

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. 110832

FEDERAL AID PROJECT NO. FEDERAL AID PROJECT STPF-0019(62)

HWY. 75 SLIDE REPAIRS (CROSS CO.) (S)

STATE HIGHWAY 75 SECTION 3

IN CROSS COUNTY

The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the location, character and depth of the materials encountered. The information is only included and made available so that bidders may have access to subsurface information obtained by the Department and is not intended to be a substitute for personal investigation, interpretation and judgment of the bidder. The bidder should be cognizant of the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated herein.



INTEROFFICE MEMORANDUM

February 5, 2024

TO: Ms. Keli Wylie, Assistant Chief Engineer – Program Delivery

FROM: Erica Adams, Division Engineer – Program Management

SUBJECT: Emergency Slide Repairs
Cross County

Severe storms and tornadoes that occurred on March 31, 2023 caused landslides on Highways 42 and 75 in Cross County. In order to prevent further damage, it has been requested that a project be programmed to repair these locations. The repairs will be performed by contract utilizing Federal-aid Emergency Relief funding.

Upon your concurrence, the following project numbers and names will be assigned for the slide repairs.

Concur: KW

NEW PROJECTS

Job 110831, Hwy. 42 Slide Repairs (Cross Co.) (S)

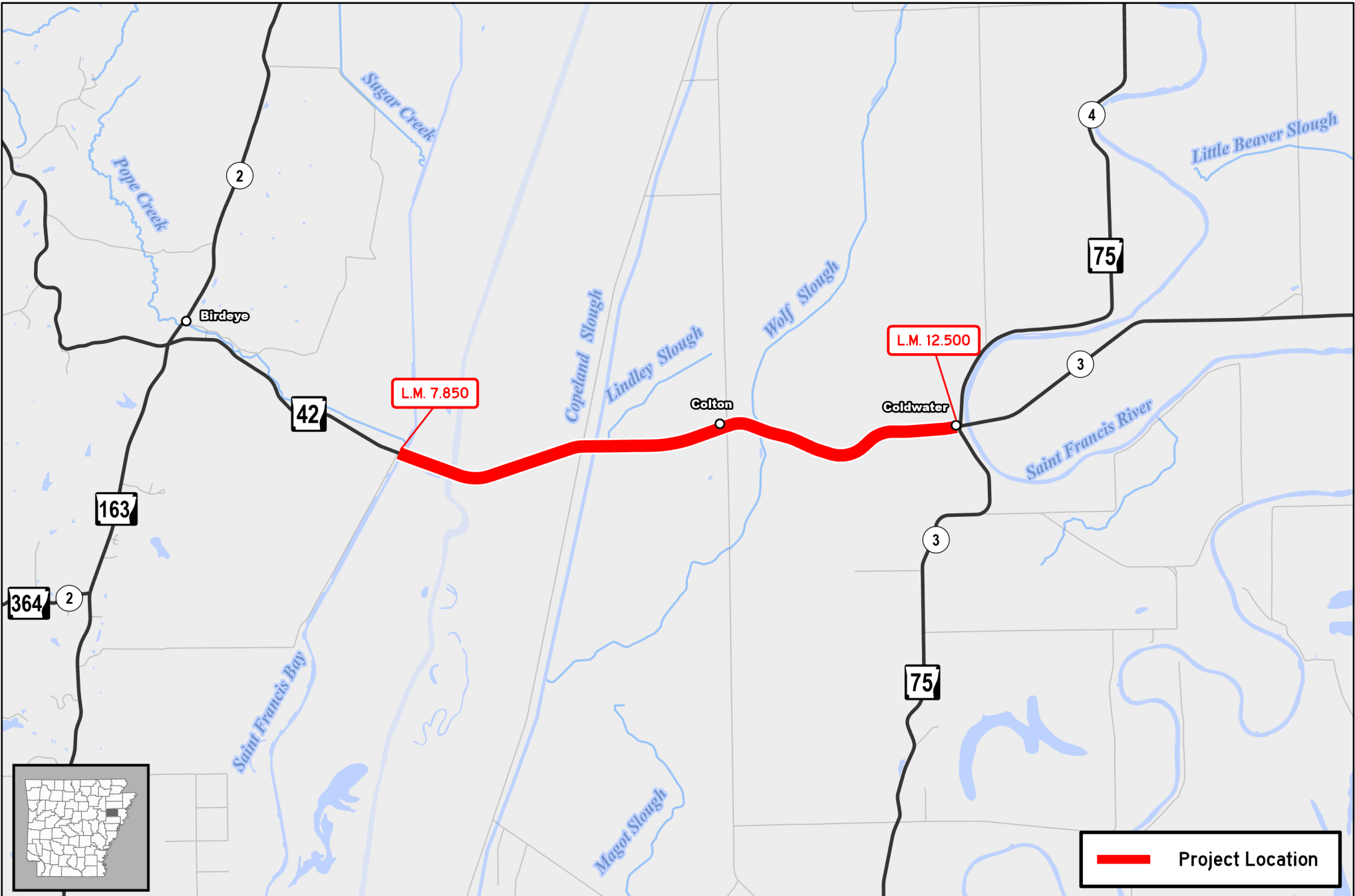
Job 110832, Hwy. 75 Slide Repairs (Cross Co.) (S)

