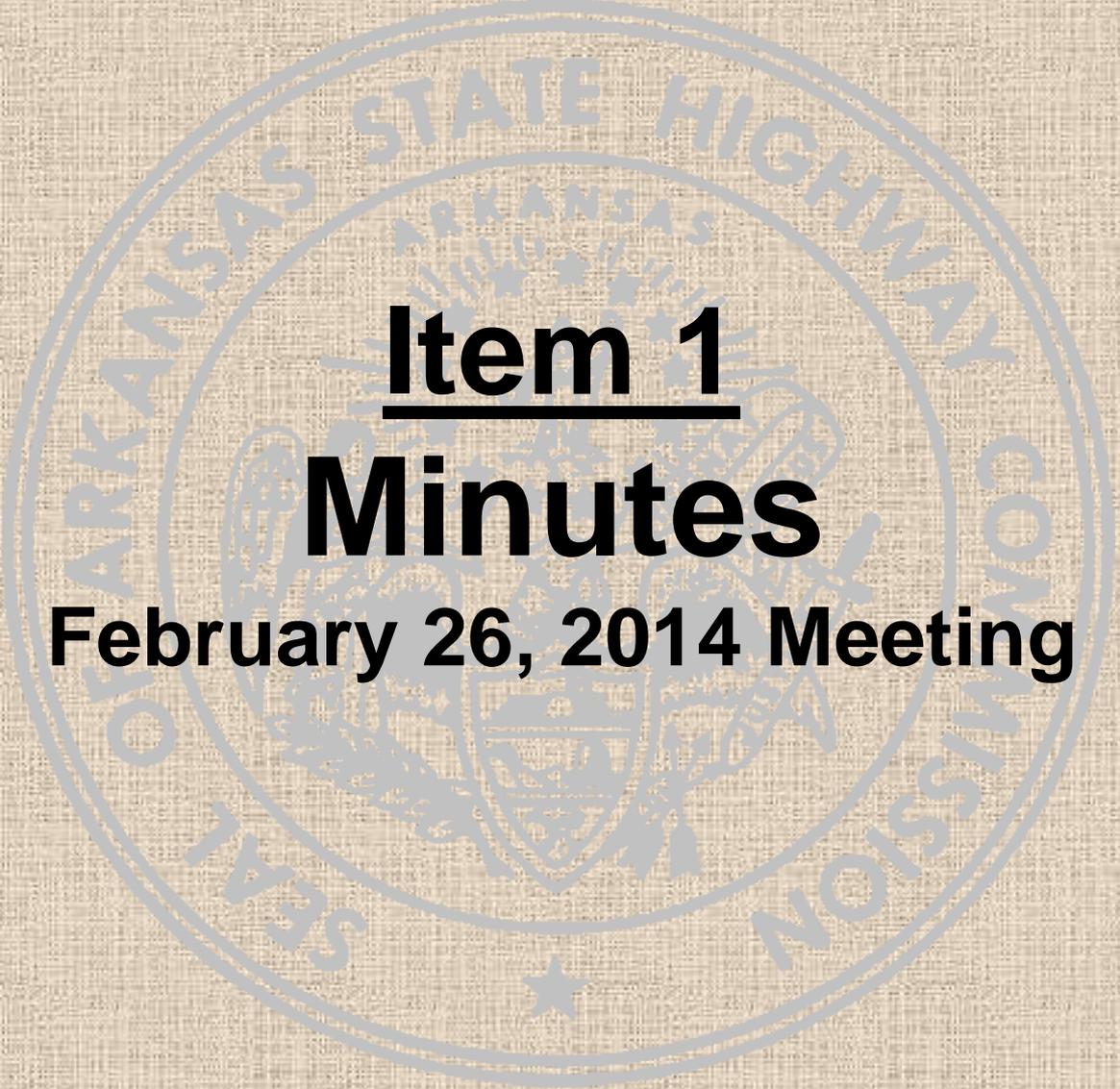


The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and a central emblem with a star and other symbols.

Arkansas State Highway Commission Meeting

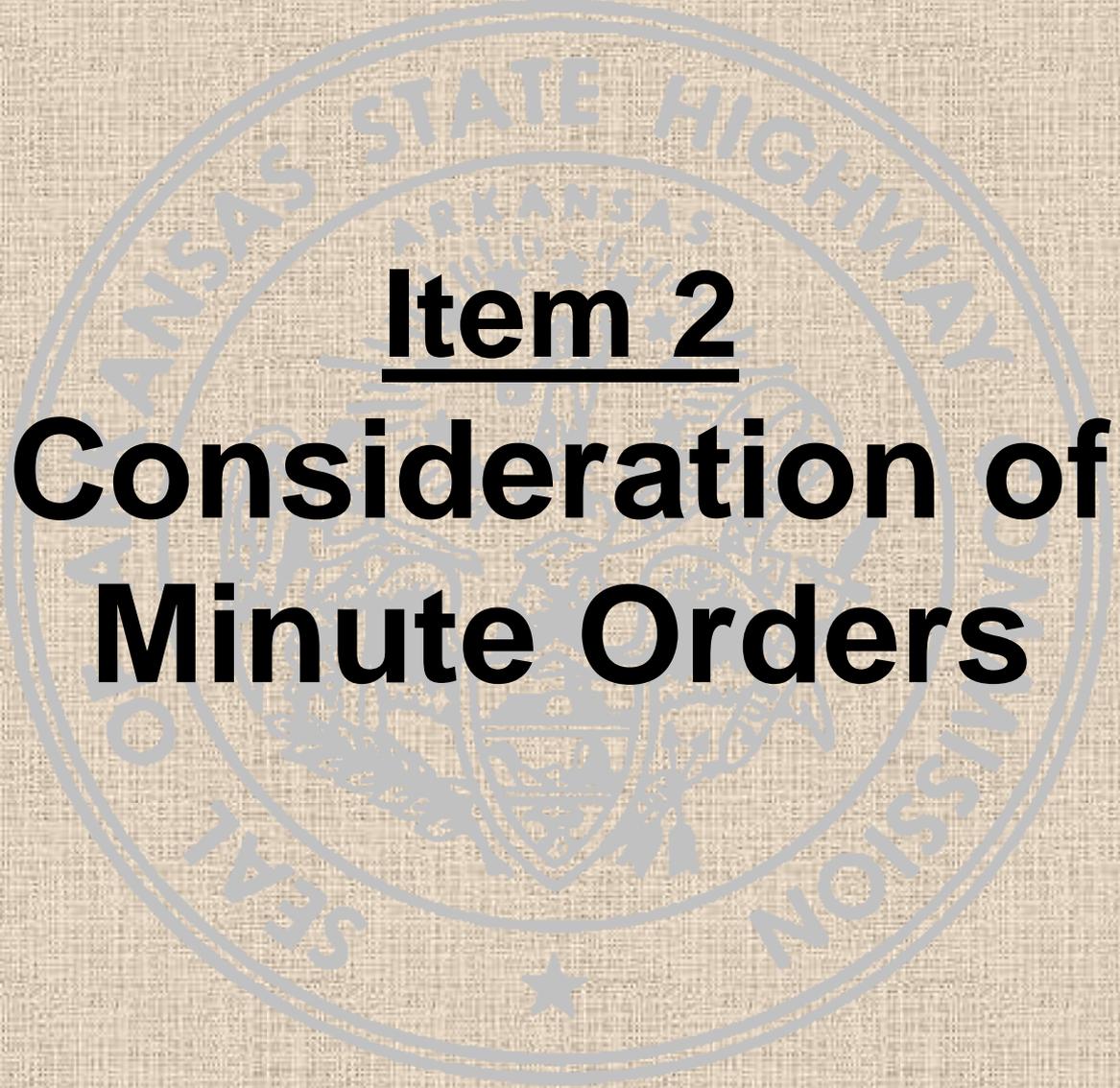
Wednesday, April 16, 2014

The background of the slide features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "SEAL OF ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and a central emblem with a shield and stars.

Item 1

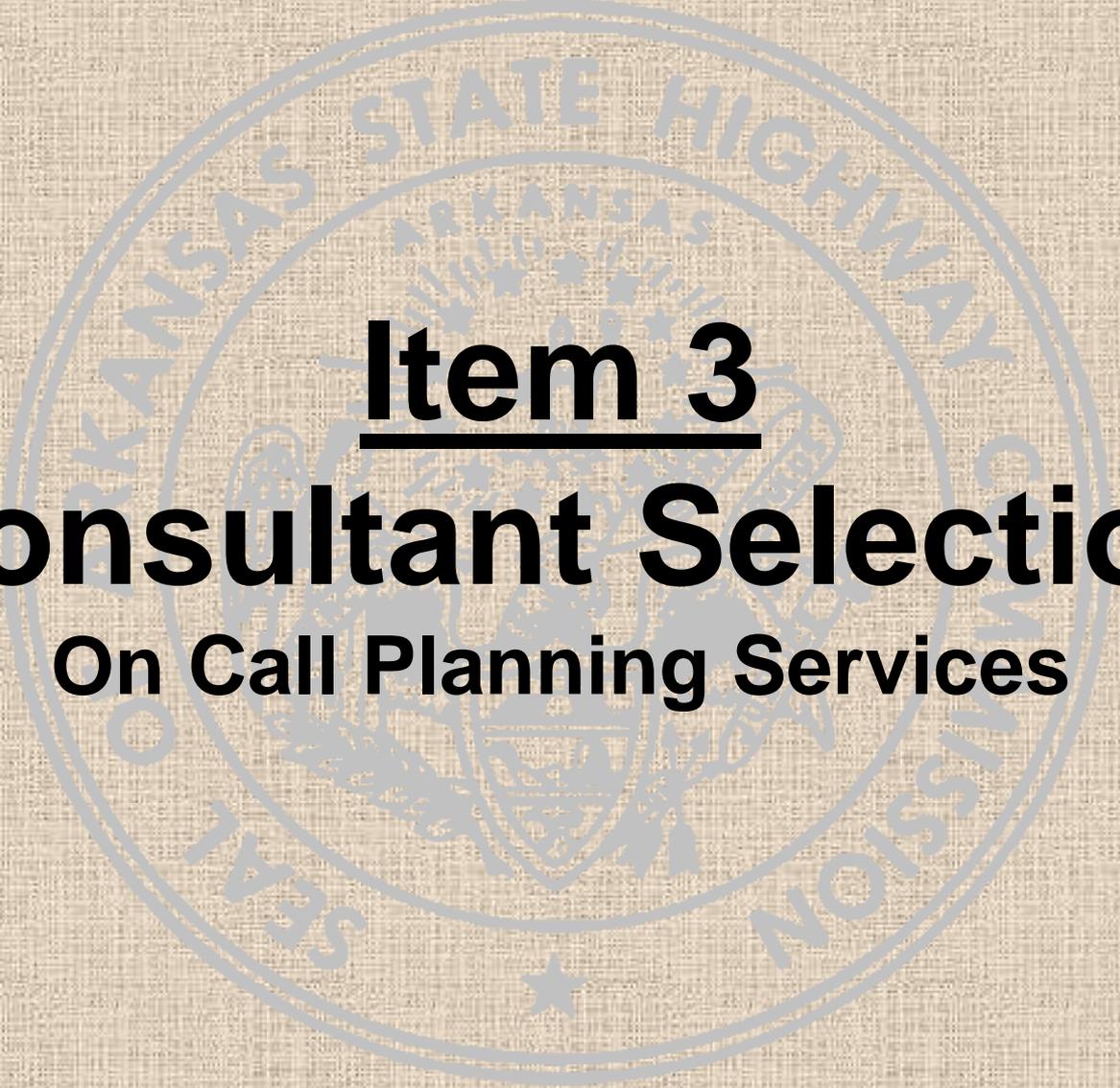
Minutes

February 26, 2014 Meeting

The background of the slide features a large, light-colored watermark of the Seal of the Arkansas State Highway Commission. The seal is circular and contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter. In the center, there is a shield with a plow and a sheaf of wheat, and the word "ARKANSAS" is written above it. A five-pointed star is positioned at the bottom center of the seal.

Item 2

**Consideration of
Minute Orders**

The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and a central emblem with a shield and stars.

Item 3

Consultant Selection

On Call Planning Services

The background of the slide features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and "ARKANSAS" in the center. In the center of the seal is a smaller emblem with a star and the word "ESTABLISHED 1923".

