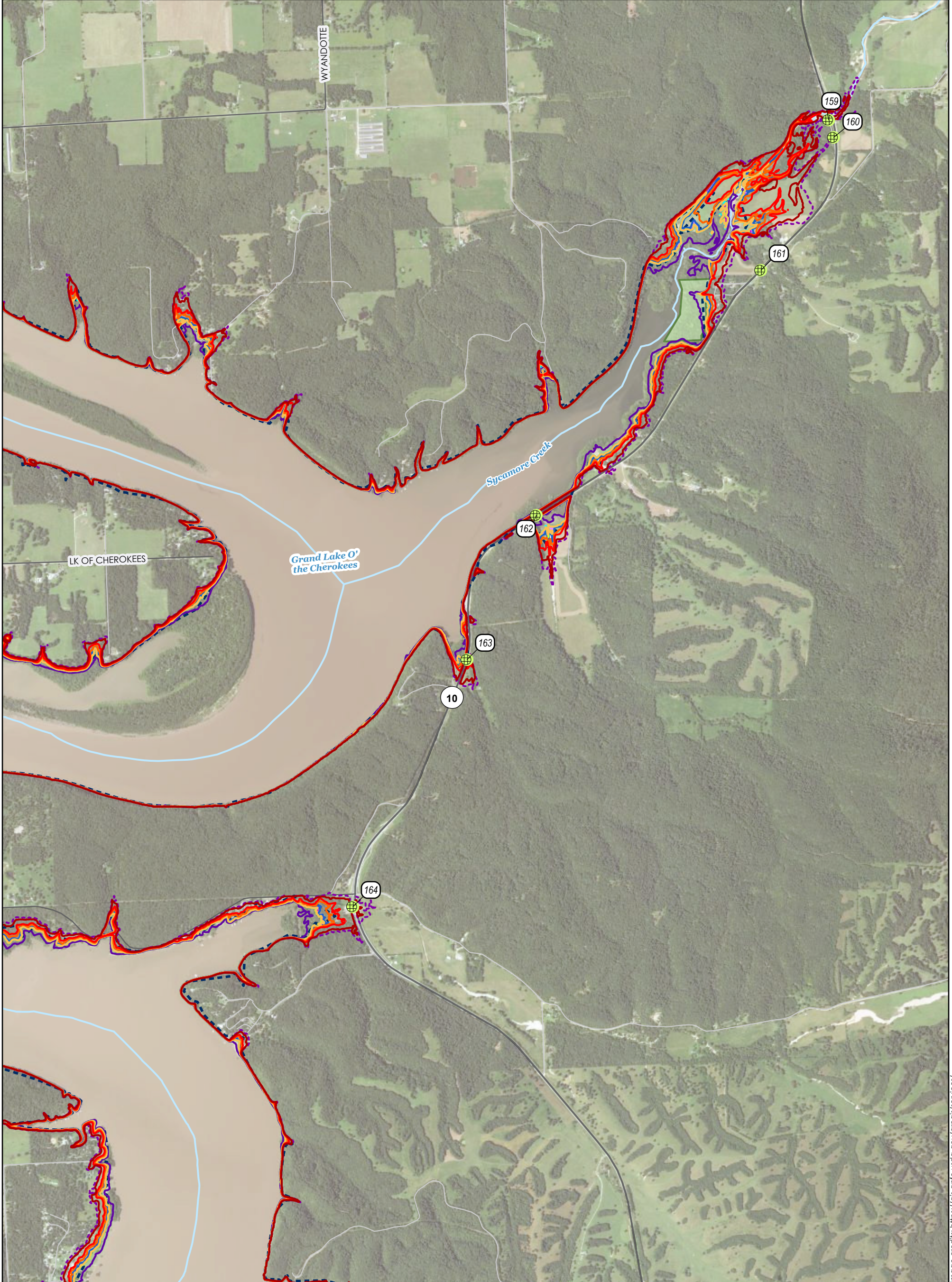
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

C5

C6



E5

E6

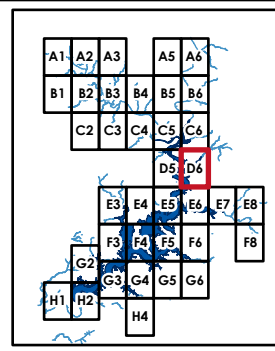
E7

**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH ↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS	
Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: D6

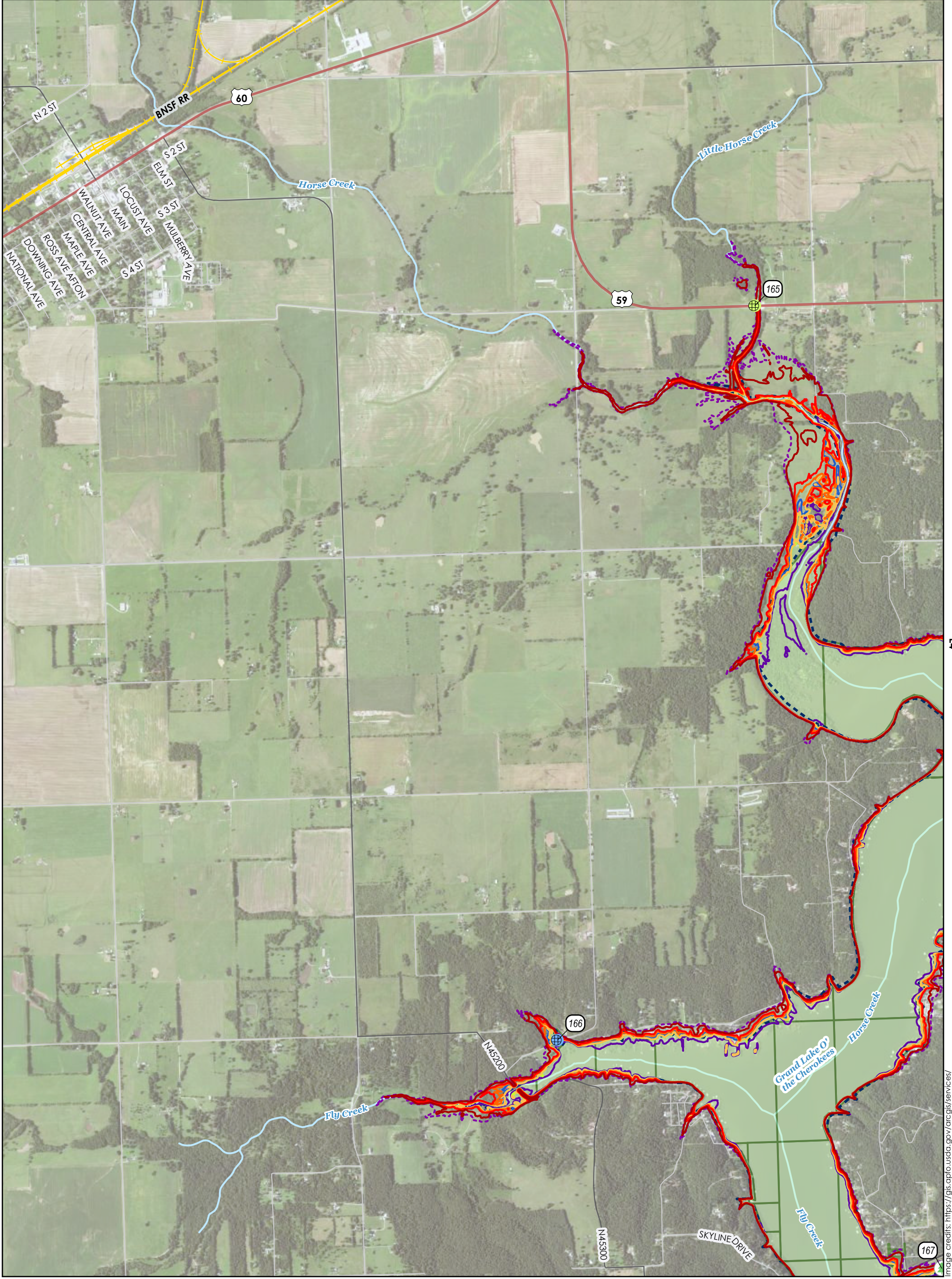
CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

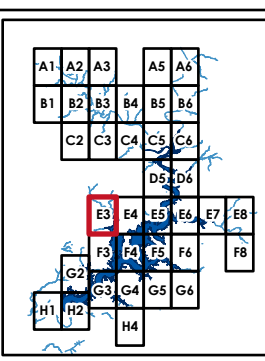


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

Legend

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

OCT 2009 MAX INUNDATION

- 757.0 ft PD
- 753.0 ft PD
- 749.0 ft PD
- 745.0 ft PD
- 744.5 ft PD
- 744.0 ft PD
- 743.5 ft PD
- 743.0 ft PD
- 742.5 ft PD
- 742.0 ft PD
- 734.0 ft PD