Attachments

DISTRIBUTION

Chief Engineer – Preconstruction
Chief Engineer – Operations
Assistant Chief Engineers
Bridge
Bridge Operations
Construction
Consultant Contracts
Environmental
Fiscal Services
Local Programs
Maintenance
Materials
Planning
Program Management
Right of Way
Roadway

Surveys
System Information and Research
District 1
Job 110831 "C" File
Job 110832 "C" File




Job 110831
Hwy. 42 Slide Repairs (Cross Co.) (S)
 Hwy. 42, Sec. 3
 Cross County

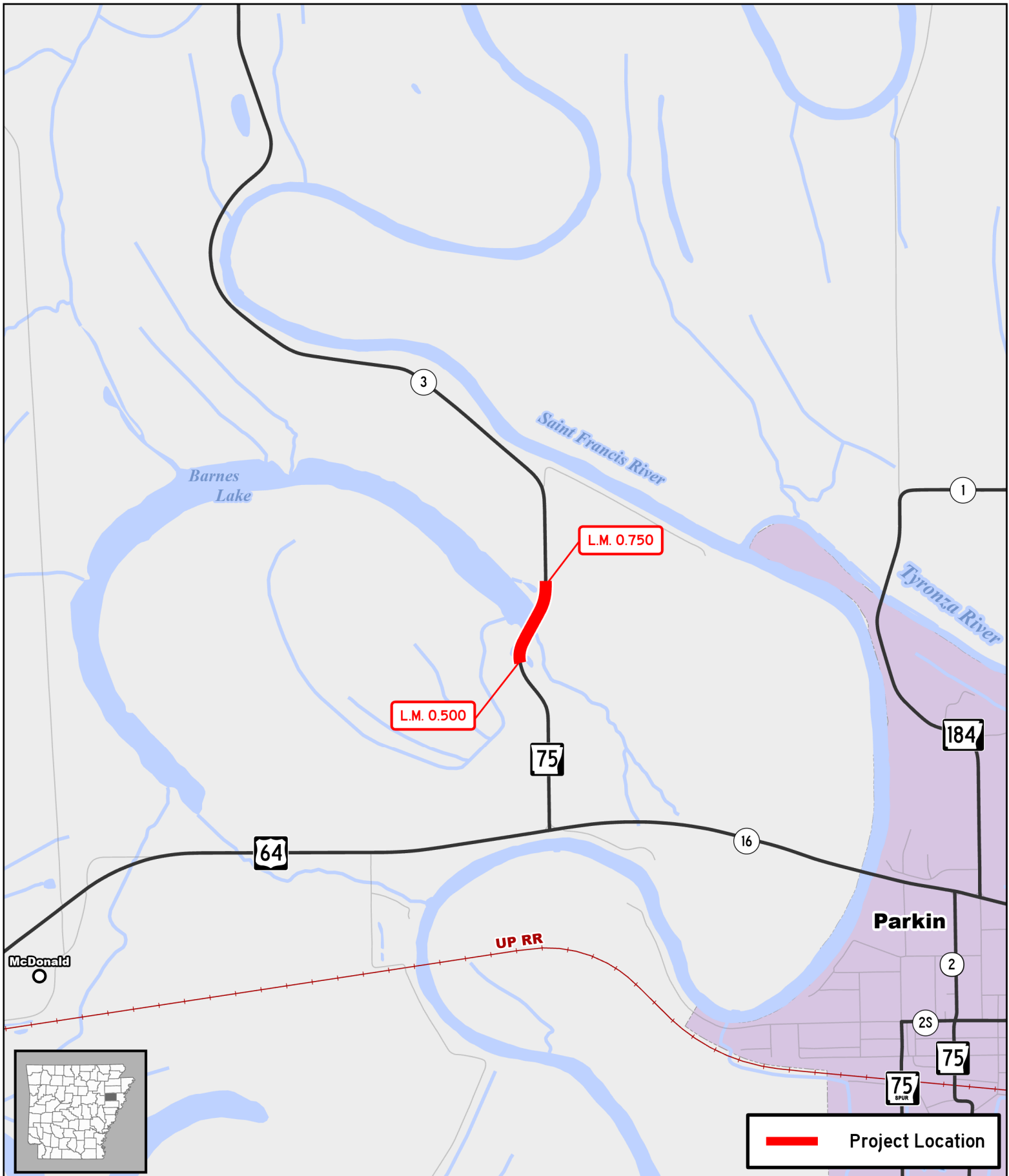
 Project Location




AR DOT
 ARKANSAS DEPARTMENT
 OF TRANSPORTATION



0 0.25 0.5 1
 Mile



Job 110832
Hwy. 75 Slide Repairs (Cross Co.) (S)
 Hwy. 75, Sec. 3
 Cross County





INTEROFFICE MEMORANDUM

December 22, 2023

TO: Erica Adams, Program Management Division Engineer

FROM: Michael Kelly, Staff Maintenance Engineer

SUBJECT: Job Number Request
FHWA Emergency Relief Funds
AR2023-1, March 31, 2023, Severe Storms and Tornadoes

Recovery and repair efforts as a result of damage due to severe storms and tornadoes that began on March 31, 2023, and continued thereafter will necessitate job number assignments for the road embankment locations below. The Materials Division has performed preliminary studies, provided repair recommendations, cost estimates. Repairs at these locations will be performed by contract.