Item 4

Consultant Selection

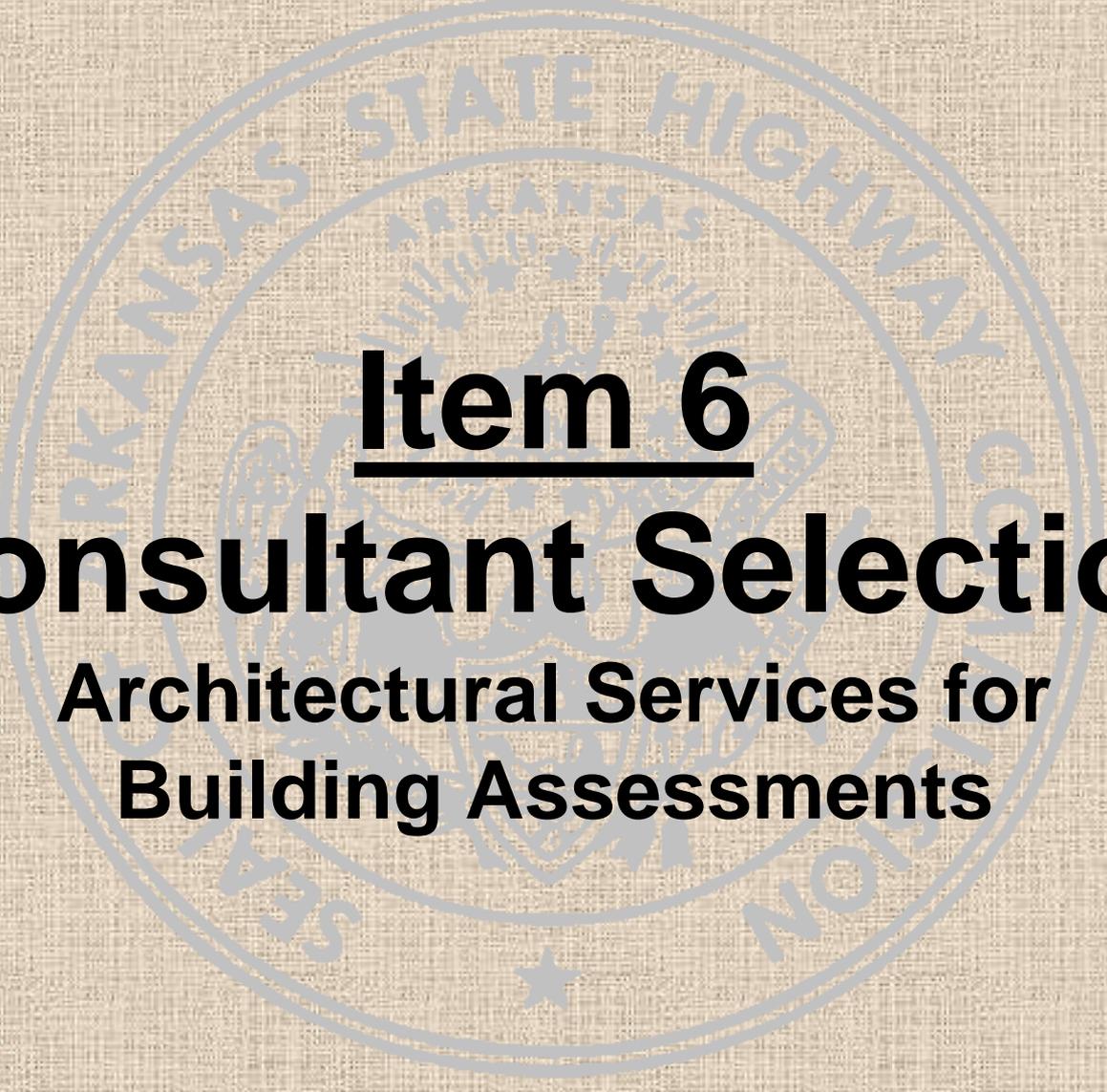
Architectural Services for
Welcome Centers

The background of the slide features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and "ARKANSAS" in the center. In the center of the seal is a smaller emblem with a star and the word "ESTABLISHED" above it.

Item 5

Consultant Selection

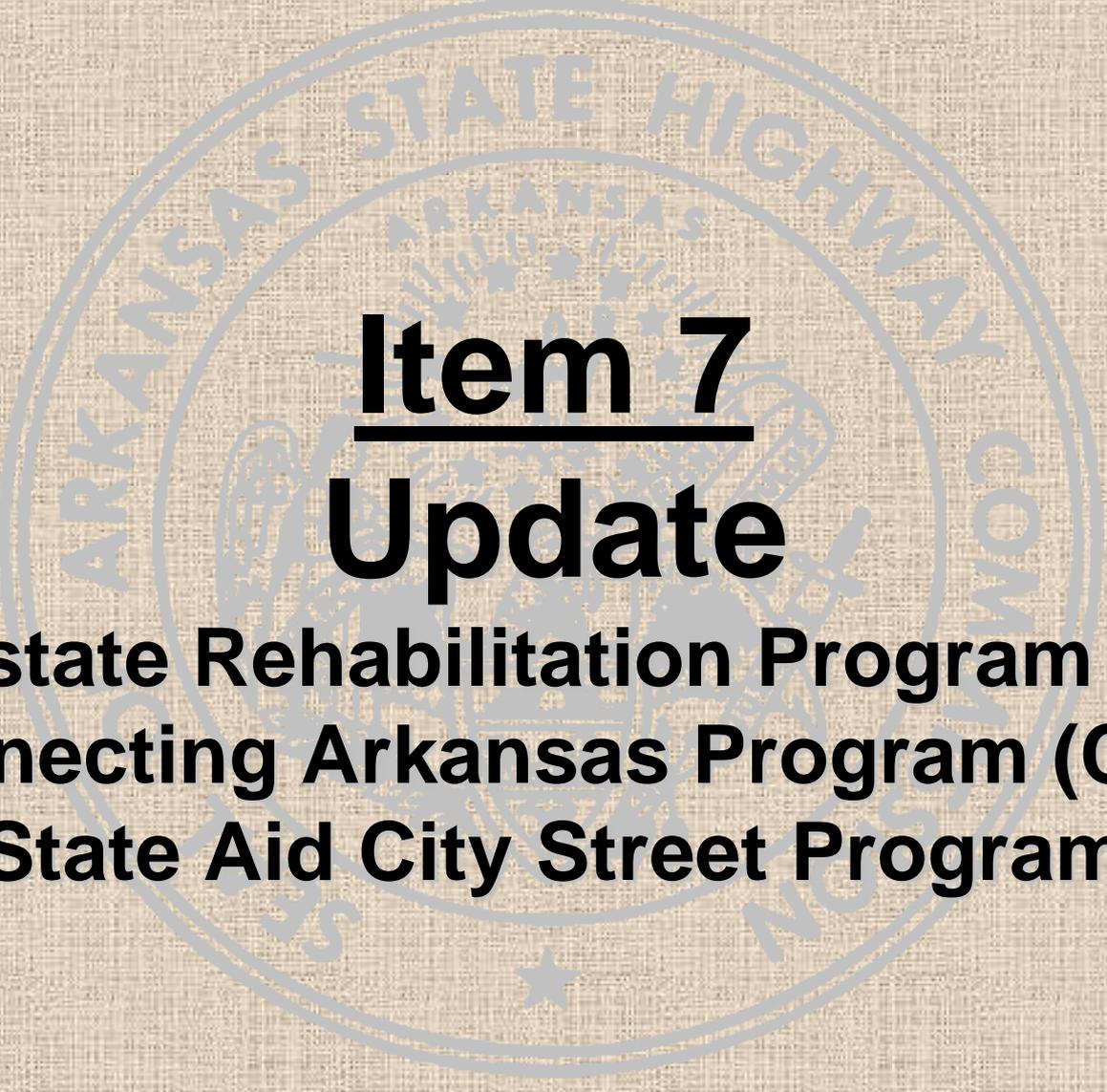
**Architectural Services for
Tourist Information Centers**

The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and "ARKANSAS" in the center. In the center of the seal is a smaller emblem with a star and the date "EST. 1923".

Item 6

Consultant Selection

Architectural Services for
Building Assessments

The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and "ARKANSAS" in the center. In the center of the seal is a smaller emblem with a star and the word "COMMISSION".

Item 7

Update

Interstate Rehabilitation Program (IRP)
Connecting Arkansas Program (CAP)
State Aid City Street Program