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: E3

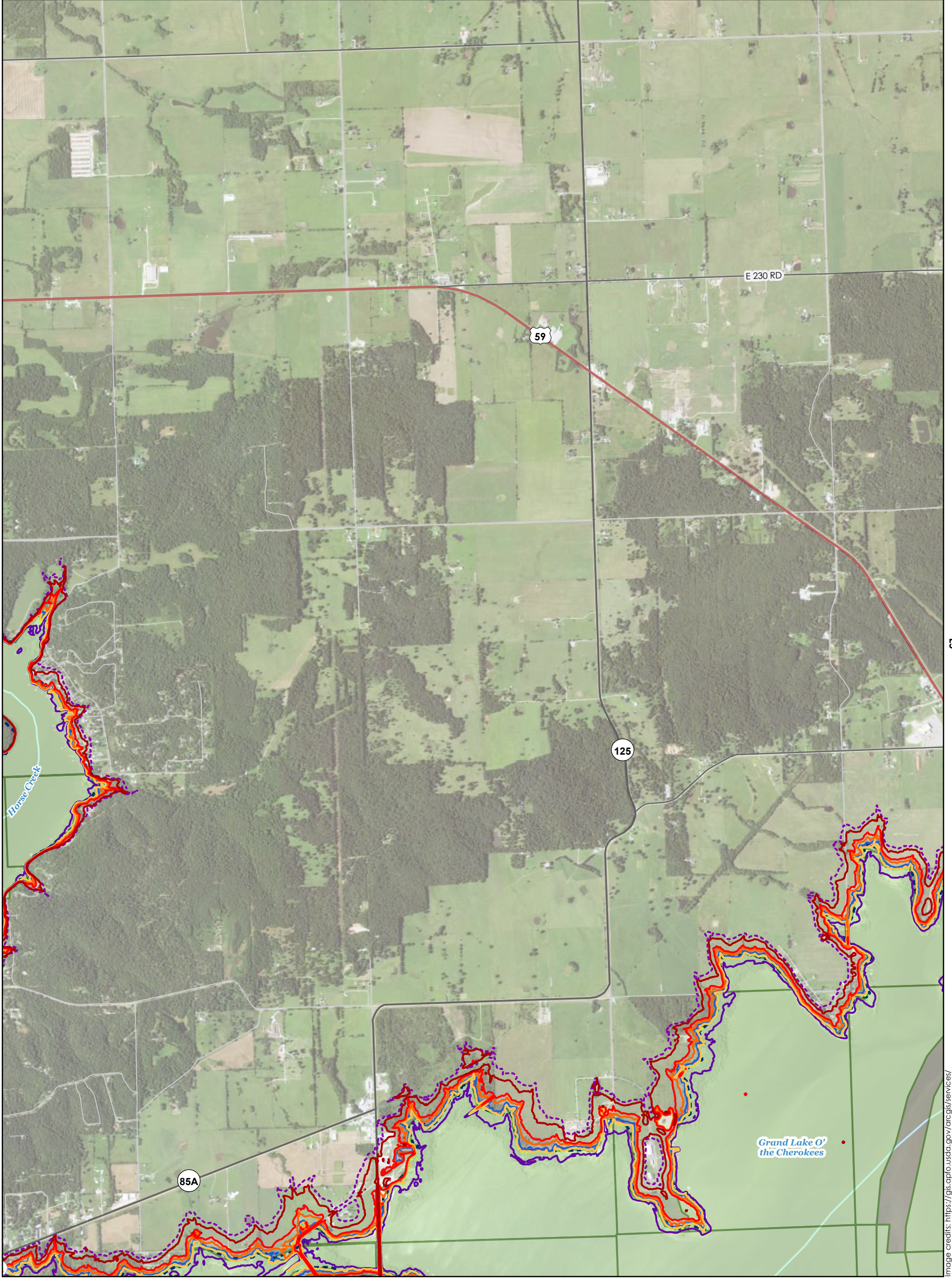
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

D3

D4

D5

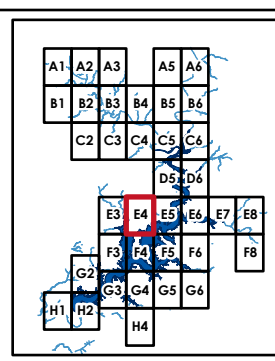


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH ↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	Railroad
State Highway	Stream
US Highway	Flowage Easements
Major Collector	Project Boundary
Local Road	GRDA Ownership

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

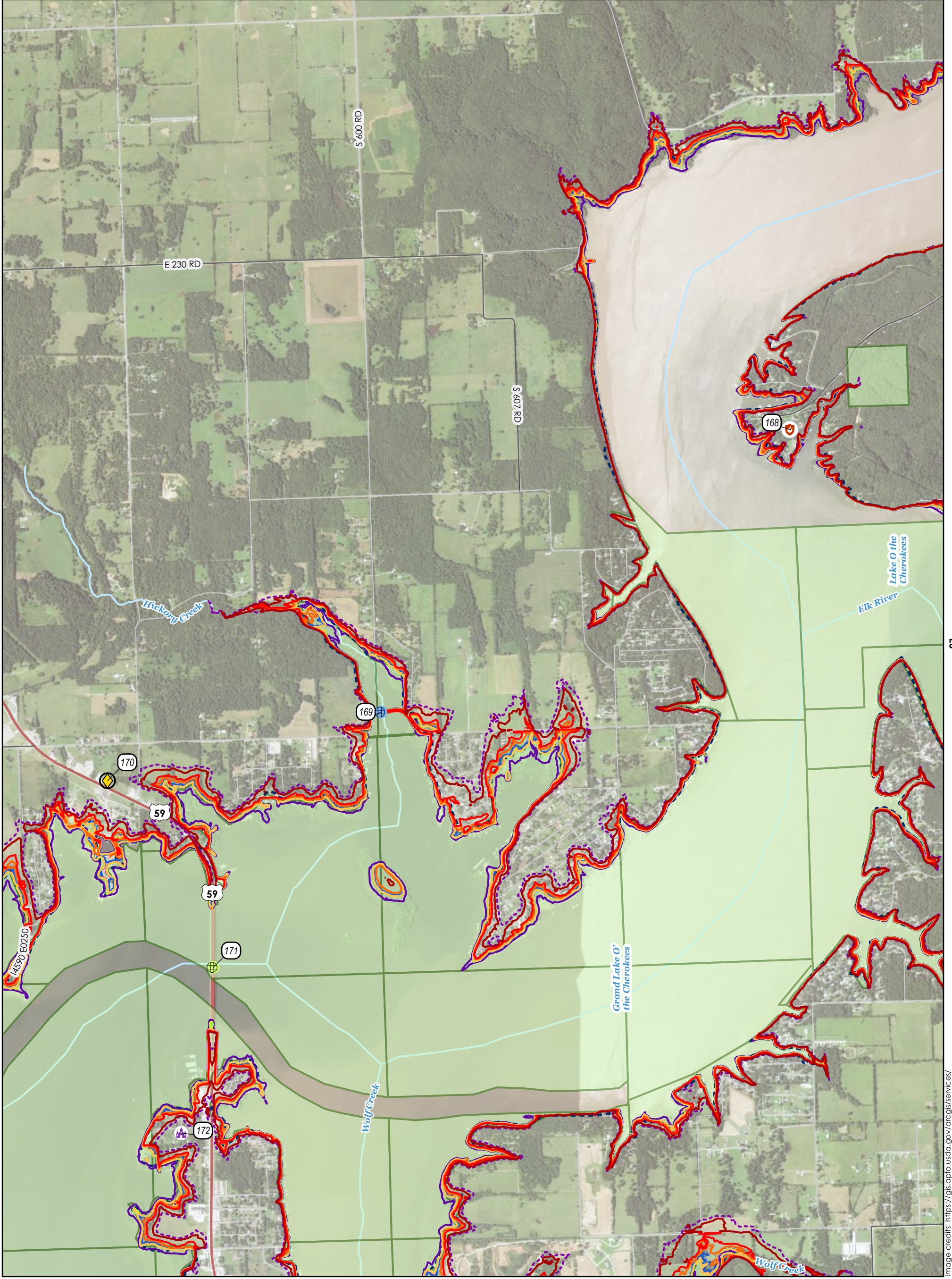
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

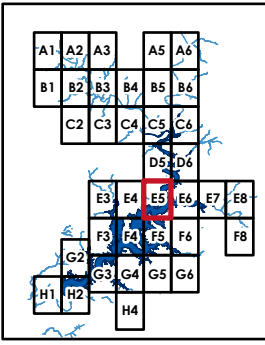


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH ↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