District 1:

- 1. Cross County, Highway 42, Section 3, Log Mile 7.85 – 12.50**
 - 2600'+ partial embankment failure along fore slope of roadway
 - \$3,700,000

- 2. Cross County, Highway 75, Section 3, Log Mile 3.79**
 - 600'+ partial embankment failure along fore slope of roadway
 - \$2,000,000

C: Assistant Chief Engineer – Maintenance (Email)
Assistant Chief Engineer – Program Delivery (Email)
State Maintenance Engineer (Email)
District Engineer – 1 (Email)
Materials Engineer (Email)

ARKANSAS STATE HIGHWAY COMMISSION

DALTON A. "ALEC" FARMER, JR.
CHAIRMAN
JONESBORO

PHILIP TALDO
VICE CHAIRMAN
SPRINGDALE

KEITH GIBSON
FORT SMITH



P.O. Box 2261 • Little Rock, Arkansas 72203-2261
Phone (501) 569-2000 • Voice/TTY 711 • Fax (501) 569-2400
www.ArDOT.gov • www.IDriveArkansas.com

MARIE HOLDER
LITTLE ROCK

DAVID M. HAAK
TEXARKANA

LORIE H. TUDOR, P.E.
DIRECTOR

September 19, 2023

Ms. Vivien Hoang
Division Administrator
Federal Highway Administration
3128 Federal Office Building
Little Rock, AR 72201

Dear Ms. Hoang:

Under the provisions of Title 23, U.S.C. Section 125, the Arkansas Department of Transportation is requesting Emergency Relief (ER) Funds to assist in the cost of repairing any damages on the Federal-aid highways in Arkansas caused by the severe storms and tornadoes that began on March 31, 2023.