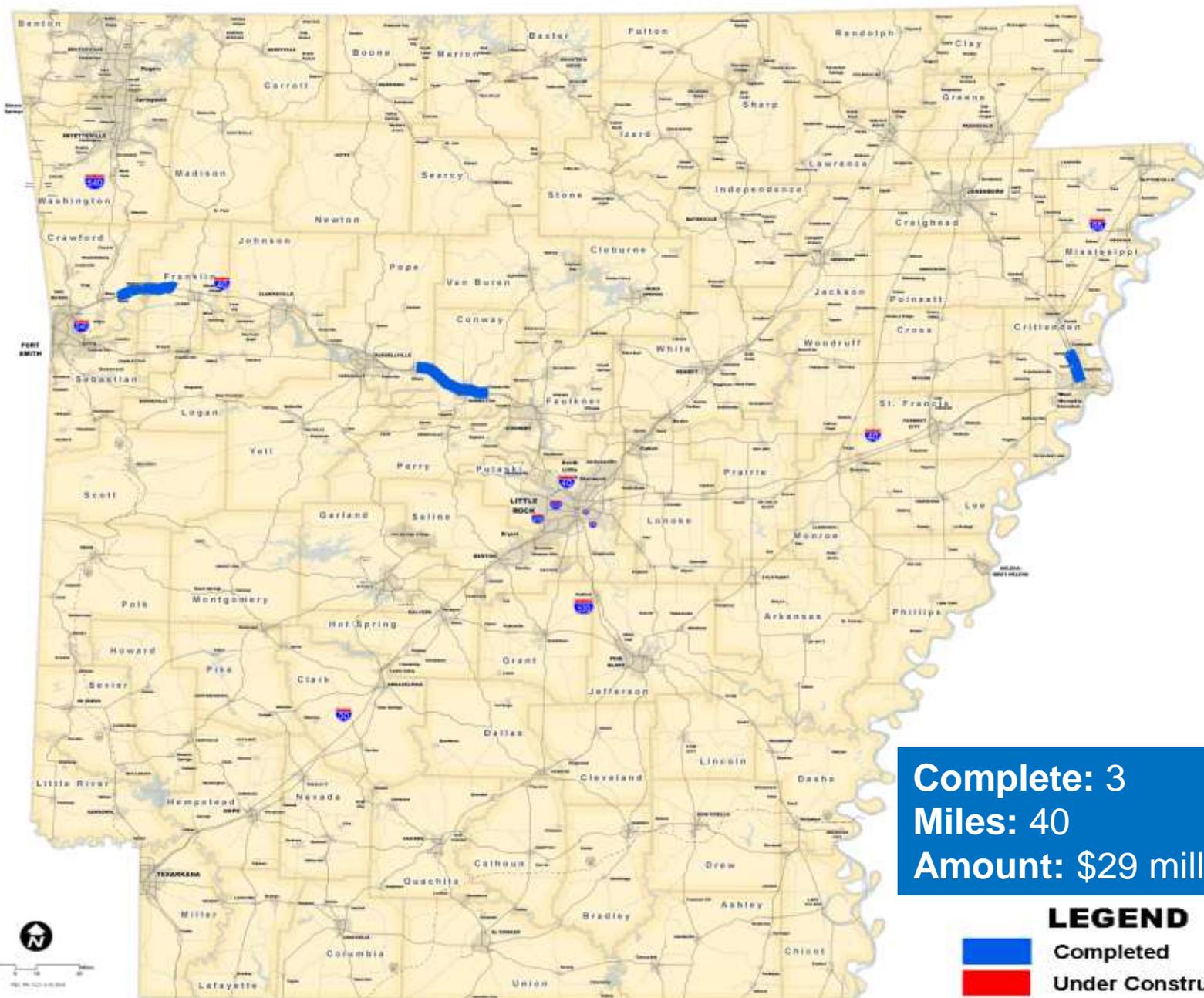


INTERSTATE
REHABILITATION
PROGRAM

IRP



Interstate Rehabilitation Program Job Status

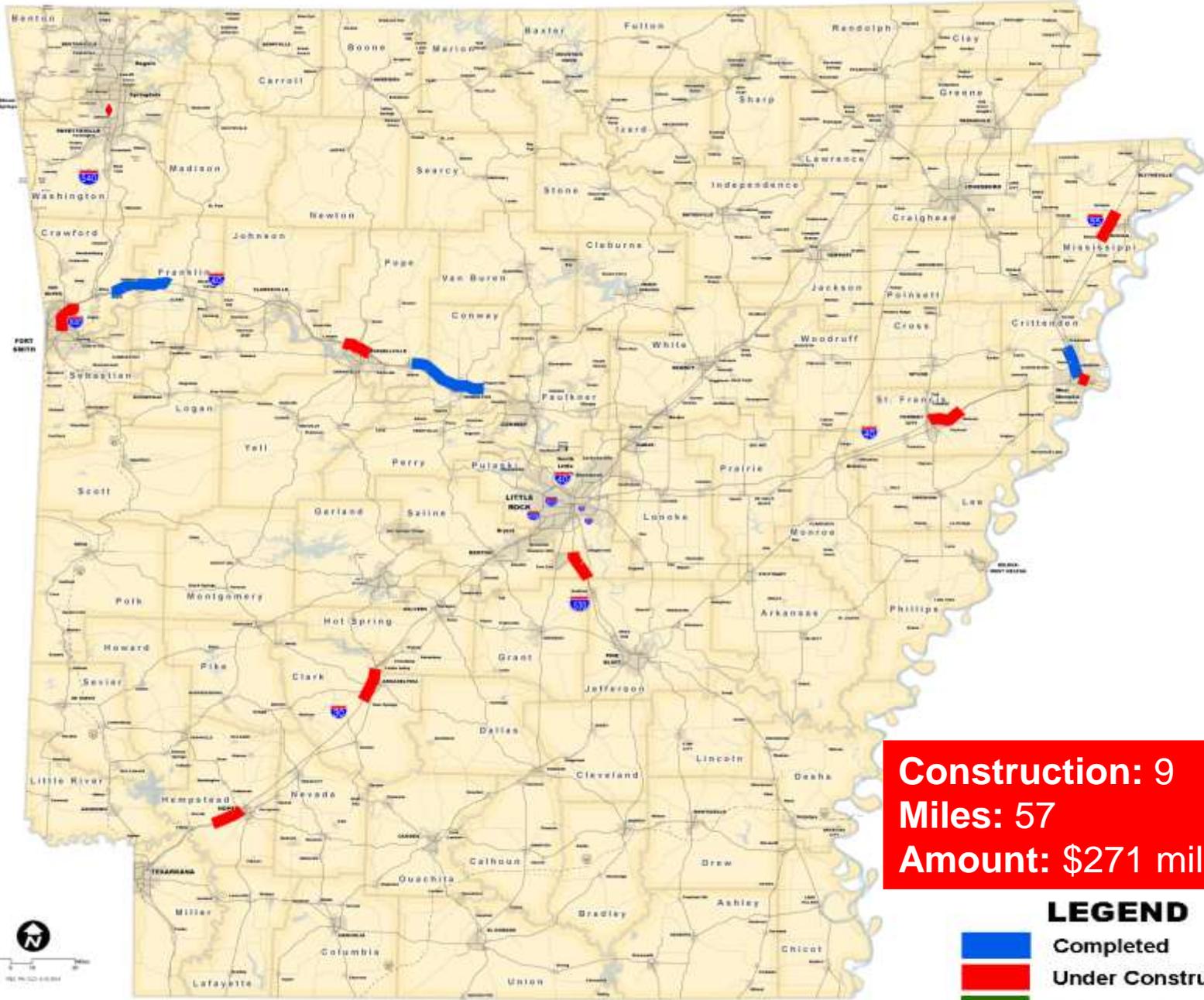


Complete: 3
Miles: 40
Amount: \$29 million

LEGEND	
	Completed
	Under Construction
	Scheduled



Interstate Rehabilitation Program Job Status



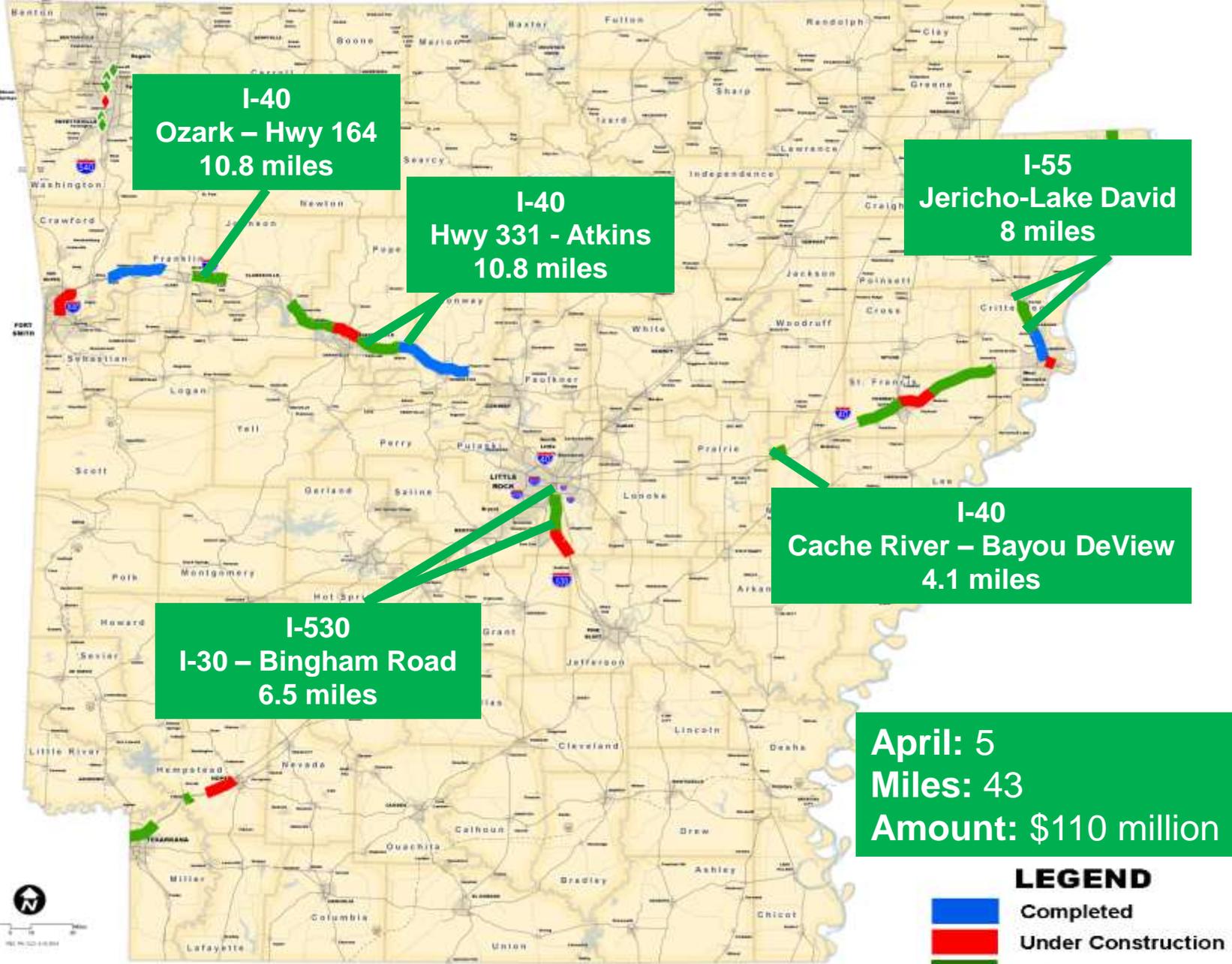
**Construction: 9
Miles: 57
Amount: \$271 million**

LEGEND

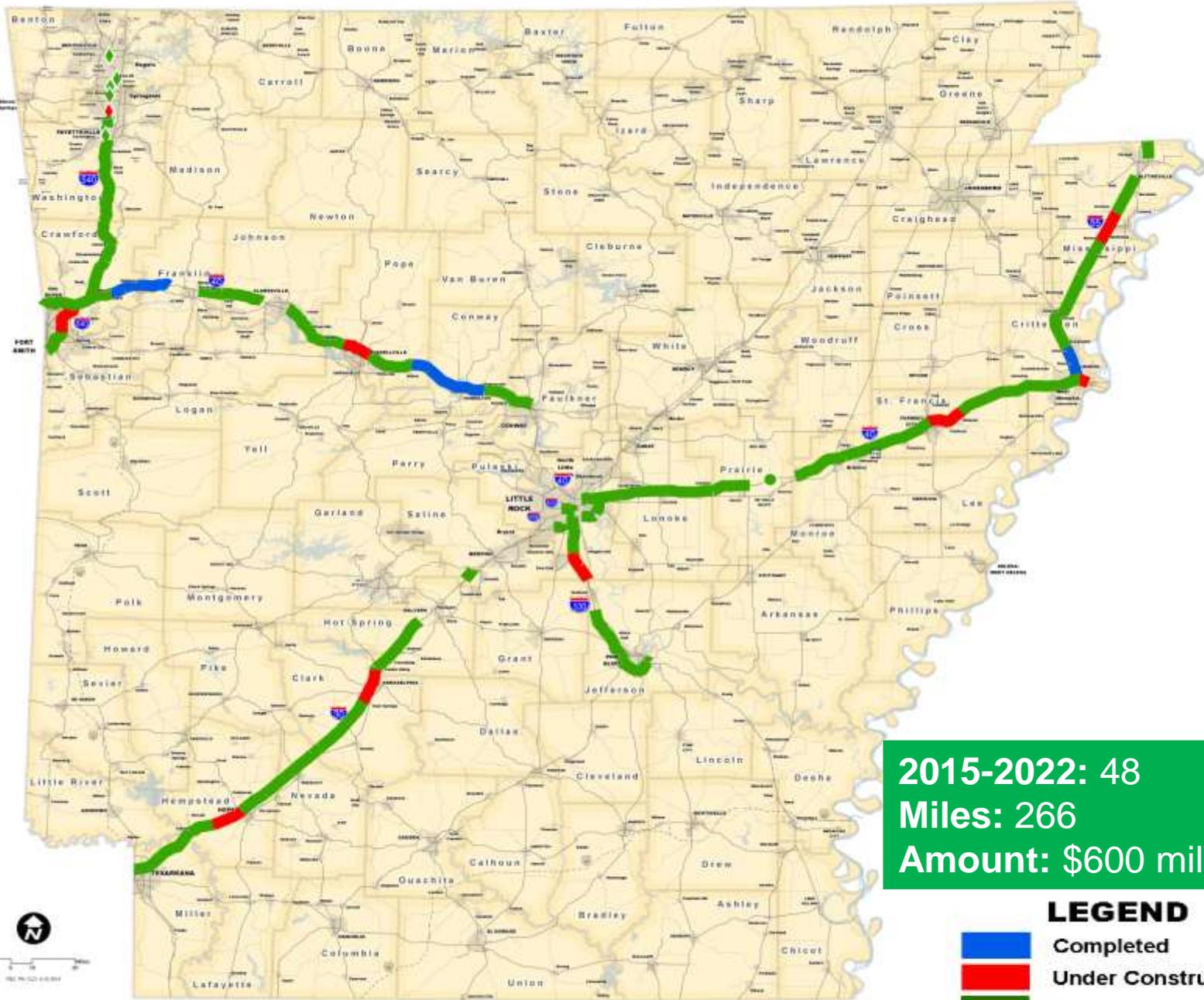
-  Completed
-  Under Construction
-  Scheduled