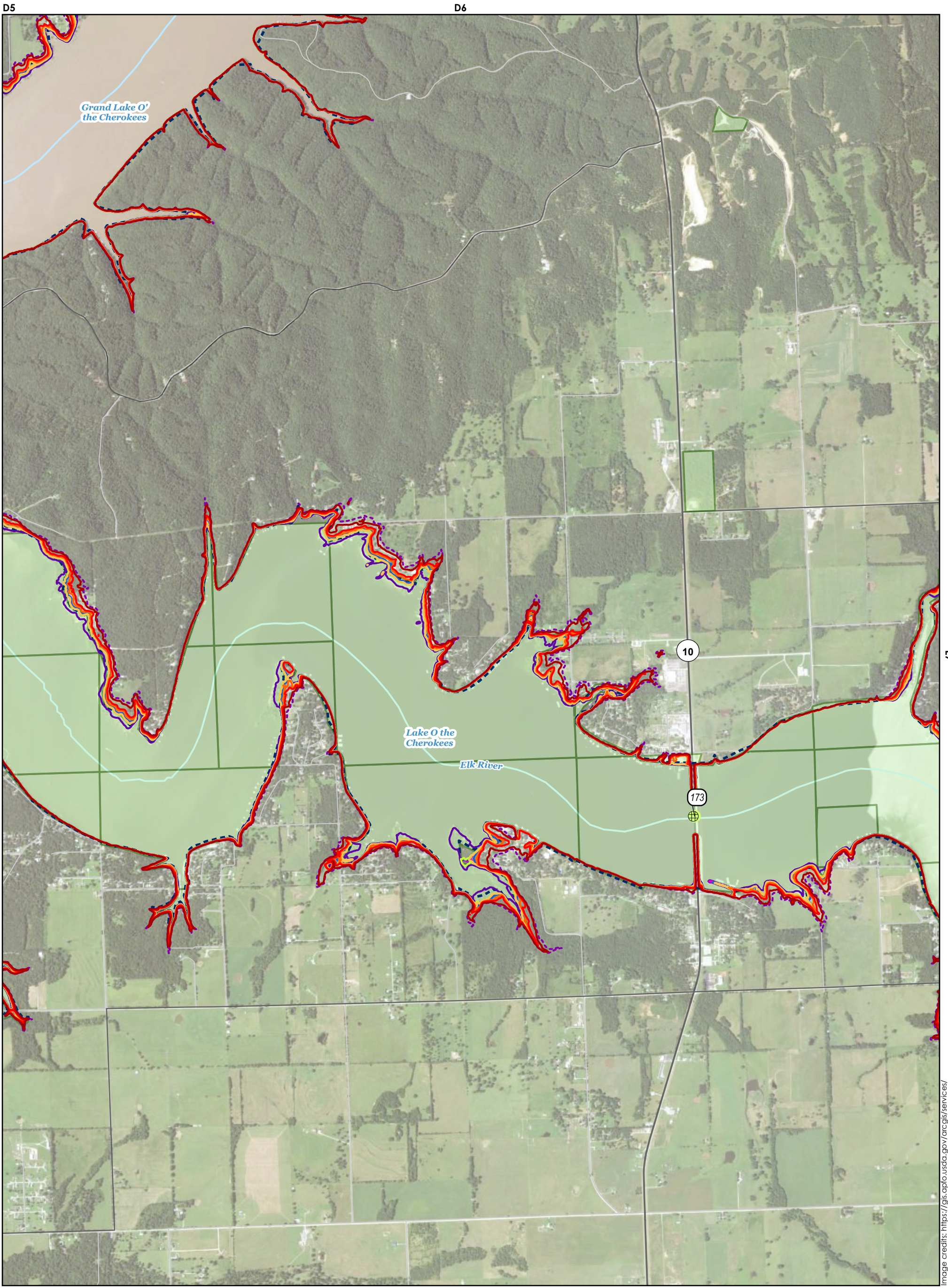
- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

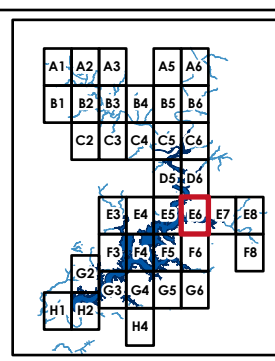


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

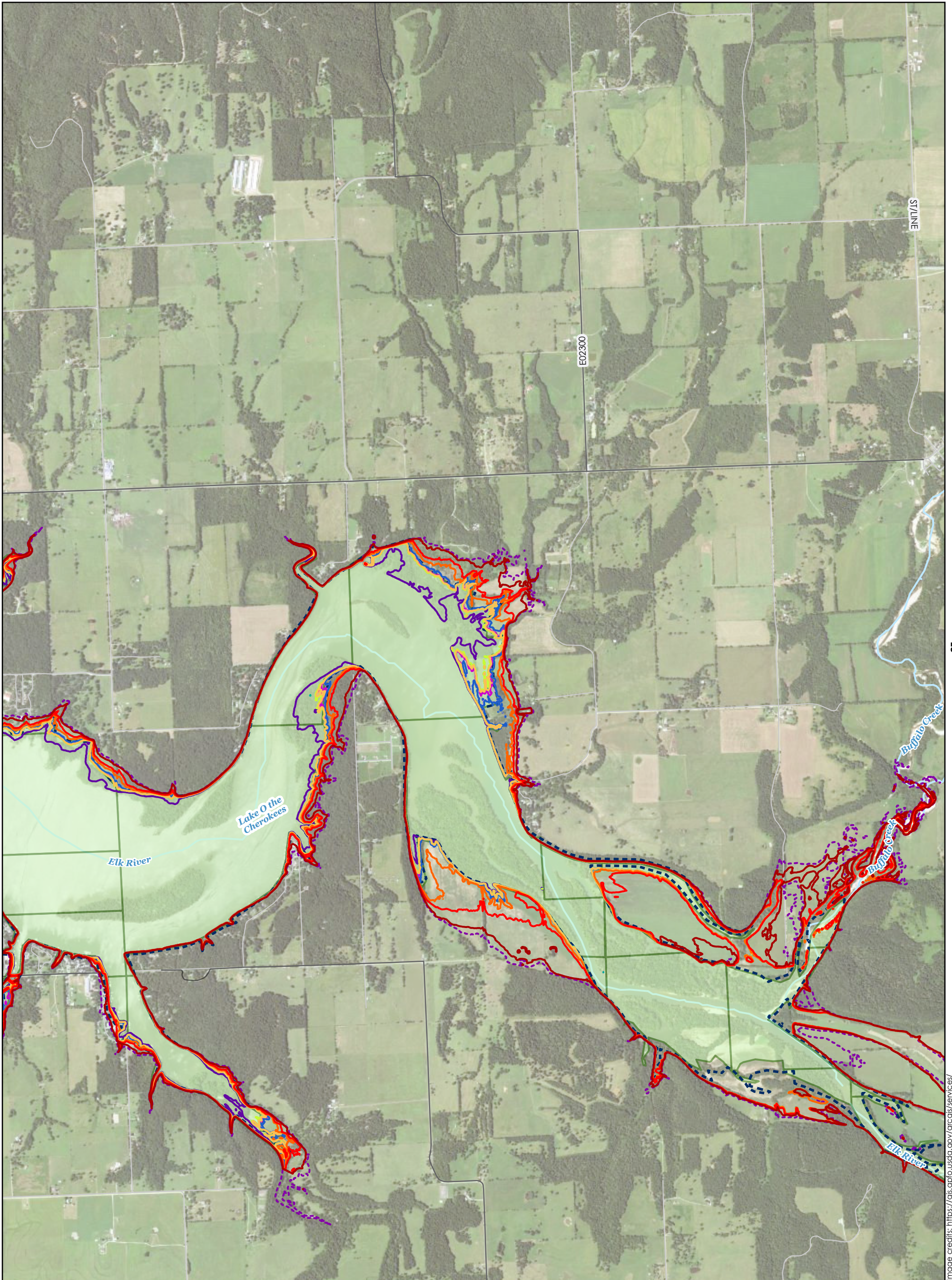
MAP: E6

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

D6

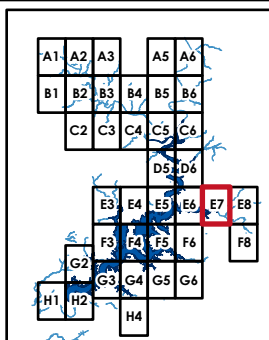
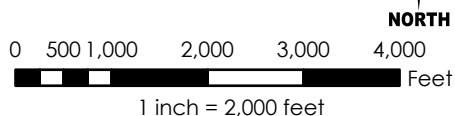