A notice of intent to request these funds was sent to your office on May 22, 2023, along with copies of the Emergency Declarations issued by Arkansas Governor Sarah Huckabee Sanders and President Joseph Biden that pertain to this event (copies enclosed).

Based on the preliminary estimate of damages, we are requesting \$4.8 million in ER funds. Following a favorable determination of eligibility for ER funds by your agency, we will submit a detailed damage inspection report with the scope of work and cost estimate for each site as a program of projects.

Sincerely,

A handwritten signature in blue ink that reads "Lorie H. Tudor".

Lorie H. Tudor, P.E.
Director

Enclosures

- c. Chief Engineer – Operations
- Chief Engineer – Preconstruction
- Chief - Administration
- Assistant Chief Engineer – Maintenance
- Assistant Chief Engineer – Program Delivery
- Maintenance
- Program Management

Damage Survey Summary Report - AR 2023-1
Arkansas Department of Transportation

General Nature of Event: Severe storms and tornadoes throughout Arkansas that began on March 31, 2023.

Description of Type and Extent of Damage: The tornadic winds and excessive rainfall over previously saturated soils triggered roadway slope failures, as well as shoulder and embankment erosion.

Governor’s Proclamation: On March 31, 2023, Governor Sarah Sanders proclaimed (DR23-05) a regional emergency in the State of Arkansas.

Presidential Declaration: On April 2, 2023, President Joseph Biden declared these counties as disaster areas for public assistance: Cross, Lonoke, and Pulaski Counties.

Estimated Cost of Event

Emergency Repairs		\$0
Permanent Repairs (80% Federal Share)	\$6,000,000 x 80%	\$4,800,000
Total Emergency Relief Funds being requested		\$4,800,000

Emergency Repairs to restore essential traffic were not required for this event.

A damage summary spreadsheet, arranged by District, County, Route and Section is attached. Individual Detailed Damage Inspection Reports for each site are on file but not attached to this Summary Report. It is anticipated that additional sites on federal aid routes maintained by local jurisdictions may be identified at a later date. No details regarding such sites are available at this time.

Attachments

- A – March 31, 2023, Storm Damage Cost Summary
- B – Proclamation by Governor Sanders
- C – Declaration by President Biden

**Attachment A – Storm Damage Cost Summary
AR 2023-1, March 31st, 2023 Severe Storms and Tornadoes**

District	County	Route	Section	Beg Log Mile	End Log Mile	Description	Permanent Repair (Est.)
1	Cross	42	3	7.85	12.50	2600' Slope Failures at multiple locations near Wolf Slough	\$3,500,000
1	Cross	75	3	0.50	0.75	600' Slope Failure along roadway adjacent to Barnes Lake	\$1,875,000
6	Pulaski	40	545	0.07	0.08	North abutment apron washout on Bridge # C5710	\$625,000
Total							\$6,000,000

Total ARDOT FHWA ER Requested amount = 80% of Permanent Repairs (0.8 x \$6,000,000) = \$4,800,000

STATE OF ARKANSAS
EXECUTIVE DEPARTMENT
PROCLAMATION

DR 23-05

TO ALL WHOM THESE PRESENTS COME - GREETINGS:

WHEREAS: On March 31, 2023, severe thunderstorms and tornadoes struck Arkansas and continue to cause dangers, hardships, and suffering throughout the state, which in turn, warrants this executive action;

WHEREAS: Great hardship has fallen upon citizens and businesses in Arkansas, as well as public and private properties throughout the state;

WHEREAS: The weather-related damage from this event has created the need for commercial vehicles to haul heavy equipment, oversized loads, transformers, necessary hardware, and other transmission and distribution equipment to line crews for the purpose of restoring power to the citizens of the State of Arkansas;

WHEREAS: There are numerous downed power lines, and it is important to maintain a safe distance from downed power lines and from the line crews and equipment restoring power to the citizens of the State of Arkansas; and

WHEREAS: Pursuant to 49 CFR §390.23, the Governor is authorized to declare a regional emergency for the duration of emergency conditions, not to exceed thirty (30) days from the date of the initial declaration of emergency, and any motor carrier or driver operating a commercial vehicle to provide emergency relief is temporarily exempt from the regulations found in 49 CFR §390 to §399 for the duration of the declared emergency.