Interstate Rehabilitation Program
Job Status



Interstate Rehabilitation Program Job Status



**2015-2022: 48
Miles: 266
Amount: \$600 million**

LEGEND

-  Completed
-  Under Construction
-  Scheduled



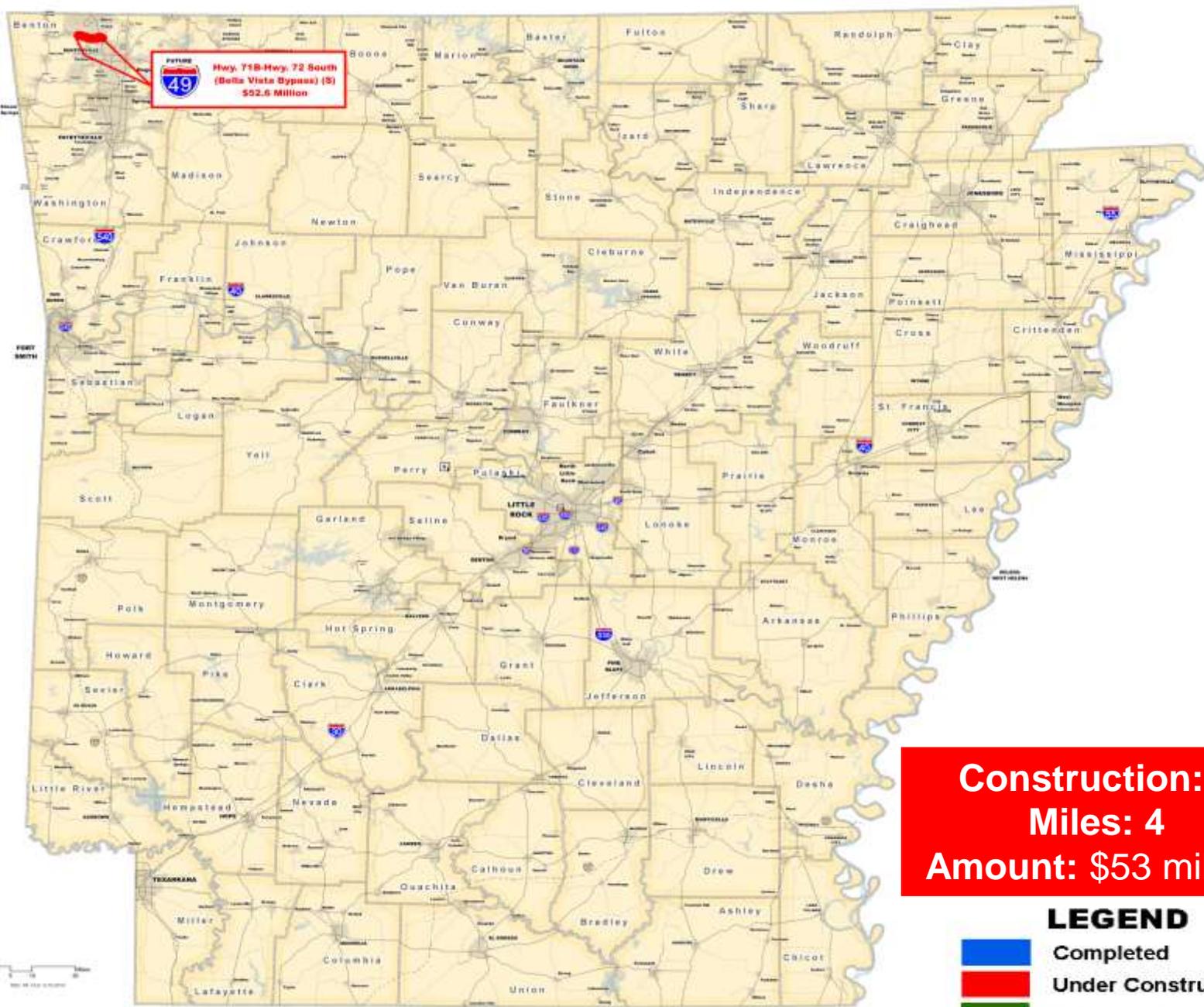


CONNECTING
ARKANSAS
PROGRAM

CAP



Connecting Arkansas Program Under Construction



Future
**Hwy. 71B-Hwy. 72 South
(Bella Vista Bypass) (S)**
\$52.6 Million

**Construction: 1
Miles: 4
Amount: \$53 million**

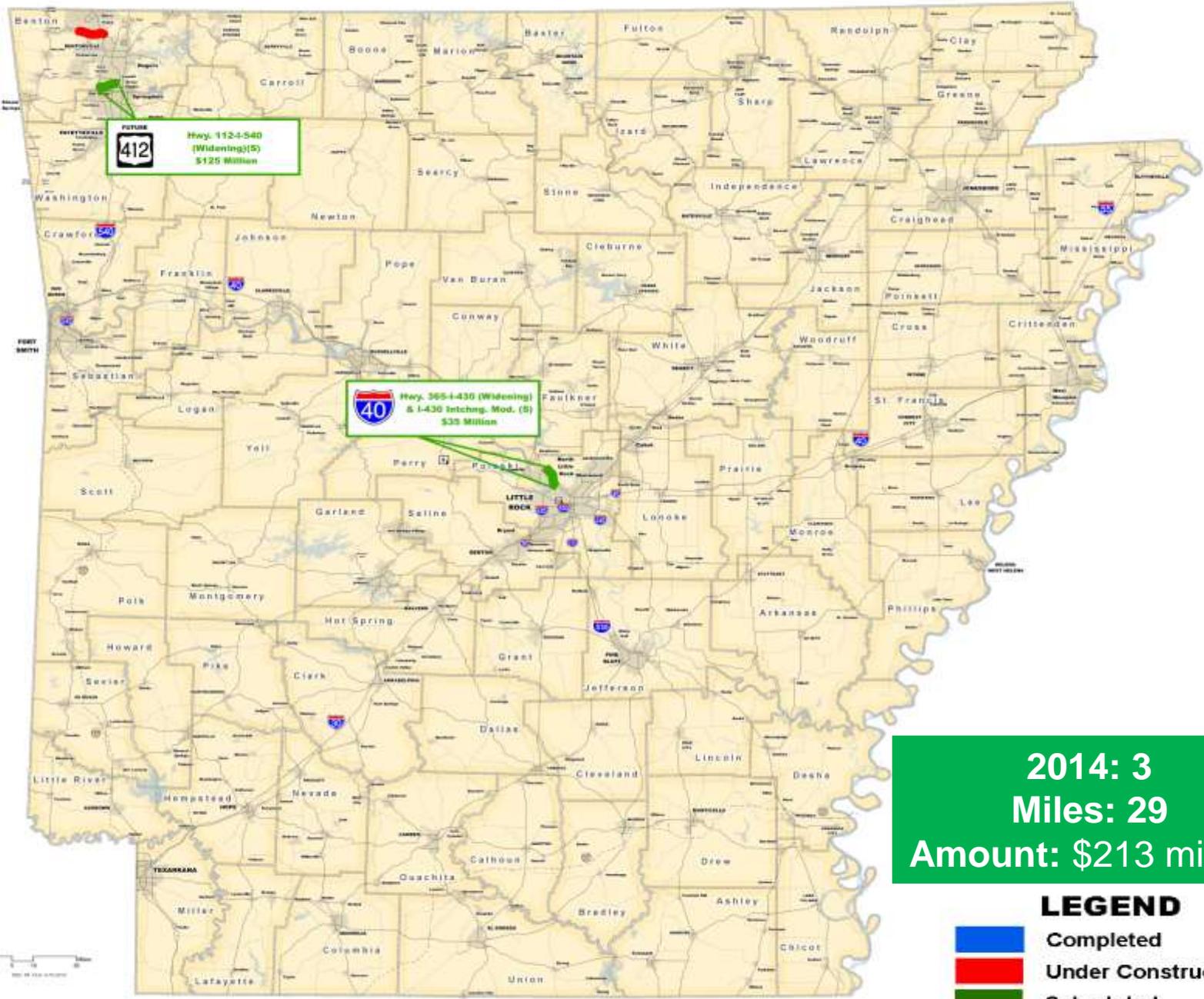
LEGEND

-  Completed
-  Under Construction
-  Scheduled



Connecting Arkansas Program

2014



2014: 3
Miles: 29
Amount: \$213 million

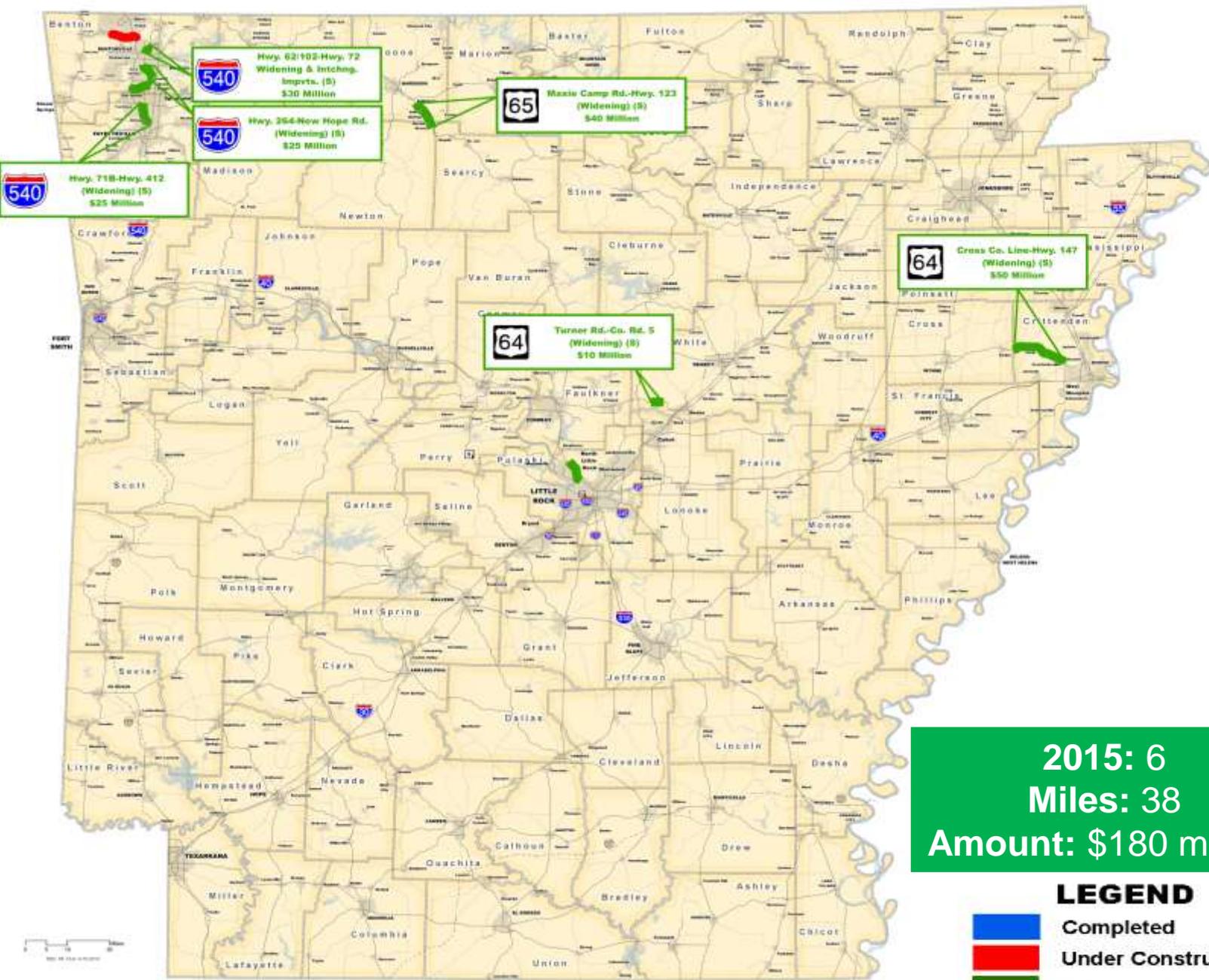
LEGEND

-  Completed
-  Under Construction
-  Scheduled



Connecting Arkansas Program

2015



**2015: 6
Miles: 38