F6

F7

F8

**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E7

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

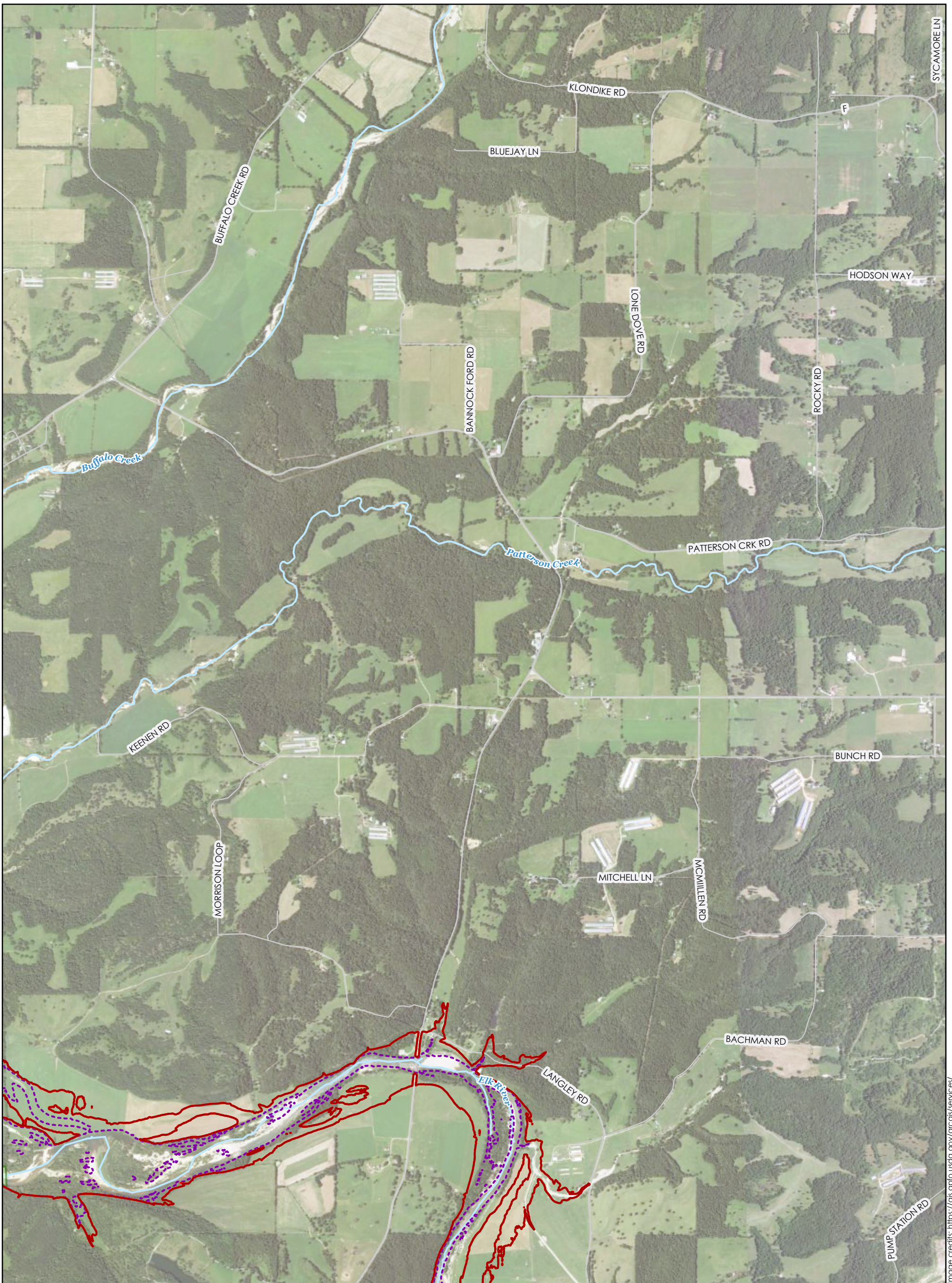


Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6
B1	B2	B3	B4	B5	B6
C1	C2	C3	C4	C5	C6
D1	D2	D3	D4	D5	D6
E1	E2	E3	E4	E5	E6
F1	F2	F3	F4	F5	F6
G1	G2	G3	G4	G5	G6
H1	H2	H3	H4		

OCT 2009 MAX INUNDATION		Legend	
 757.0 ft PD	 743.5 ft PD	 Interstate	 Stream
 753.0 ft PD	 743.0 ft PD	 State Highway	 Flowage Easements
 749.0 ft PD	 742.5 ft PD	 US Highway	 Project Boundary
 745.0 ft PD	 742.0 ft PD	 Major Collector	 GRDA Ownership
 744.5 ft PD	 734.0 ft PD	 Local Road	
 744.0 ft PD			

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

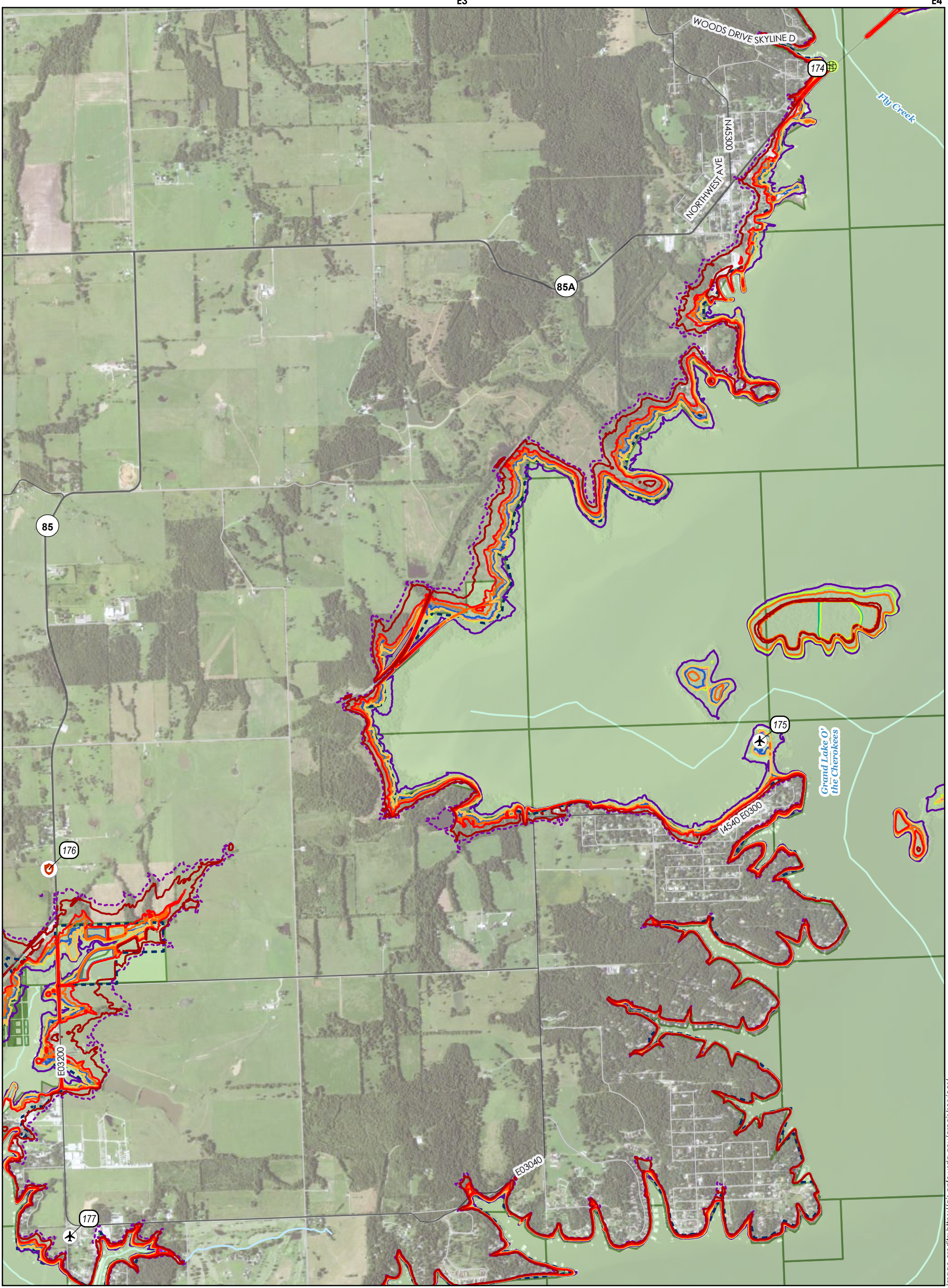
PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: E8

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

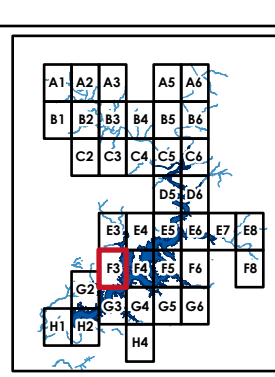


OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

PENSACOLA DAM
 GRAND RIVER DAM AUTHORITY

MAP: F3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
 September 2022

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH
↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6		
B1	B2	B3	B4	B5	B6		
C1	C2	C3	C4	C5	C6		
D1	D2	D3	D4	D5	D6		
E1	E2	E3	E4	E5	E6	E7	E8
F1	F2	F3	F4	F5	F6	F7	F8
G1	G2	G3	G4	G5	G6		
H1	H2	H3	H4				