NOW THEREFORE, I, SARAH HUCKABEE SANDERS, acting under the authority vested in me as Governor of the State of Arkansas and pursuant to Act 511 of 1973, as amended, do hereby declare that a state of emergency exists in the State of Arkansas as applied to commercial vehicles hauling heavy equipment, oversized loads, transformers, necessary hardware, and other transmission and distribution equipment to line crews for the purpose of restoring power to the citizens of the State.

FURTHERMORE: I do hereby declare that a state of emergency exists in the State of Arkansas as applied to emergency response vehicles such as, but not limited to, utility vehicles, bucket trucks, and electric utility supply trucks responding to the storms and related damage. These emergency response vehicles are authorized to bypass all Arkansas Department of Transportation weigh station facilities through April 5, 2023. This authorization does not include vehicles that require permits to operate on Arkansas' roadways. This authorization does not relieve size and weight restrictions. This declaration only applies to weigh stations and to vehicles traveling in convoy.

FURTHERMORE: I, hereby invoke the emergency executive powers vested in me under Ark. Code Ann. §§12-75-101 et seq., as amended, and suspend all provisions of regulating statutes prescribing procedures for the conduct of the Office

of State Procurement, the Arkansas Building Authority, the State Office of Personnel Management, and all other State departments and agencies to render maximum assistance to the Arkansas Department of Energy and Environment and the Arkansas Department Public Safety, through the Arkansas Division of Emergency Management, relative to the removal of any potential impediment to the rapid and orderly remediation of the disposal site and to rendering of assistance to political subdivisions.

IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the Great Seal of the State of Arkansas to be affixed on this 31st day of March, in the year of our Lord 2023.



Sarah Huckabee Sanders, Governor



John Thurston, Secretary of State

DECLARED APRIL 2, 2023

SUMMARY

STATE: Arkansas
NUMBER: FEMA-4698-DR
INCIDENT: Severe Storms and Tornadoes
INCIDENT PERIOD: March 31, 2023
DATE REQUESTED BY GOVERNOR: April 1, 2023
FEDERAL COORDINATING OFFICER: Roland W. Jackson
National FCO Program

DESIGNATIONS AND TYPES OF ASSISTANCE:

INDIVIDUAL ASSISTANCE (Assistance to individuals and households):

Cross, Lonoke, and Pulaski Counties.

PUBLIC ASSISTANCE (Assistance for emergency work and the repair or replacement of disaster-damaged facilities):

Cross, Lonoke, and Pulaski Counties for debris removal and emergency protective measures (Categories A and B) including direct federal assistance, under the Public Assistance program.

HAZARD MITIGATION GRANT PROGRAM (Assistance for actions taken to prevent or reduce long term risk to life and property from natural hazards):

All counties in the State of Arkansas are eligible to apply for assistance under the Hazard Mitigation Grant Program.

OTHER: Additional designations may be made at a later date if requested by the state and warranted by the results of further damage assessments.