Amount: \$180 million**

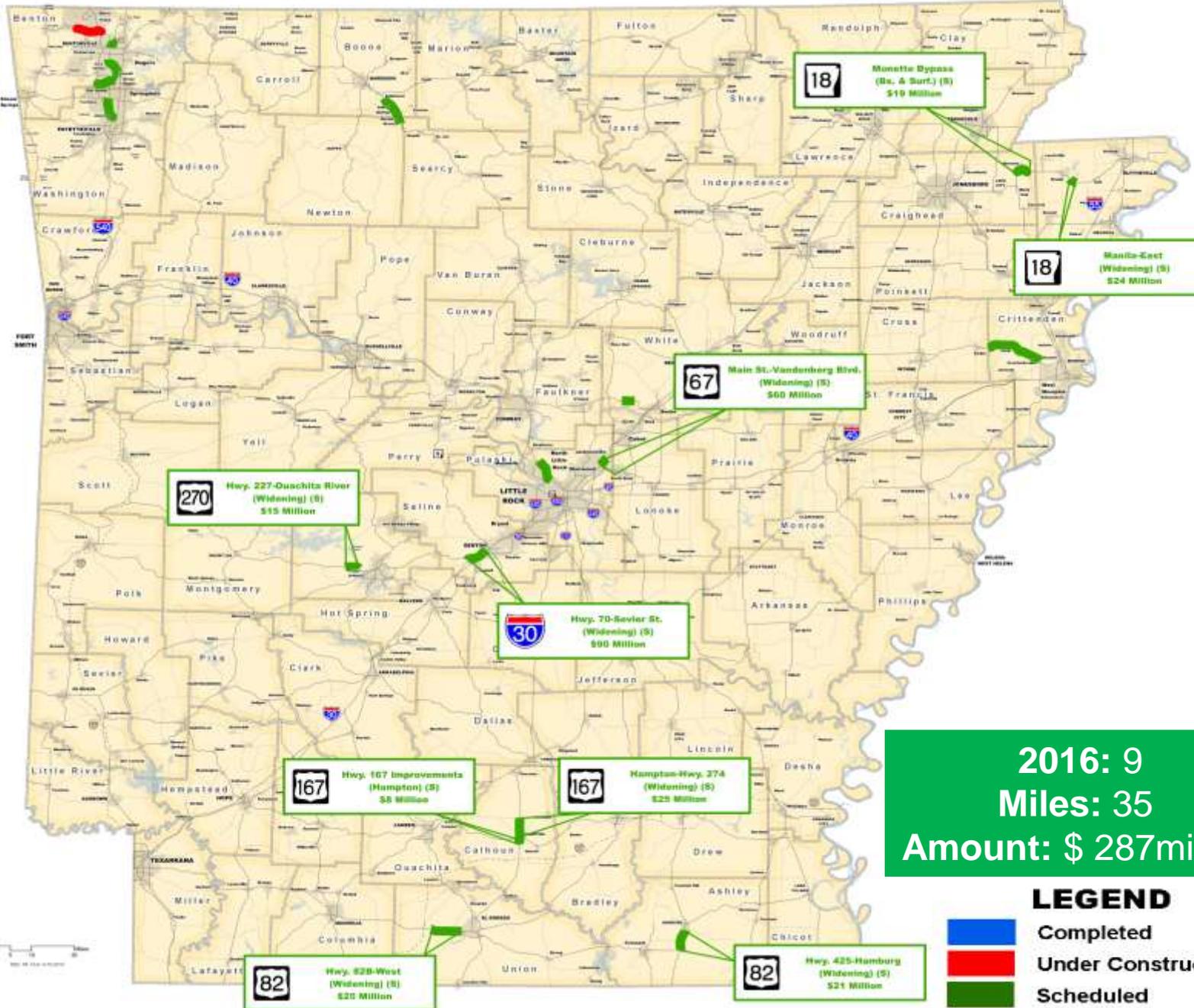
LEGEND

- Completed
- Under Construction
- Scheduled



Connecting Arkansas Program

2016



2016: 9
Miles: 35
Amount: \$ 287million

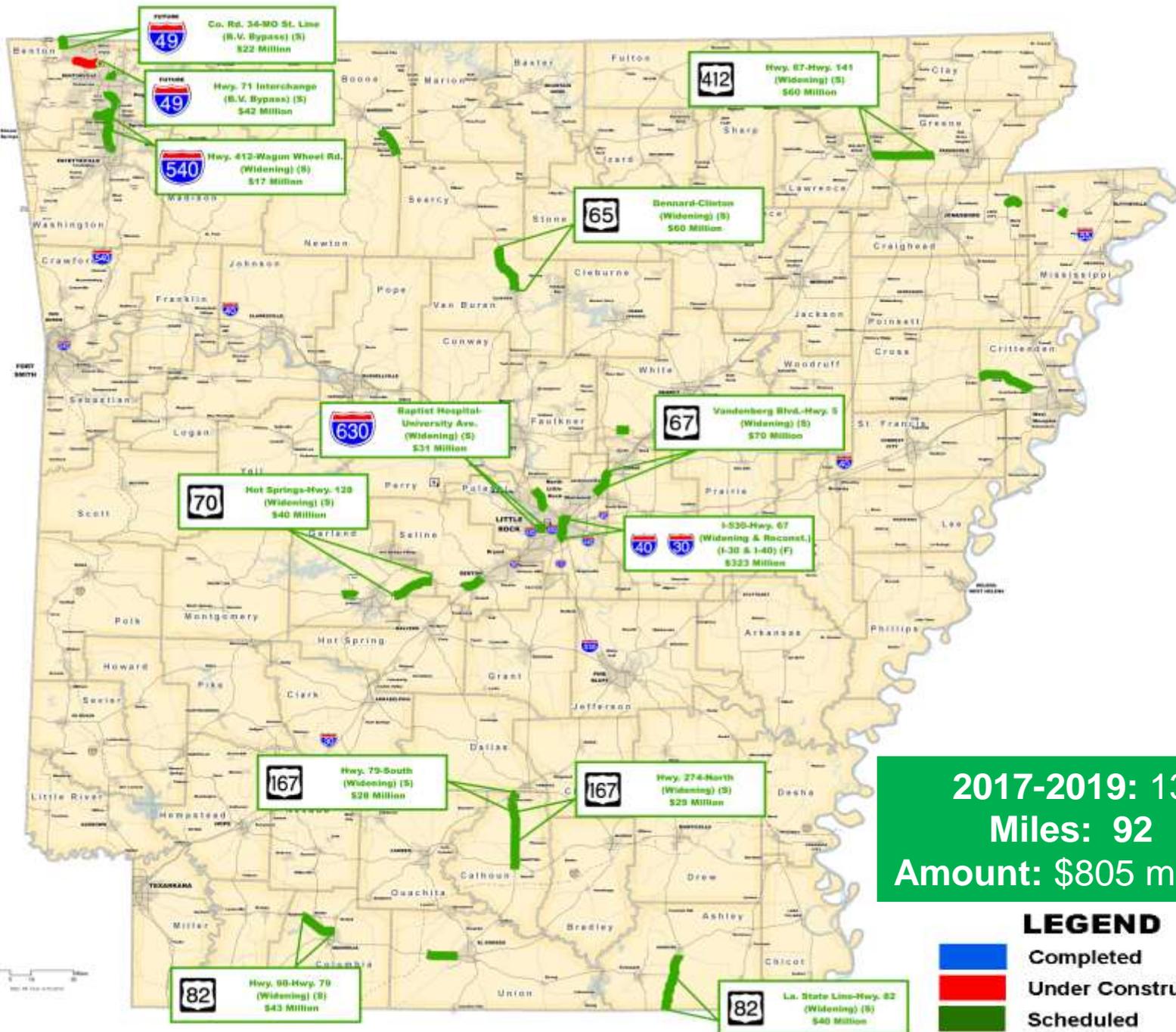
LEGEND

- Completed
- Under Construction
- Scheduled



Connecting Arkansas Program

2017-2019



**2017-2019: 13
Miles: 92
Amount: \$805 million**

LEGEND

- Completed
- Under Construction
- Scheduled

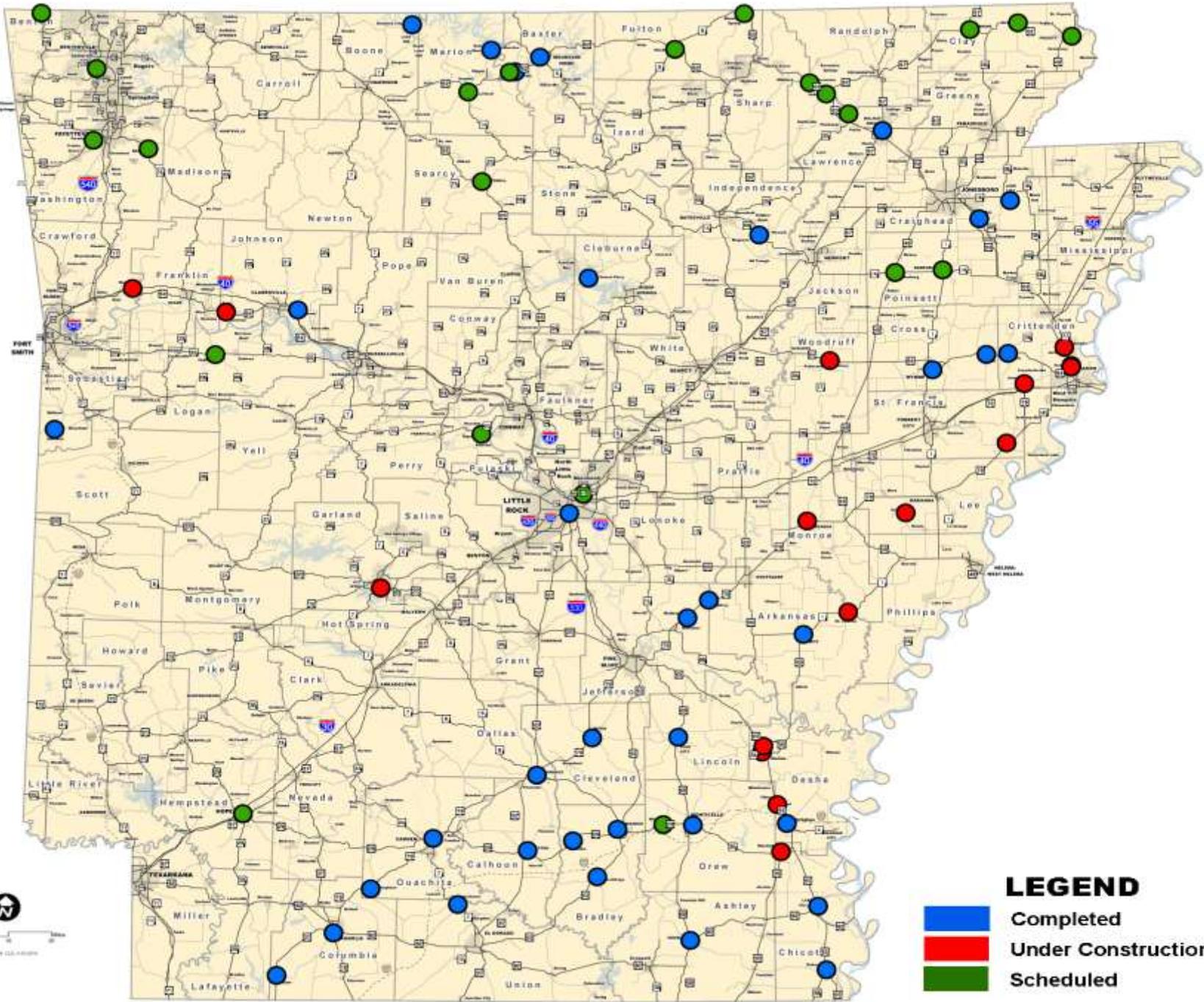




***State Aid
City Street Program***



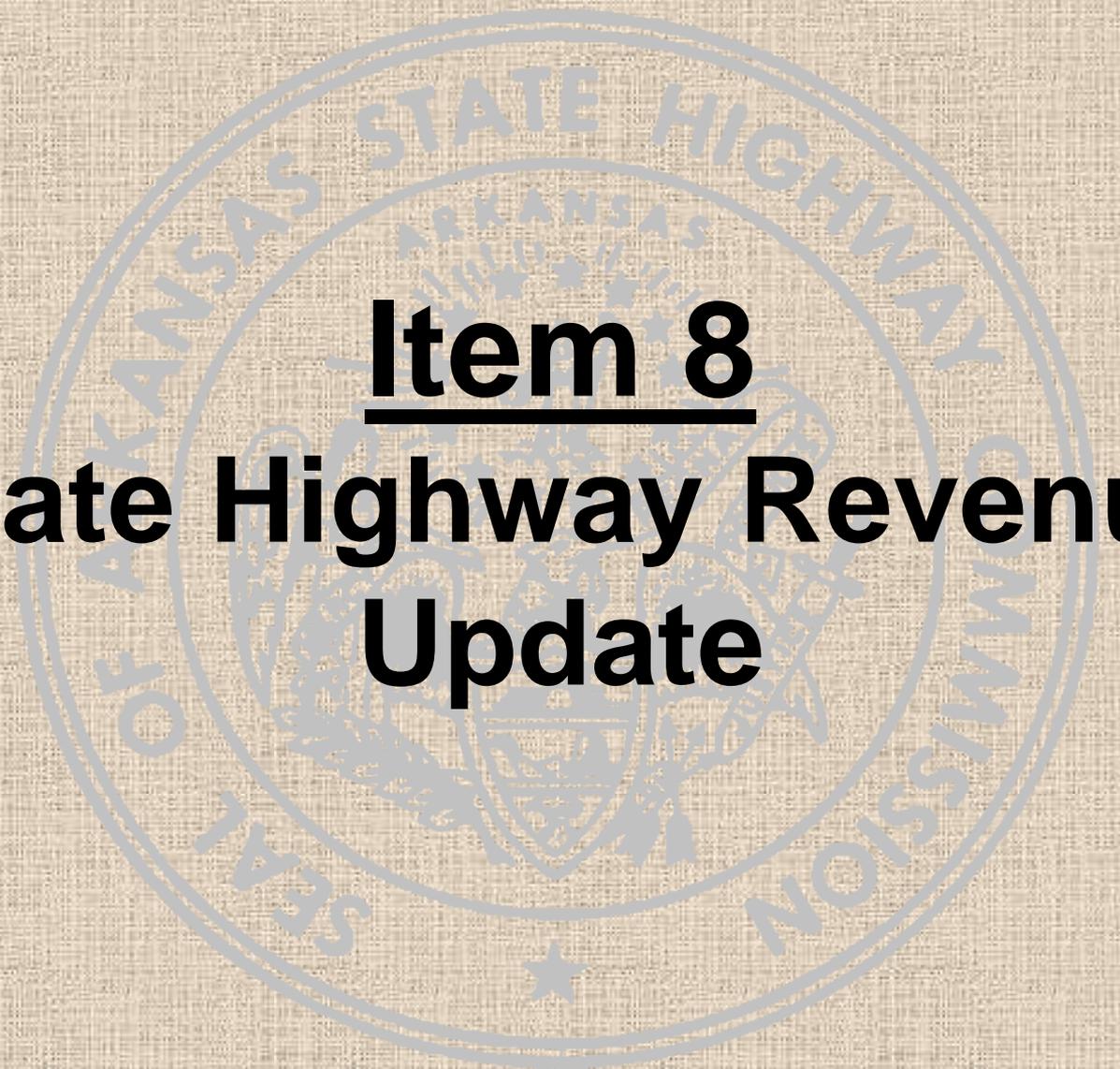
State-Aid Street Program



LEGEND

-  Completed
-  Under Construction
-  Scheduled



The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "SEAL OF ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and a central emblem with a shield and stars.