OCT 2009 MAX INUNDATION		ROAD CLASS	
 757.0 ft PD	 743.5 ft PD	 Interstate	 Stream
 753.0 ft PD	 743.0 ft PD	 State Highway	 Flowage Easements
 749.0 ft PD	 742.5 ft PD	 US Highway	 Project Boundary
 745.0 ft PD	 742.0 ft PD	 Major Collector	 GRDA Ownership
 744.5 ft PD	 734.0 ft PD	 Local Road	
 744.0 ft PD			

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

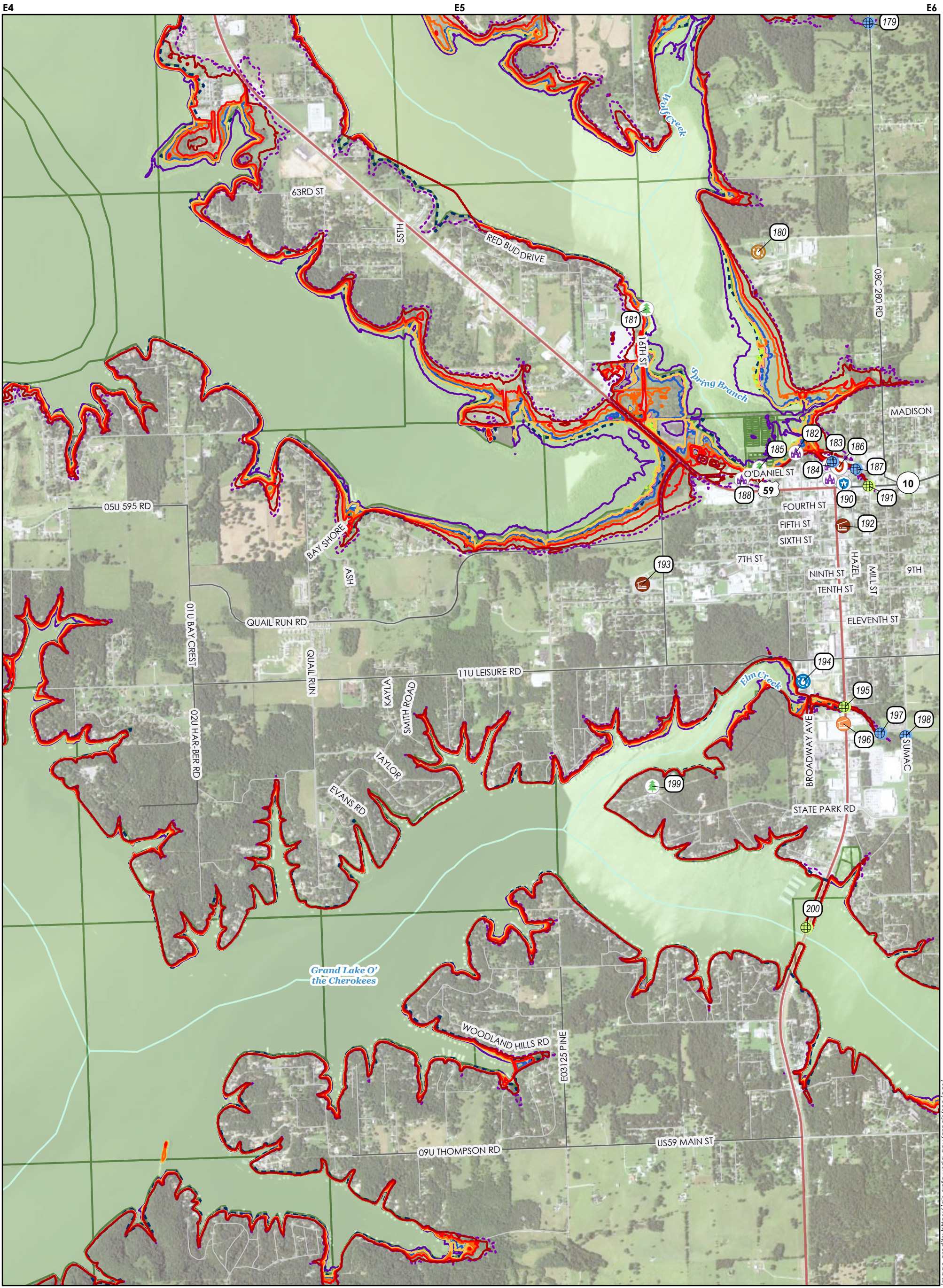
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

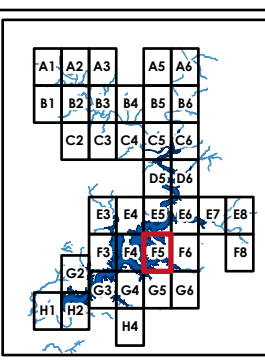


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS		
Interstate	Railroad	Stream
State Highway	Flowage Easements	Project Boundary
US Highway	GRDA Ownership	
Major Collector		
Local Road		

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

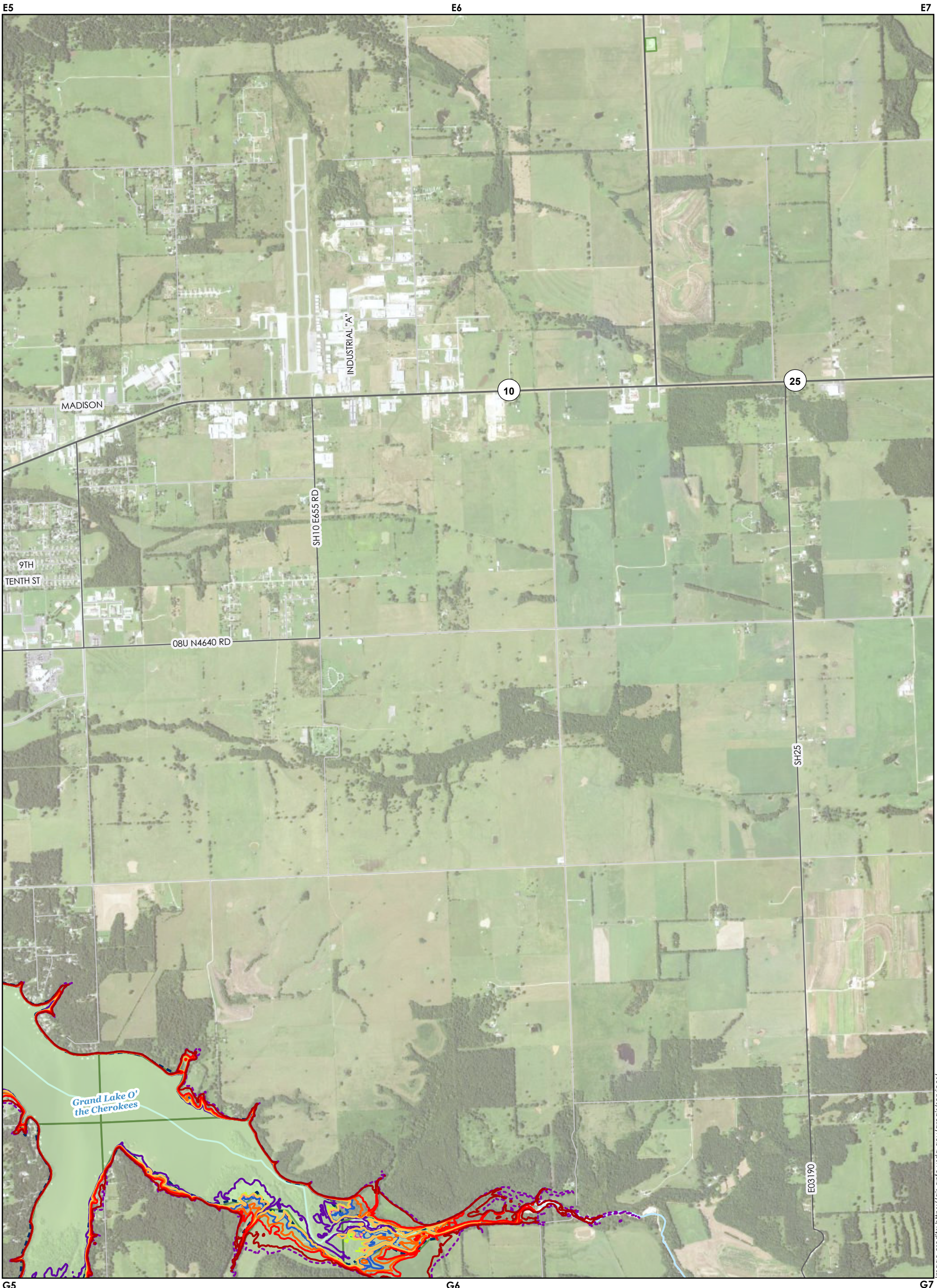
**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: F5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