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM FEDERAL LANDS HIGHWAY EMERGENCY RELIEF FOR FEDERAL AID (ERFA) DETAILED DAMAGE INSPECTION REPORT (DDIR)	Disaster No: AR2023-1 Sheet: 1 of 6 Report Name: ER231-19-42-3 Status: Active Eligible Version No: 5 Version Date: 12/14/2023
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Applicant: Arkansas DOT		Sub-Applicant:		Region District: District 1
County: Cross (37)	Congressional District: 1		Federal-aid Route #: 42-3	Mile Post: 7.85-12.50
Facility Name: Hwy 42 Sec 3		Facility #: 42		Functional Class: FC 5 – Major Collector
Federal Project # ER:		Federal Project # PR:		Financial #:
State Project # ER:			State Project # PR:	

Facility Data

Facility Type: Road	Travel Way Width: 20	Surface Type: Asphalt	Thickness:
ADT: 360	Shoulder Width: 2	Shoulder Type: Asphalt	Thickness:
Bridge Type:	Bridge ID:		

DDIR Cost Summary

Emergency Repair Cost Estimate		Total Estimated Emergency Repairs:	\$0.00
PE Emergency Repair % :	0%	PE Emergency Repair Amount:	\$0.00
CE Emergency Repair % :	0%	CE Emergency Repair Amount:	\$0.00
		Emergency Repair Total:	\$0.00
Permanent Repair Cost Estimate		Total Estimated Permanent Repair:	\$2,926,800.00
Preliminary Engineering % :	10%	Preliminary Engineering Cost:	\$292,680.00
Construction Engineering % :	15%	Construction Engineering Cost:	\$439,020.00
		Right Of Way Amount:	\$0.00
		Permanent Repair Total:	\$3,658,500.00
Federal Share of Payable Permanent Repair % :	80%	Federal Share of Payable Permanent Repair Amt:	\$2,926,800.00
		Total DDIR Amount:	\$3,658,500.00
Total Federal Share of Payable Emergency Repairs & Permanent Repairs:			\$2,926,800.00

Repeat Repair Site: No	Concurrent Repair: No	Project Status: In Design
Resiliency Items Included: No	Non-Competitively Bid:	
Betterment Included: No	Environmental Assessment Recommendation: Programmatic Categorical Exclusion (PCE)	
Explanations & Justifications:		

Approvals

Step Name	Date	Status	Approver	Comments
FHWA Regional Coordinator Review	12/21/2023	Approved	Pritesh Mehta	DDIR was approved on 12/21/2023 Pritesh Mehta FHWA AR Div
Sub-applicant Supervisor Review	12/21/2023	Approved	Michael Kelly	Permanent Repair Total \$3,658,500.00 Federal Share of Payable Perm Repair 80% Federal Share Payable Perm Rpr Amt ERFA \$2,926,800.00 Total DDIR Amount \$3,658,500.00 Total Federal Share of Payable ER & PR \$2,926,800.00
Approval Request Submitted	12/21/2023	Submitted	Jamie Belcourt	

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM
FEDERAL LANDS HIGHWAY
EMERGENCY RELIEF FOR FEDERAL AID (ERFA)
DETAILED DAMAGE INSPECTION REPORT (DDIR)

Disaster No: AR2023-1
Sheet: 2 of 6
Report Name:
ER231-19-42-3
Status: Active Eligible
Version No: 5
Version Date: 12/14/2023

Damage Details

Inspection Date: 12/14/2023

Description and Cause of Damage:

Partial embankment failures approx. 2600' along the front slope of the highway

Scope of work:

Repair the embankment failure by removing material and replacing with rock buttress.

Comments:

Damage Type(s)

Embankment Collapse – Partial

Primary Damage Feature: Shoulder

Primary Damage Feature Condition: Structural Integrity Concerns

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM
 FEDERAL LANDS HIGHWAY
 EMERGENCY RELIEF FOR FEDERAL AID (ERFA)
 DETAILED DAMAGE INSPECTION REPORT (DDIR)

Disaster No: AR2023-1
 Sheet: 3 of 6
Report Name:
ER231-19-42-3
Status: Active Eligible
 Version No: 5
 Version Date: 12/14/2023

Repair Costs Details

Emergency Repair Cost Estimate

Pay Item Code	Pay Item Description	Unit	Unit Price	Quantity	Cost	% Complete
Emergency Repair Method:					Total Estimated Emergency Repair Items:	\$0.00