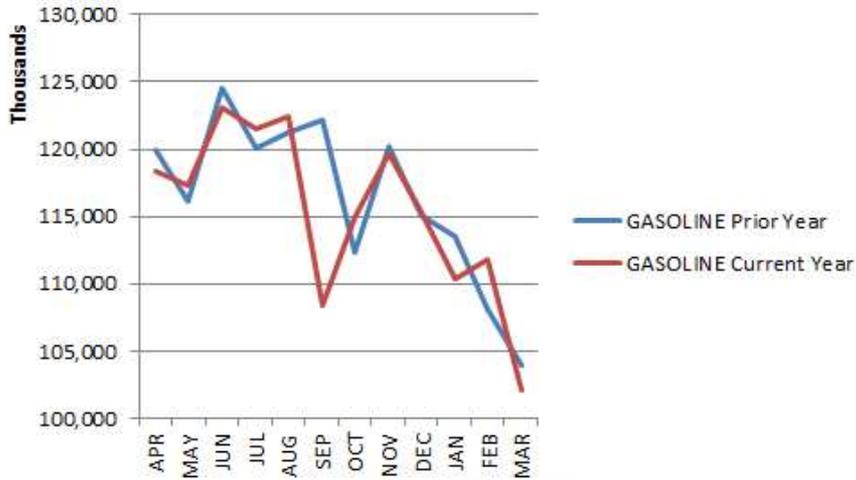
Item 8
**State Highway Revenue
Update**

March 2014 Revenues and Consumption

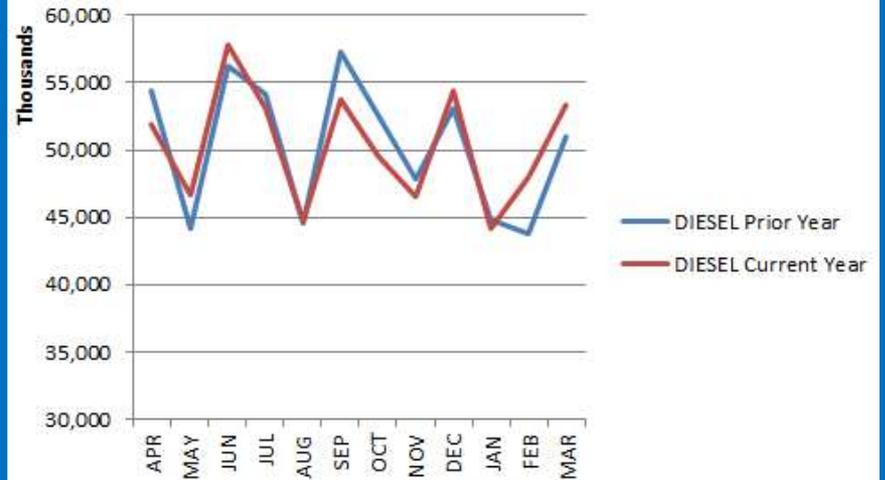
July - March	FY 2013	FY 2014	Variance	% Change
Motor Fuels Tax	\$202.4	\$197.7	(\$4.7)	-2.3%
Registration Fees	\$58.8	\$58.1	(\$0.7)	-1.2%
Permits & Penalties	\$13.6	\$12.7	(\$0.9)	-6.6%
Other	\$6.0	\$4.2	(\$1.8)	-30.0%
Total User Revenues	\$280.8	\$272.7	(\$8.1)	-2.9%
Natural Gas Severance Tax	\$22.6	\$33.3	\$10.7	47.4%
RRA Interest	\$2.4	\$2.5	\$0.1	4.2%
Less: Diesel Tax for Bonds	(\$12.2)	(\$12.1)	\$0.1	-0.8%
Total Revenues Available	\$293.6	\$296.4	\$2.8	1.0%
Fiscal 2014 Projected vs. Actual July - March	Budget (millions)	Actual (millions)	Variance (millions)	% Variance
Motor Fuels Tax	\$193.7	\$197.7	\$4.0	2.1%
Registration Fees	\$62.2	\$58.1	(\$4.1)	-6.6%
Permits & Penalties	\$13.6	\$12.7	(\$0.9)	-6.6%
Other	\$3.8	\$4.2	\$0.4	10.5%
Total User Revenues	\$273.3	\$272.7	(\$0.6)	-0.2%
Natural Gas Severance Tax	\$28.5	\$33.3	\$4.8	16.8%
RRA Interest	\$1.8	\$2.5	\$0.7	38.9%
Less: Diesel Tax for Bonds	(\$12.8)	(\$12.1)	\$0.7	-5.5%
Total Revenues Available	\$290.8	\$296.4	\$5.6	1.9%
Fuel Consumption in Gallons July – March	FY 2013 (millions)	FY 2014 (millions)	Difference (millions)	% Change
Gasoline	1,036.6	1,026.6	-10.0	-1.0%
Diesel	448.6	447.5	-1.1	-0.3%
Total	1,485.2	1,474.1	-11.1	-0.8%

Fuel Consumption

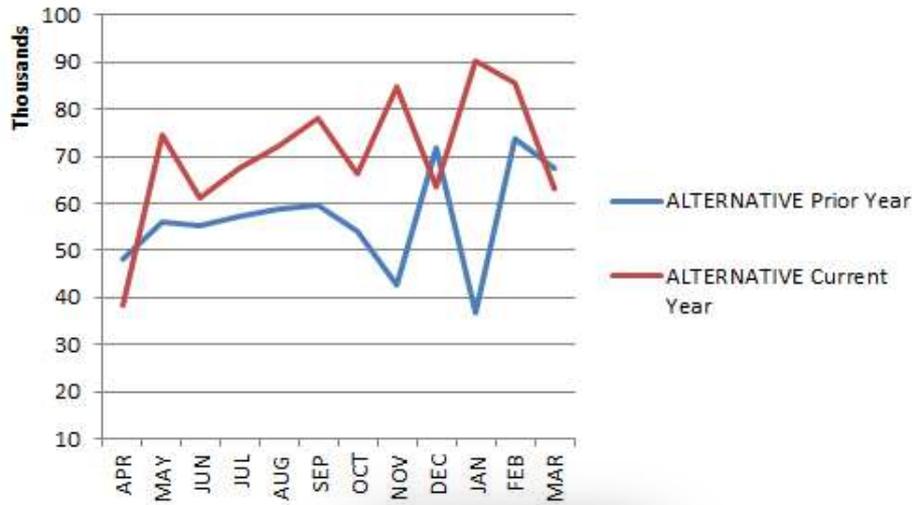
April 2013 – March 2014



Gasoline



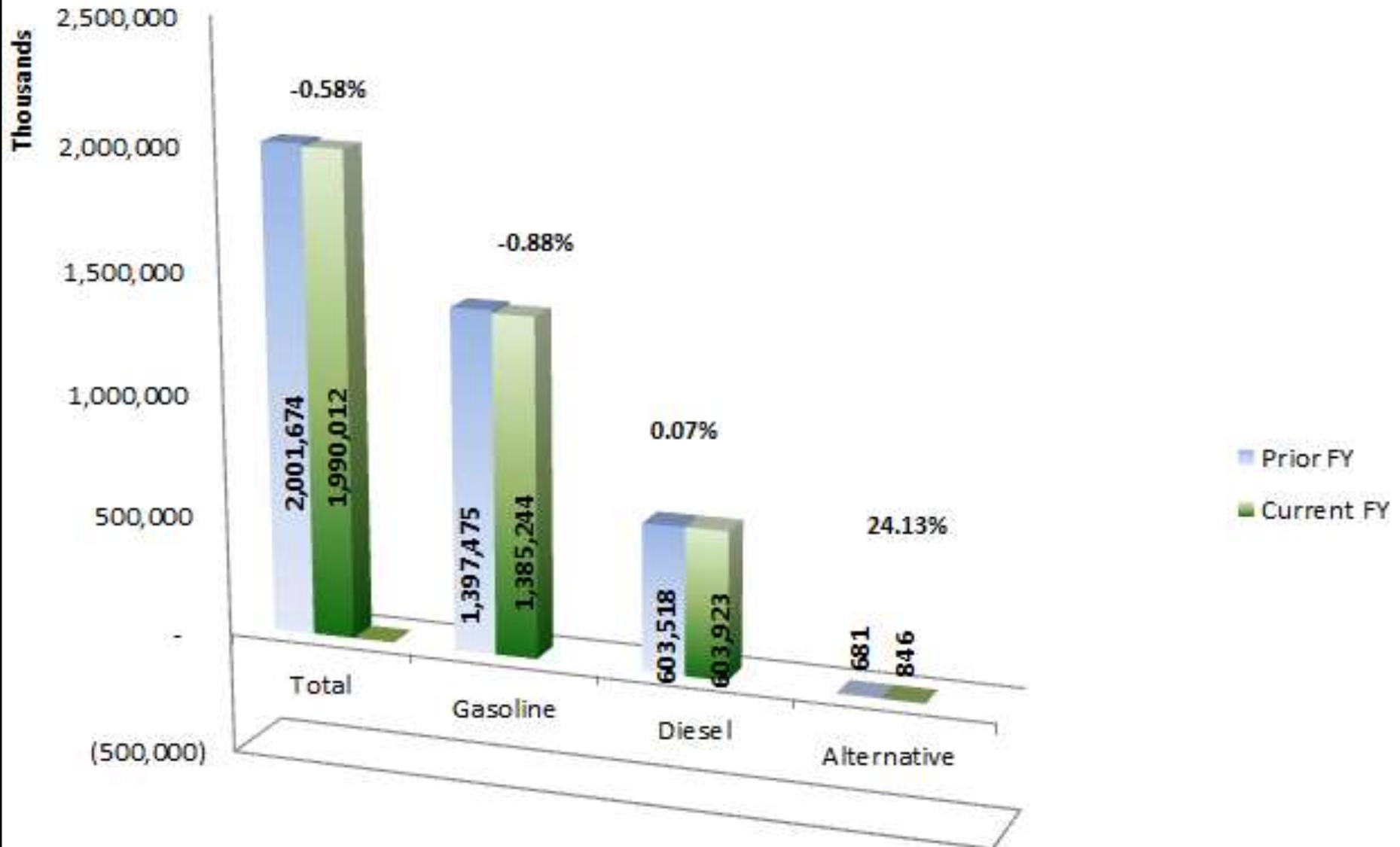
Diesel



Alternative

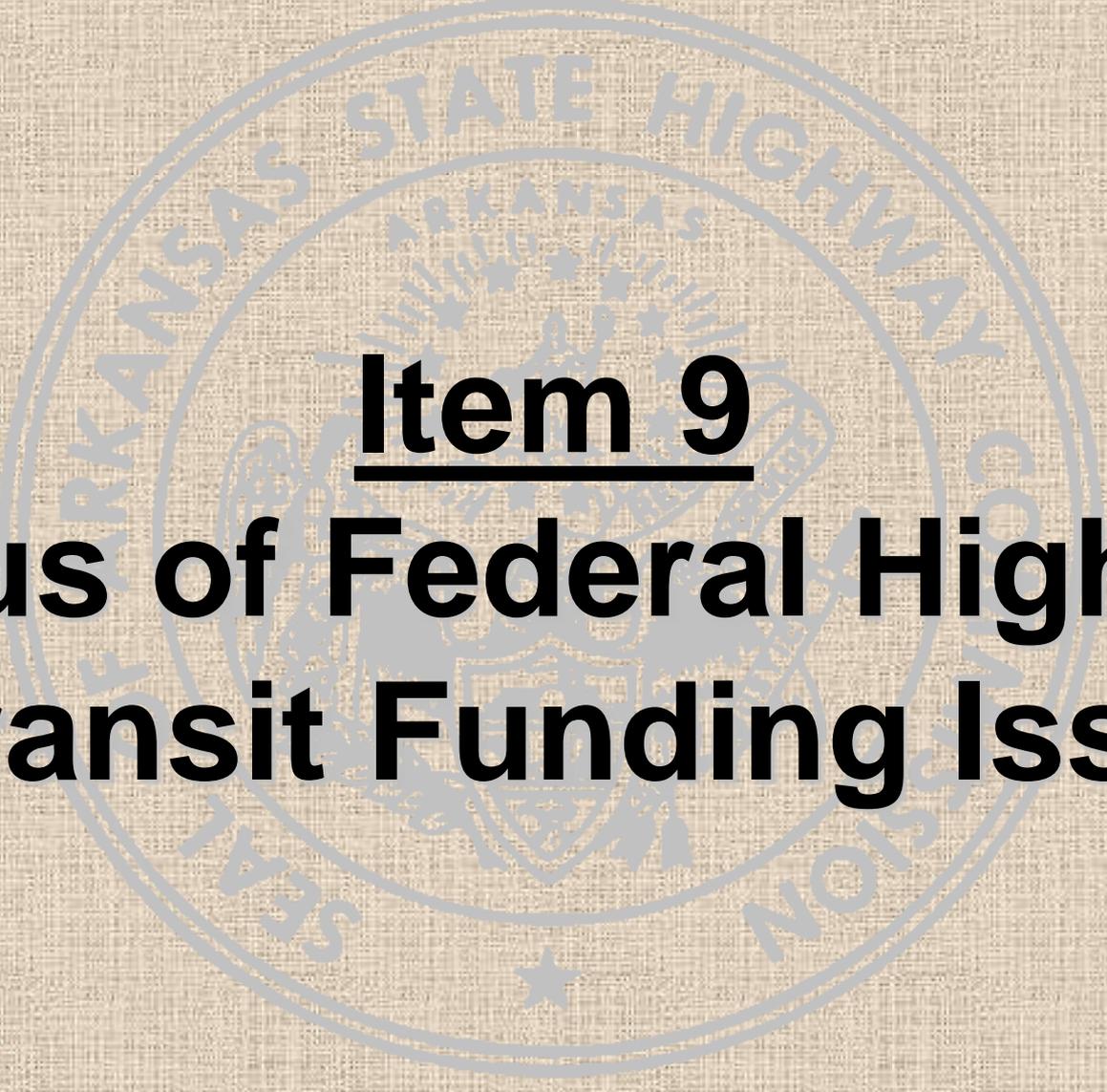
Total Fuel Consumption

Gallons



Projected Sales Tax vs. Actual

Month	Projected Net	Actual Receipts	Variance	Monthly Variance	Annual Variance
Jul	\$5,950,000.00	\$6,205,659.77	\$255,659.77	4.30%	4.30%
Aug	\$13,930,000.00	\$12,923,708.99	\$(1,006,291.01)	-7.22%	-3.78%
Sept	\$13,860,000.00	\$13,462,454.84	\$(397,545.16)	-2.87%	-6.65%
Oct	\$13,300,000.00	\$12,587,677.76	\$(712,322.24)	-5.36%	-4.77%
Nov	\$13,160,000.00	\$12,803,477.88	\$(356,522.12)	-2.71%	-3.73%
Dec	\$13,860,000.00	\$13,833,985.52	\$(26,014.48)	-0.19%	-1.44%
Jan	\$13,860,000.00	\$13,275,291.84	\$(584,708.16)	-4.22%	-3.22%
Feb	\$13,230,000.00	\$12,215,268.47	\$(1,014,731.53)	-7.67%	-3.49%
Mar	\$13,300,000.00	\$13,616,161.92	\$316,161.92	2.38%	-3.08%
Apr	\$13,650,000.00				
May	\$13,790,000.00				
Jun	\$13,930,000.00				
Total	\$155,820,000.00	\$110,923,686.99	\$(3,526,313.01)		

The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and "ARKANSAS" in the center. In the center of the seal is a smaller emblem with a shield and a star.