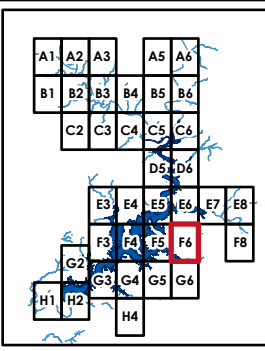


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

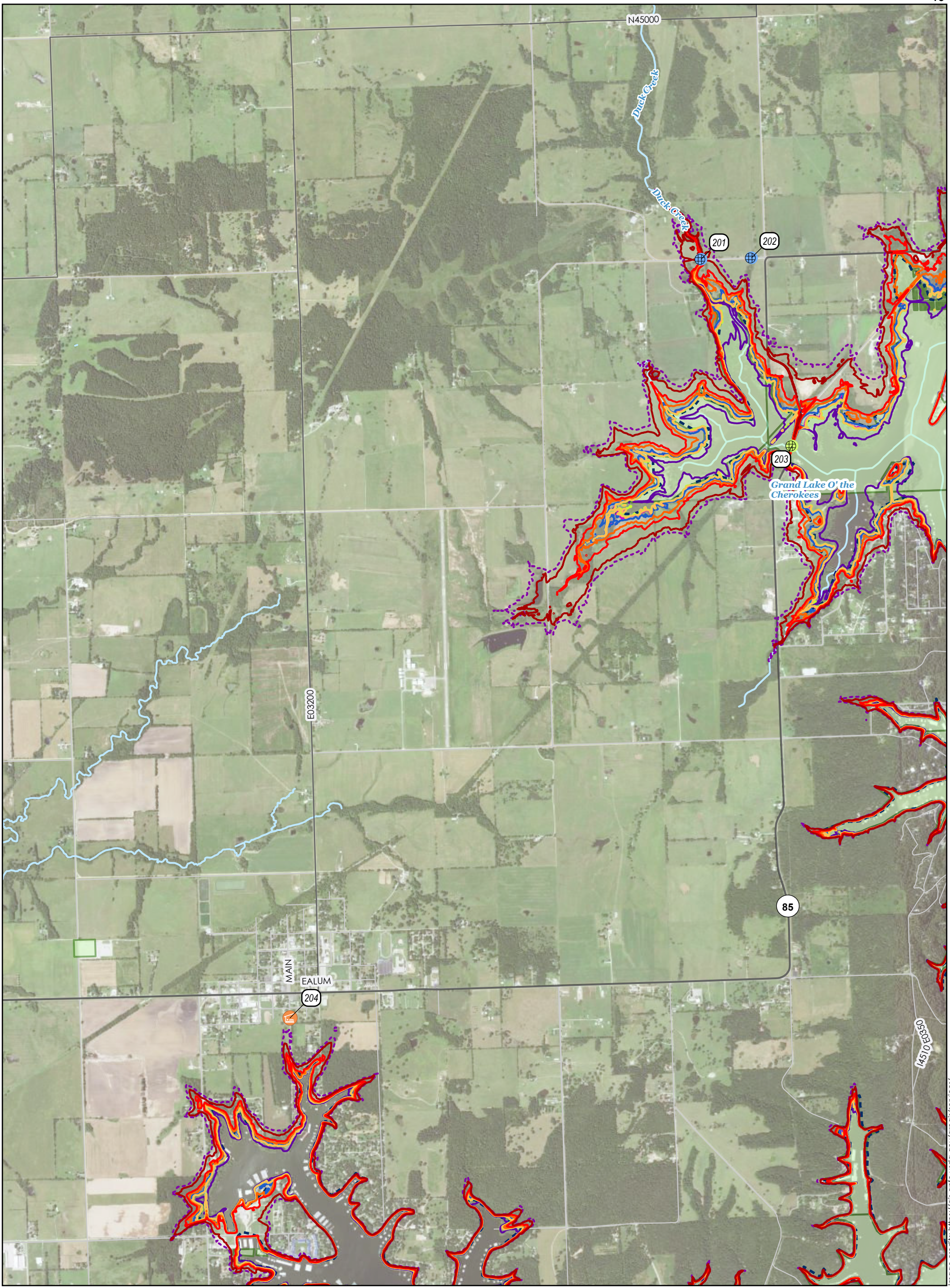
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- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH
↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet

A1	A2	A3	A4	A5	A6
B1	B2	B3	B4	B5	B6
C1	C2	C3	C4	C5	C6
D1	D2	D3	D4	D5	D6
E1	E2	E3	E4	E5	E6
F1	F2	F3	F4	F5	F6
G1	G2	G3	G4	G5	G6
H1	H2	H3	H4		

OCT 2009 MAX INUNDATION		ROAD CLASS	
— 757.0 ft PD	— 743.5 ft PD	— Interstate	— Stream
— 753.0 ft PD	— 743.0 ft PD	— State Highway	- - - Flowage Easements
— 749.0 ft PD	— 742.5 ft PD	— US Highway	■ Project Boundary
— 745.0 ft PD	— 742.0 ft PD	— Major Collector	■ GRDA Ownership
— 744.5 ft PD	— 734.0 ft PD	— Local Road	
— 744.0 ft PD			