Permanent Repair Cost Estimate

Pay Item Code	Pay Item Description	Unit	Unit Price	Quantity	Cost	% Complete
210	Unclassified Excavation	CUYD	\$20.00	34400.00	\$688,000.00	0
625	Type 5 Fabric	SQYD	\$4.00	36000.00	\$144,000.00	0
630	Rock Buttress	CUYD	\$42.00	34400.00	\$1,444,800.00	0
	Paving, MOT, & Mobilization	LF	\$100.00	6500.00	\$650,000.00	0
Permanent Repair Method:					Total Estimated Permanent Repair Items:	\$2,926,800.00

Location

Coordinates

Name	Coordinate Type	Description	Latitude	Longitude
AR 2023-01	Default		34.951300000	-92.380900000
ER231-19-42-3	Primary		35.362964	-90.625415

Supporting Information



File Name	Coordinate Type	Description
20230418_130045		

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM
FEDERAL LANDS HIGHWAY
EMERGENCY RELIEF FOR FEDERAL AID (ERFA)
DETAILED DAMAGE INSPECTION REPORT (DDIR)

Disaster No: AR2023-1
Sheet: 4 of 6
Report Name:
ER231-19-42-3
Status: Active Eligible
Version No: 5
Version Date: 12/14/2023



File Name	Coordinate Type	Description
20230418_130038		

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM
FEDERAL LANDS HIGHWAY
EMERGENCY RELIEF FOR FEDERAL AID (ERFA)
DETAILED DAMAGE INSPECTION REPORT (DDIR)

Disaster No: AR2023-1
Sheet: 5 of 6
Report Name:
ER231-19-42-3
Status: Active Eligible
Version No: 5
Version Date: 12/14/2023



File Name	Coordinate Type	Description
20230418_130216		

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM
 FEDERAL LANDS HIGHWAY
 EMERGENCY RELIEF FOR FEDERAL AID (ERFA)
 DETAILED DAMAGE INSPECTION REPORT (DDIR)

Disaster No: AR2023-1
 Sheet: 6 of 6
Report Name:
ER231-19-42-3
Status: Active Eligible
 Version No: 5
 Version Date: 12/14/2023



File Name	Coordinate Type	Description
20230418_130228		

Notes and Attachments

Title	Description	Created Date	Modified Date
Hwy 42 Sec 3 D01302_Slide Repair Quantities and Cost_2023-06-15		12/14/2023	12/14/2023
20230418_130045		12/14/2023	12/14/2023
20230418_130038		12/14/2023	12/14/2023
20230418_130216		12/14/2023	12/14/2023
20230418_130228		12/14/2023	12/14/2023

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM FEDERAL LANDS HIGHWAY EMERGENCY RELIEF FOR FEDERAL AID (ERFA) DETAILED DAMAGE INSPECTION REPORT (DDIR)	Disaster No: AR2023-1 Sheet: 1 of 3 Report Name: ER231-19-75-3 Status: Pending Version No: 4 Version Date: 12/14/2023
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Applicant: Arkansas DOT		Sub-Applicant:	Region District: District 1
County:	Congressional District: 1	Federal-aid Route #: 75-3	Mile Post: 0.50 - 0.75
Facility Name: Hwy 75 Sec 3		Facility #: 75	Functional Class: FC 5 -- Major Collector
Federal Project # ER:		Federal Project # PR:	Financial #:
State Project # ER:		State Project # PR:	

Facility Data

Facility Type: Road	Travel Way Width: 20	Surface Type: Asphalt	Thickness:
ADT: 260	Shoulder Width: 4	Shoulder Type: Gravel	Thickness:
Bridge Type:	Bridge ID:		

DDIR Cost Summary

Emergency Repair Cost Estimate		Total Estimated Emergency Repairs:	\$0.00
PE Emergency Repair % :	0%	PE Emergency Repair Amount:	\$0.00
CE Emergency Repair % :	0%	CE Emergency Repair Amount:	\$0.00
		Emergency Repair Total:	\$0.00
Permanent Repair Cost Estimate		Total Estimated Permanent Repair:	\$1,529,250.00
Preliminary Engineering % :	10%	Preliminary Engineering Cost:	\$152,925.00
Construction Engineering % :	15%	Construction Engineering Cost:	\$229,387.50
		Right Of Way Amount:	\$0.00
		Permanent Repair Total:	\$1,911,562.50
Federal Share of Payable Permanent Repair % :	80%	Federal Share of Payable Permanent Repair Amt:	\$1,529,250.00
		Total DDIR Amount:	\$1,911,562.50
Total Federal Share of Payable Emergency Repairs & Permanent Repairs:			\$1,529,250.00