Item 9

Status of Federal Highway & Transit Funding Issues



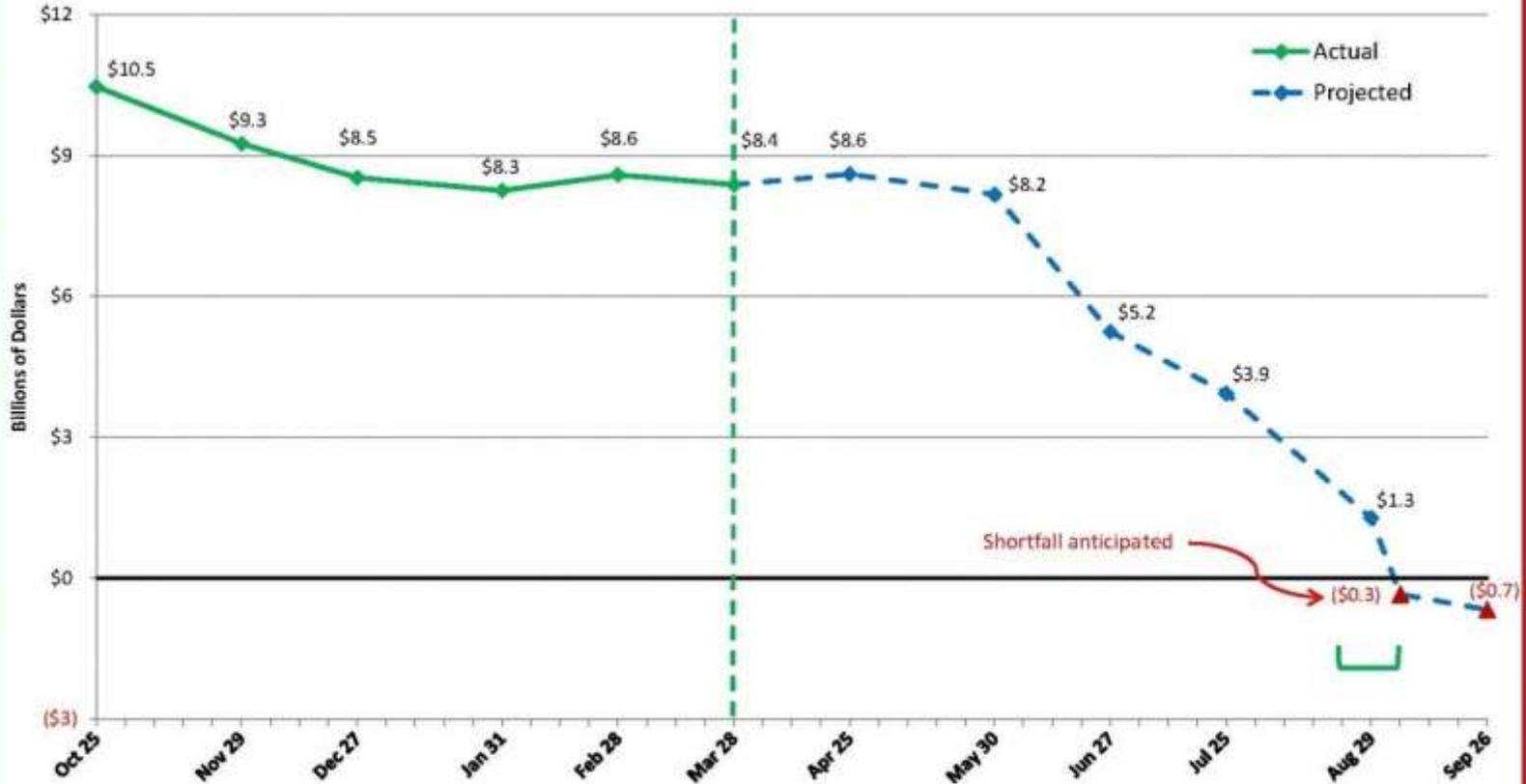
Legislation

- **Moving Ahead for Progress in the 21st Century (MAP-21)**
 - Effective through September 30, 2014
- **Consolidated Appropriations Act, 2014**
 - Expires September 30, 2014
- **MAP-21 Reauthorization**
 - House Committee on Transportation and Infrastructure (March 12, 2014)
 - Oversight of US Department of Transportation Implementation of MAP-21& Fiscal Year 2015 Budget Request for Surface Transportation
 - Senate Committee on Environment and Public Works Hearing (March 27, 2014)
 - MAP-21 Reauthorization: State & Local Perspectives on Transportation Priorities & Funding

Federal Highway Trust Fund

FY 2014 Projected Estimates for End-of-Month Cash Balances (as of 3/28/2014) ^{1/ 2/ 3/}

Highway Account of the Highway Trust Fund (Includes FHWA, FMCSA & NHTSA)



1/ Graph reflects actual data through 3/28/14 and end-of-month projections for the remainder of the fiscal year.

2/ Total receipt and outlay projections are based on FY 2015 President's Budget Baseline assumptions. Projected monthly receipt and outlay rates are based on historic averages.

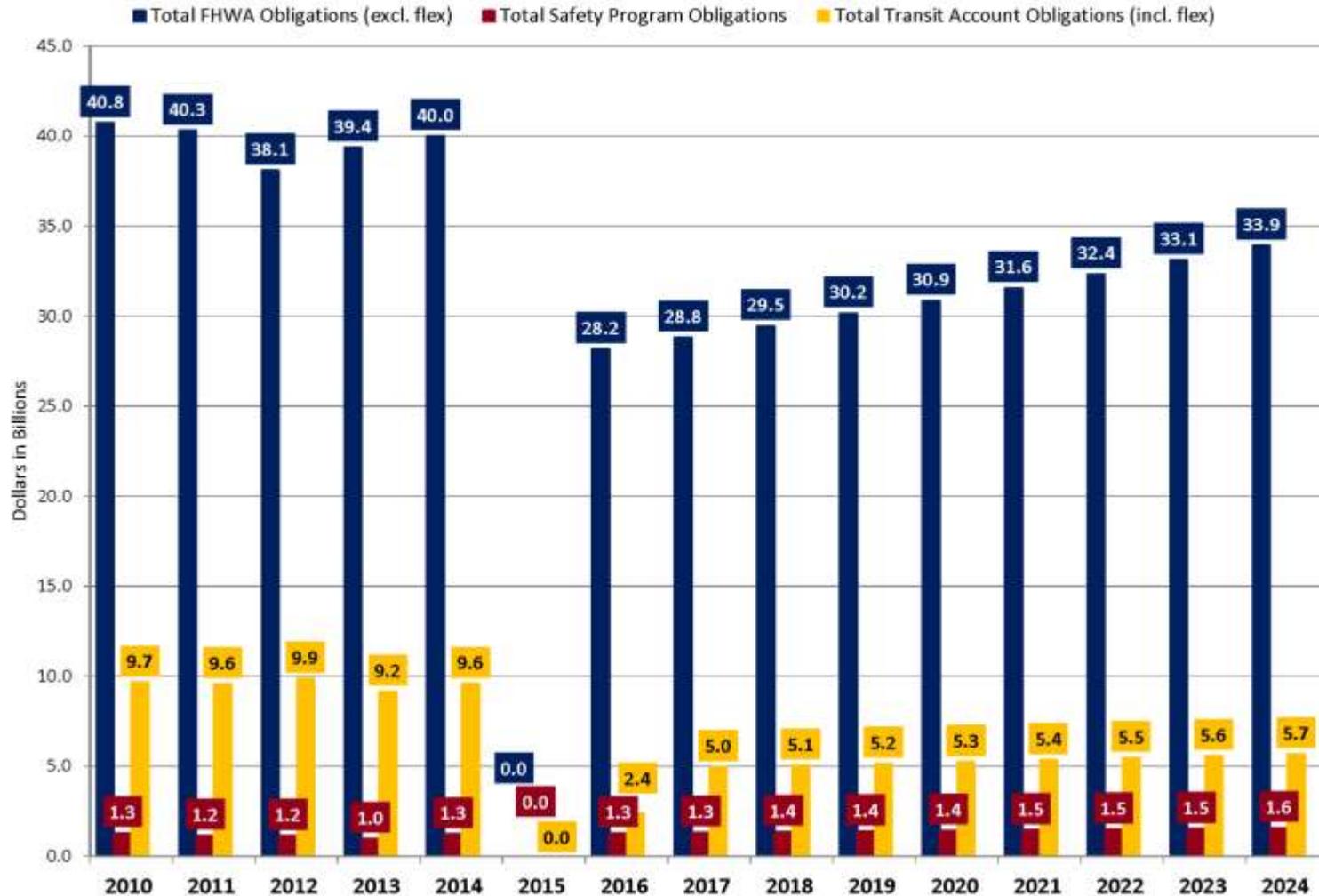
3/ Range of anticipated shortfall: Green brackets denote the estimated window of when the anticipated shortfall will occur.

Source: FHWA

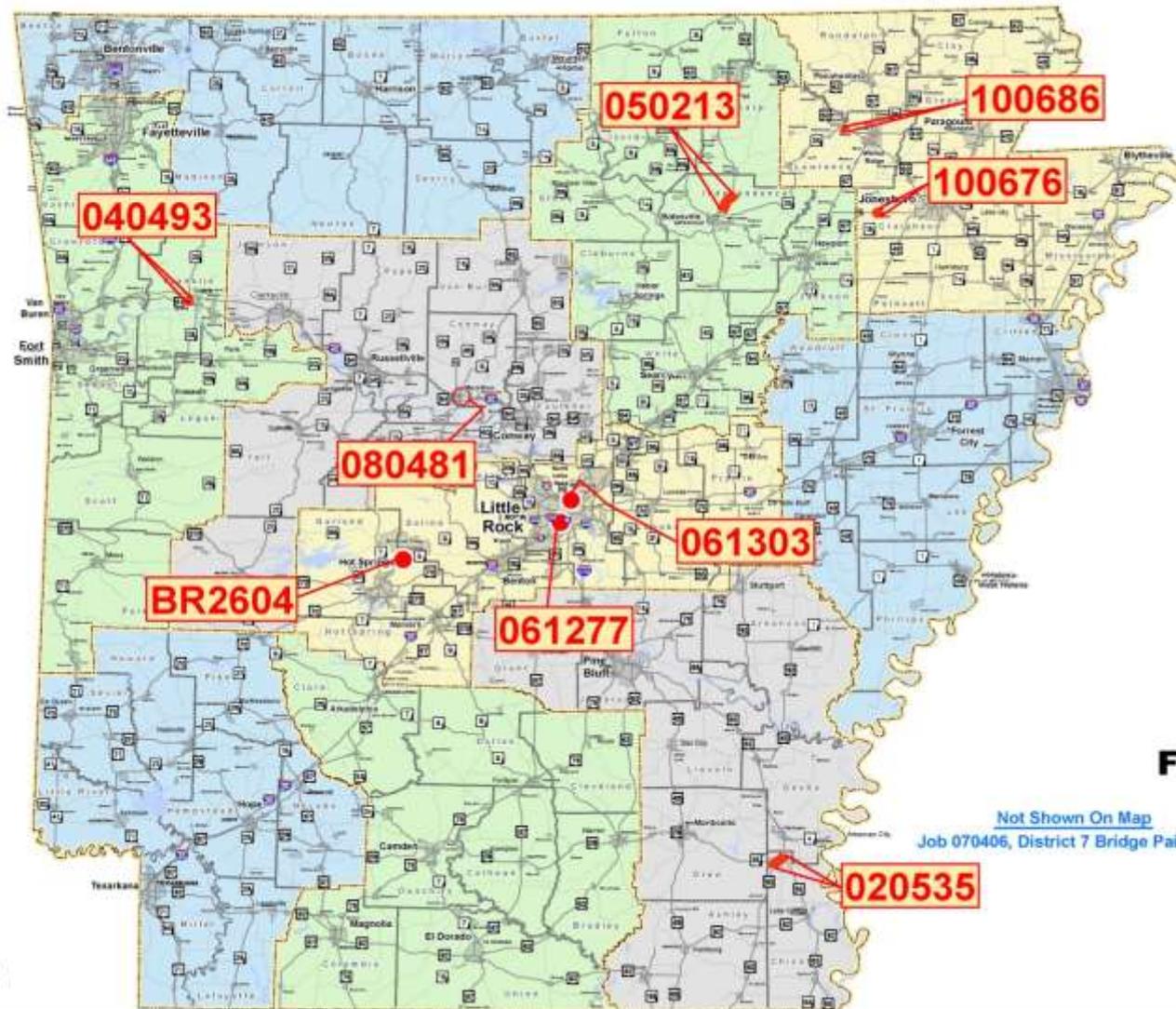
Federal Highway Trust Fund

Updated 7 Feb 2014

Estimated Federal Highway and Transit Obligations With No Net New Revenue



Impacts to Arkansas



**Projects Removed
From the April Letting**

Not Shown On Map
Job 070406, District 7 Bridge Painting (S)