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM

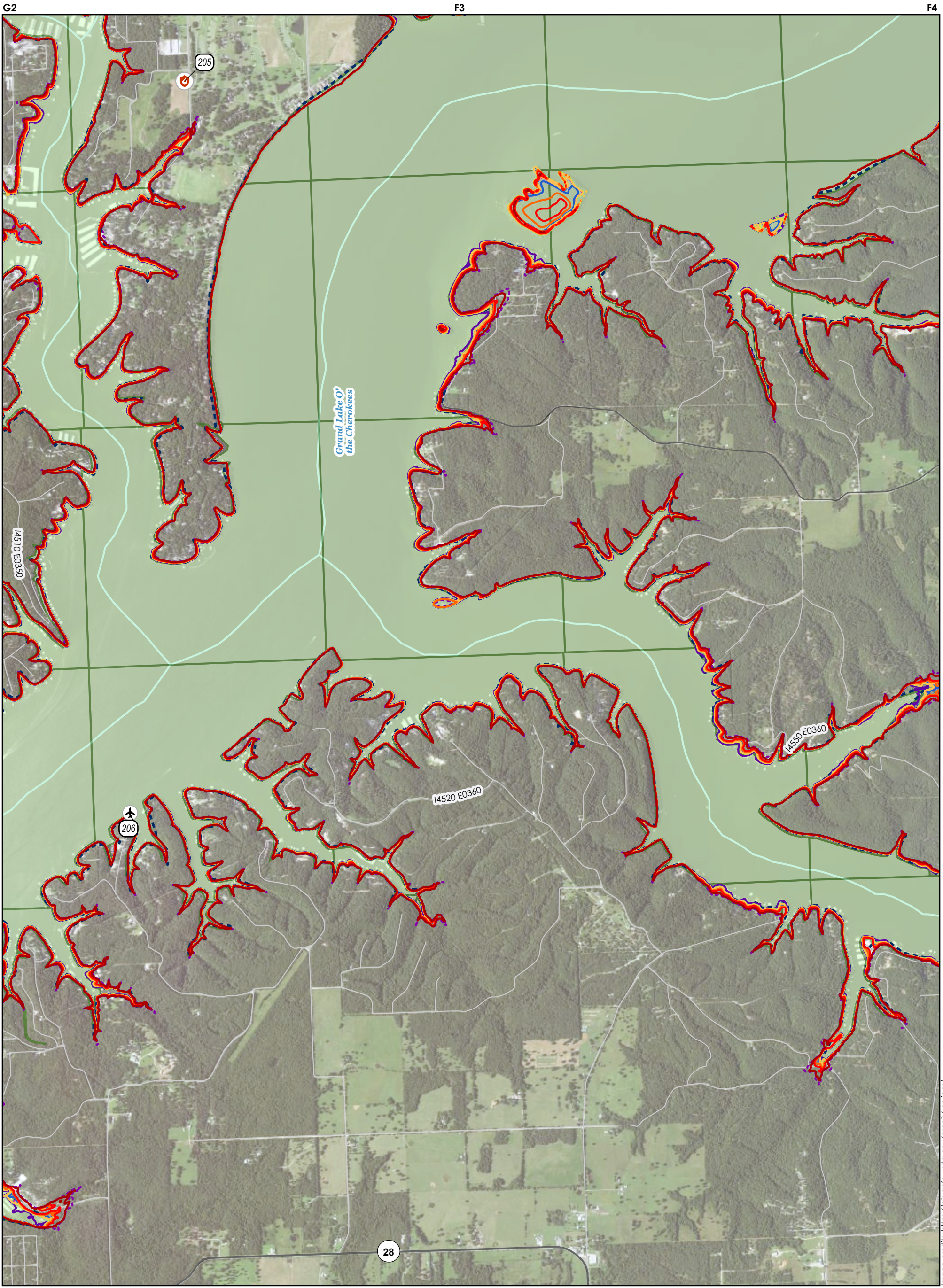
GRAND RIVER DAM AUTHORITY

MAP: G2

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

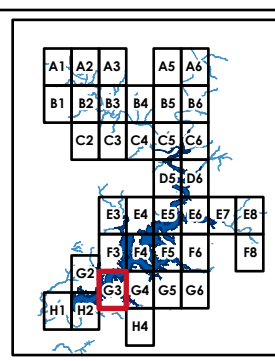


OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH ↑

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

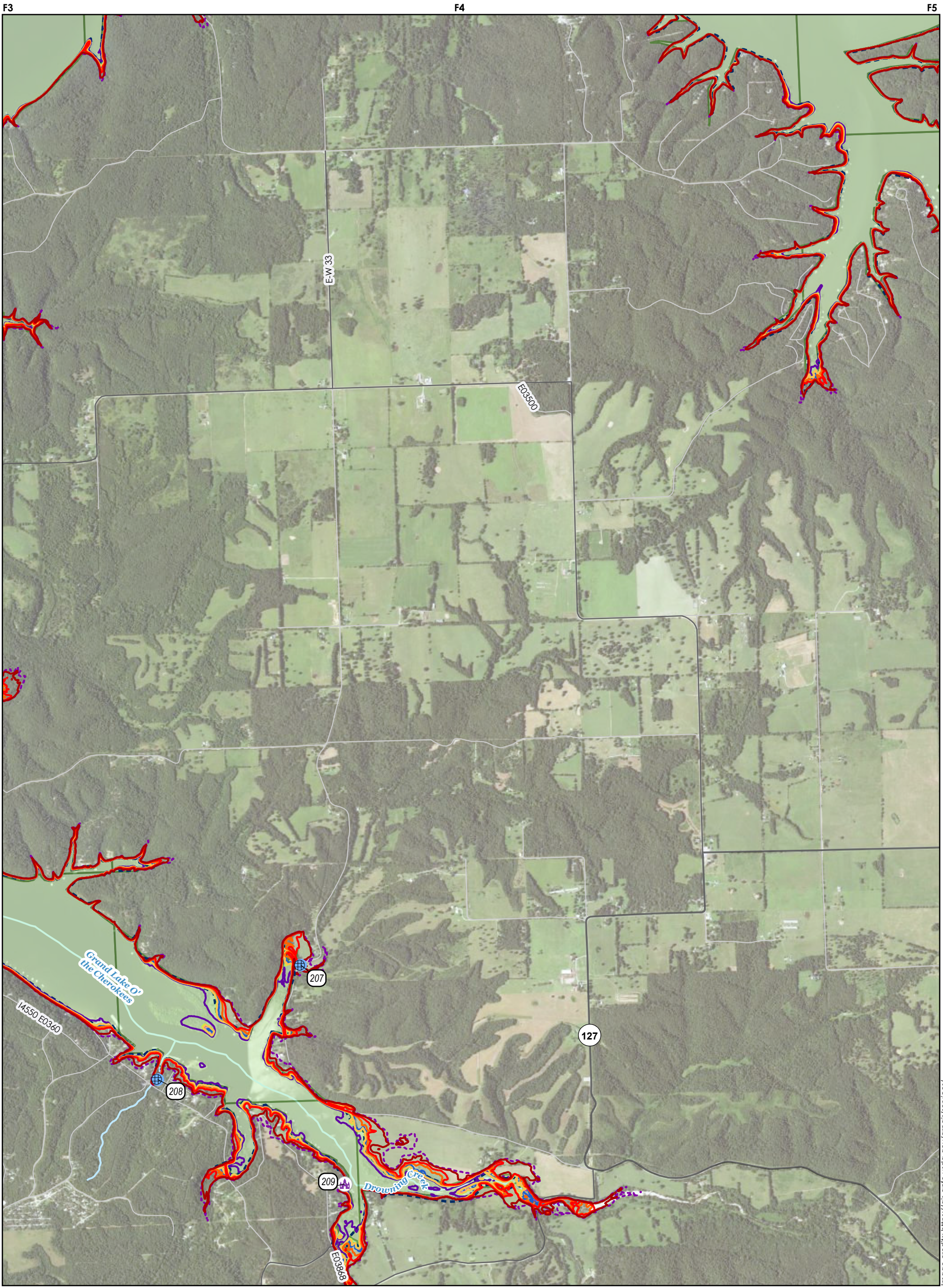
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH
↑

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet

OCT 2009 MAX INUNDATION		ROAD CLASS	
█ 757.0 ft PD	█ 743.5 ft PD	— Interstate	— Stream
█ 753.0 ft PD	█ 743.0 ft PD	— State Highway	- - - Flowage Easements
█ 749.0 ft PD	█ 742.5 ft PD	— US Highway	█ Project Boundary
█ 745.0 ft PD	█ 742.0 ft PD	— Major Collector	█ GRDA Ownership
█ 744.5 ft PD	█ 734.0 ft PD	— Local Road	
█ 744.0 ft PD			

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM

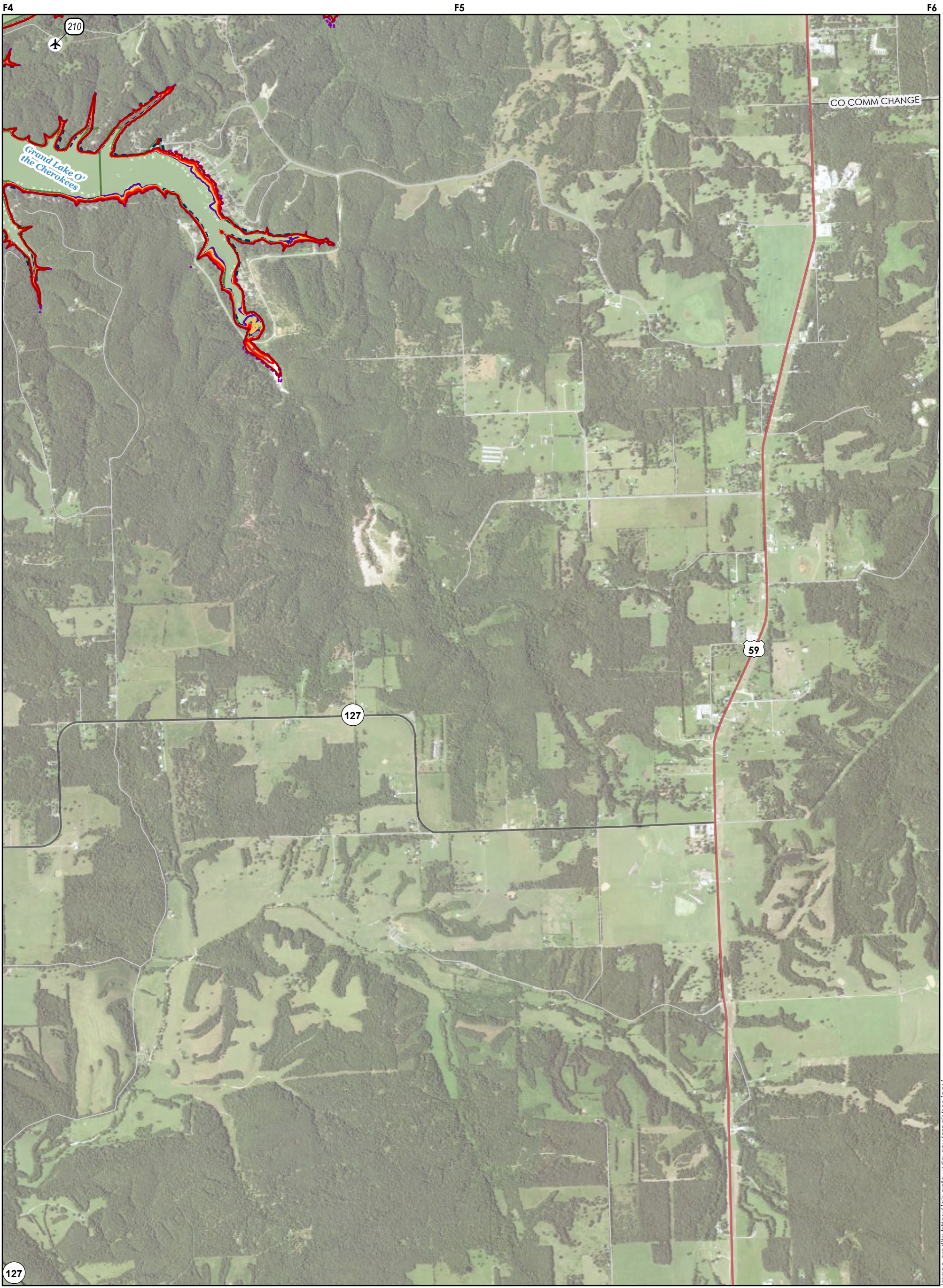
GRAND RIVER DAM AUTHORITY

MAP: G4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019



OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)

NORTH

OCT 2009 MAX INUNDATION

█ 757.0 ft PD	█ 743.5 ft PD
█ 753.0 ft PD	█ 743.0 ft PD
█ 749.0 ft PD	█ 742.5 ft PD
█ 745.0 ft PD	█ 742.0 ft PD
█ 744.5 ft PD	█ 734.0 ft PD
█ 744.0 ft PD	

Legend

— Interstate	— Stream
— State Highway	- - - Flowage Easements
— US Highway	■ Project Boundary
— Major Collector	■ GRDA Ownership
— Local Road	

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

- For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
- See Overview Map for notes on data sources and the Critical Infrastructure symbols.