Repeat Repair Site: No	Concurrent Repair: No	Project Status: In Design
Resiliency Items Included: No	Non-Competitively Bid: No	
Betterment Included: No	Environmental Assessment Recommendation: Programmatic Categorical Exclusion (PCE)	
Explanations & Justifications:		

Approvals

Step Name	Date	Status	Approver	Comments
Sub-applicant Supervisor Review	12/21/2023	Approved	Pritesh Mehta	I have signed the DDIR. date 12/21/2023 Pritesh Mehta FHWA AR Div
FHWA Regional Coordinator Review	12/21/2023	Pending	Sergio Mayorga	
Approval Request Submitted	12/21/2023	Submitted	Michael Kelly	Below are the costs associated with this DDIR Permanent Repair Total \$1,911,562.50 Federal Share of Payable Perm Repair 80% Federal Share Payable Perm Rpr Amt ERFA \$1,529,250.00 Total DDIR Amount \$1,911,562.50 Total Federal Share of Payable ER & PR \$1,529,250.00

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM
FEDERAL LANDS HIGHWAY
EMERGENCY RELIEF FOR FEDERAL AID (ERFA)
DETAILED DAMAGE INSPECTION REPORT (DDIR)

Disaster No: AR2023-1
Sheet: 2 of 3
Report Name:
ER231-19-75-3
Status: Pending
Version No: 4
Version Date: 12/14/2023

Damage Details	Inspection Date:12/14/2023
Description and Cause of Damage: Partial embankment failures along both foreslope of highway approx. 300' long (600' total)	
Scope of work: Stabilize embankment by installing sheet piling and backfilling with select material.	
Comments:	

Damage Type(s) Embankment Collapse – Partial	
Primary Damage Feature: Embankment	Primary Damage Feature Condition: Structural Integrity Concerns

FEDERAL HIGHWAY ADMINISTRATION TITLE 23 EMERGENCY RELIEF PROGRAM
 FEDERAL LANDS HIGHWAY
 EMERGENCY RELIEF FOR FEDERAL AID (ERFA)
 DETAILED DAMAGE INSPECTION REPORT (DDIR)

Disaster No: AR2023-1
 Sheet: 3 of 3
Report Name:
ER231-19-75-3
Status: Pending
 Version No: 4
 Version Date: 12/14/2023

Repair Costs Details

Emergency Repair Cost Estimate

Pay Item Code	Pay Item Description	Unit	Unit Price	Quantity	Cost	% Complete
Emergency Repair Method:					Total Estimated Emergency Repair Items:	\$.00

Permanent Repair Cost Estimate

Pay Item Code	Pay Item Description	Unit	Unit Price	Quantity	Cost	% Complete
	Sheet Pile	SQFT	\$50.00	28800.00	\$1,440,000.00	0
	Select Granular Backfill Material	CUYD	\$65.00	450.00	\$29,250.00	0
	Paving, MOT, & Mobilization	LF	\$100.00	600.00	\$60,000.00	0
Permanent Repair Method:					Total Estimated Permanent Repair Items:	\$1,529,250.00

Location

Coordinates

Name	Coordinate Type	Description	Latitude	Longitude
AR 2023-01	Default		34.951300000	-92.380900000
ER231-19-75-3	Primary		35.284424	-90.576415

Supporting Information



File Name	Coordinate Type	Description
Hwy75		

Notes and Attachments

Title	Description	Created Date	Modified Date
Hwy75		12/14/2023	12/14/2023
Hwy 75 Sec 3D01302_Slide Repair Quantities and Cost_2023-06-15		12/14/2023	12/14/2023