Image credits: https://gis.dplfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

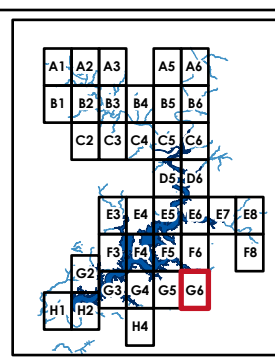


**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**

NORTH

0 500 1,000 2,000 3,000 4,000
Feet

1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate	US Highway
State Highway	Major Collector
Local Road	

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G6

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

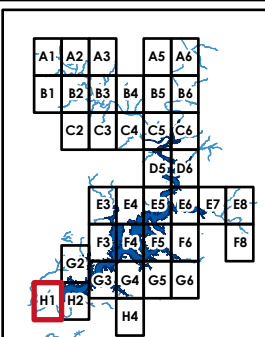
FERC No. 1494
September 2022



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



0 500 1,000 2,000 3,000 4,000
Feet
1 inch = 2,000 feet



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad
Stream
Flowage Easements
Project Boundary
GRDA Ownership

MAP AND LEGEND NOTES

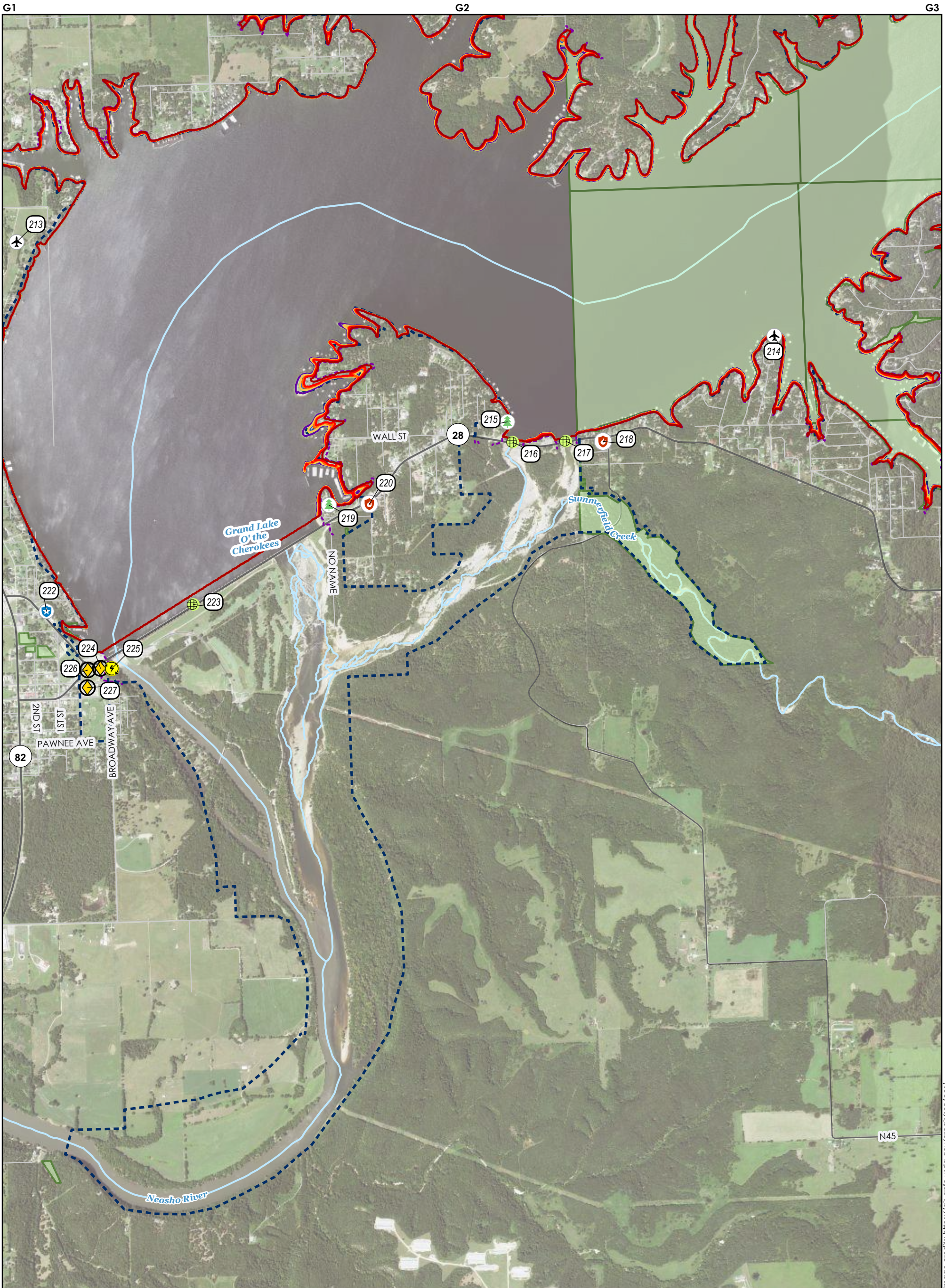
1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

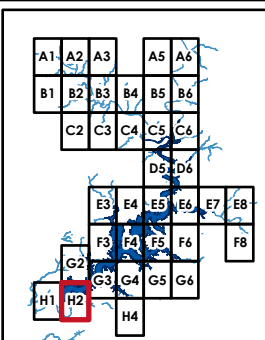
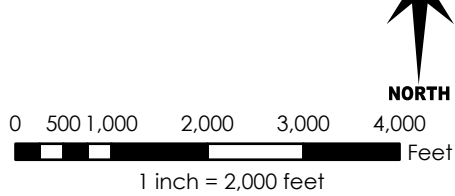
MAP: H1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



**OCTOBER 2009
INUNDATION SCENARIO
(3-YEAR EVENT)**



OCT 2009 MAX INUNDATION

757.0 ft PD	743.5 ft PD
753.0 ft PD	743.0 ft PD
749.0 ft PD	742.5 ft PD
745.0 ft PD	742.0 ft PD
744.5 ft PD	734.0 ft PD
744.0 ft PD	

Legend

ROAD CLASS

Interstate
State Highway
US Highway
Major Collector
Local Road

Railroad	Stream
Flowage Easements	Project Boundary
GRDA Ownership	

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: H2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

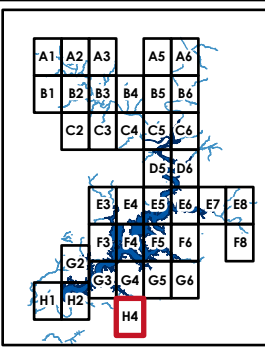
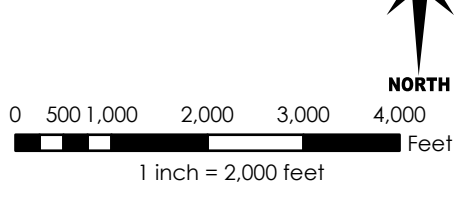
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Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

OCTOBER 2009 INUNDATION SCENARIO (3-YEAR EVENT)



OCT 2009 MAX INUNDATION	
█ 757.0 ft PD	█ 743.5 ft PD
█ 753.0 ft PD	█ 743.0 ft PD
█ 749.0 ft PD	█ 742.5 ft PD
█ 745.0 ft PD	█ 742.0 ft PD
█ 744.5 ft PD	█ 734.0 ft PD
█ 744.0 ft PD	

Legend

ROAD CLASS	
— Interstate	— Stream
— State Highway	- - - Flowage Easements
— US Highway	- - - Project Boundary
— Major Collector	█ GRDA Ownership
— Local Road	

MAP AND LEGEND NOTES

1. For areas where only the highest starting elevation inundation boundary is visible, the inundation from other starting elevations is nearly identical.
2. See Overview Map for notes on data sources and the Critical Infrastructure symbols.

PENSACOLA DAM GRAND RIVER DAM AUTHORITY

MAP: H4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA
FERC No. 1494
 September 2022