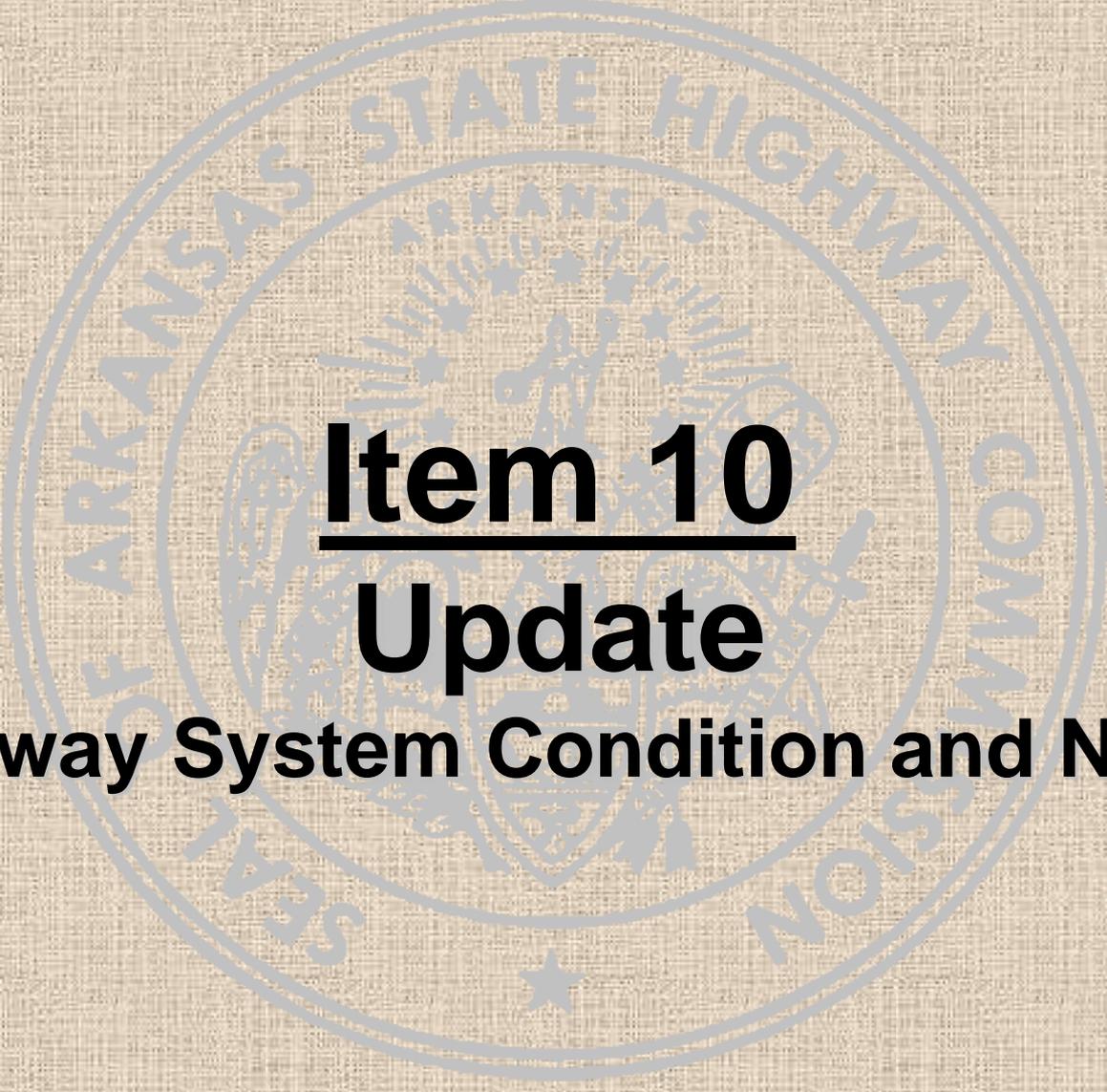
Actions Addressing Highway Trust Fund

NATION AT A *Crossroads*

**Without a strong transportation network, America goes nowhere.
And without federal investment, our system falls apart.**

*What happens to our economic future if the
Highway Trust Fund (HTF) dead-ends?*

<https://invest.transportation.org/>

The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "SEAL OF ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and the Arkansas state coat of arms in the center.

Item 10

Update

Highway System Condition and Needs

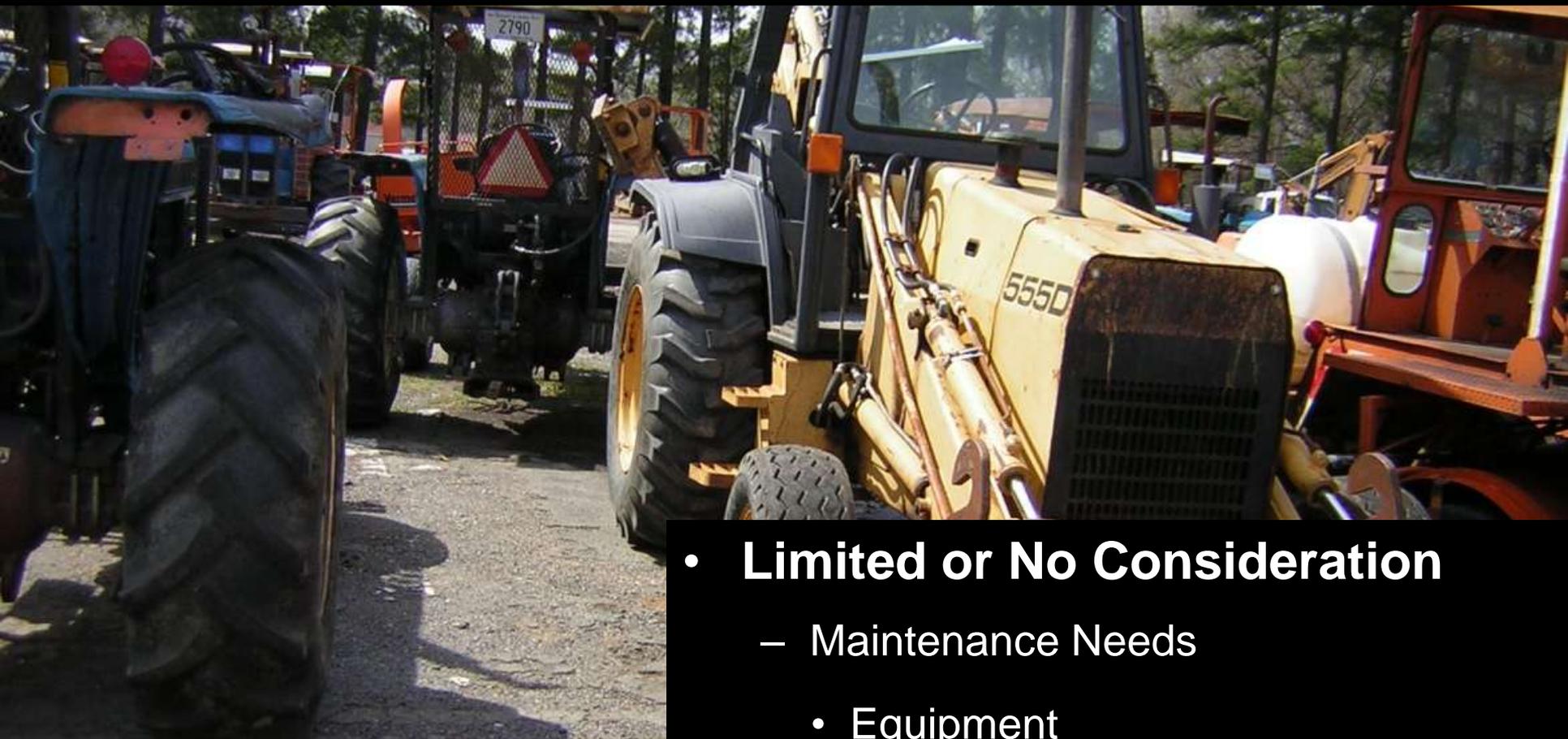
History

- **Highway Needs Study and Improvement Plan**
 - Last updated in February 2007
- **Previous Considerations**
 - Capital Improvement Needs
 - New Location
 - Capacity
 - Economic Development Connectors
 - Congressionally-designated High Priority Corridors



- System Preservation Needs
 - Interstate Rehabilitation
 - Reconstruction and Resurfacing
 - Shoulder Improvements
 - Bridge Improvements

History



- **Limited or No Consideration**
 - Maintenance Needs
 - Equipment
 - Facilities
 - Signing and Striping
 - Intelligent Transportation Systems

- **Previous Considerations**
 - Capital Improvement Needs
 - System Preservation Needs

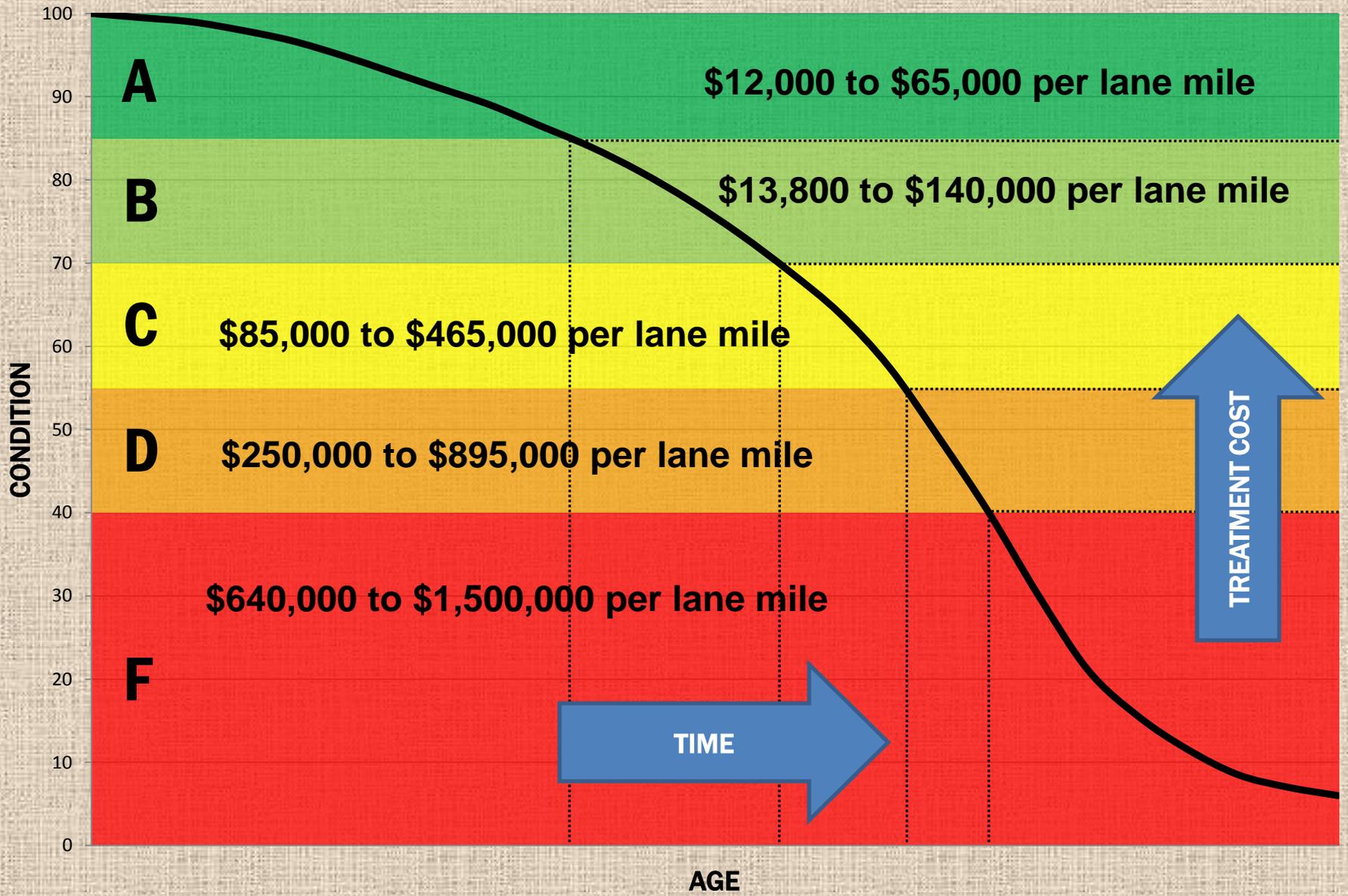
Needs Assessment Update

- **Initial Considerations**
 - System Preservation Needs
 - Capacity Needs
 - Safety Needs
 - Maintenance Needs

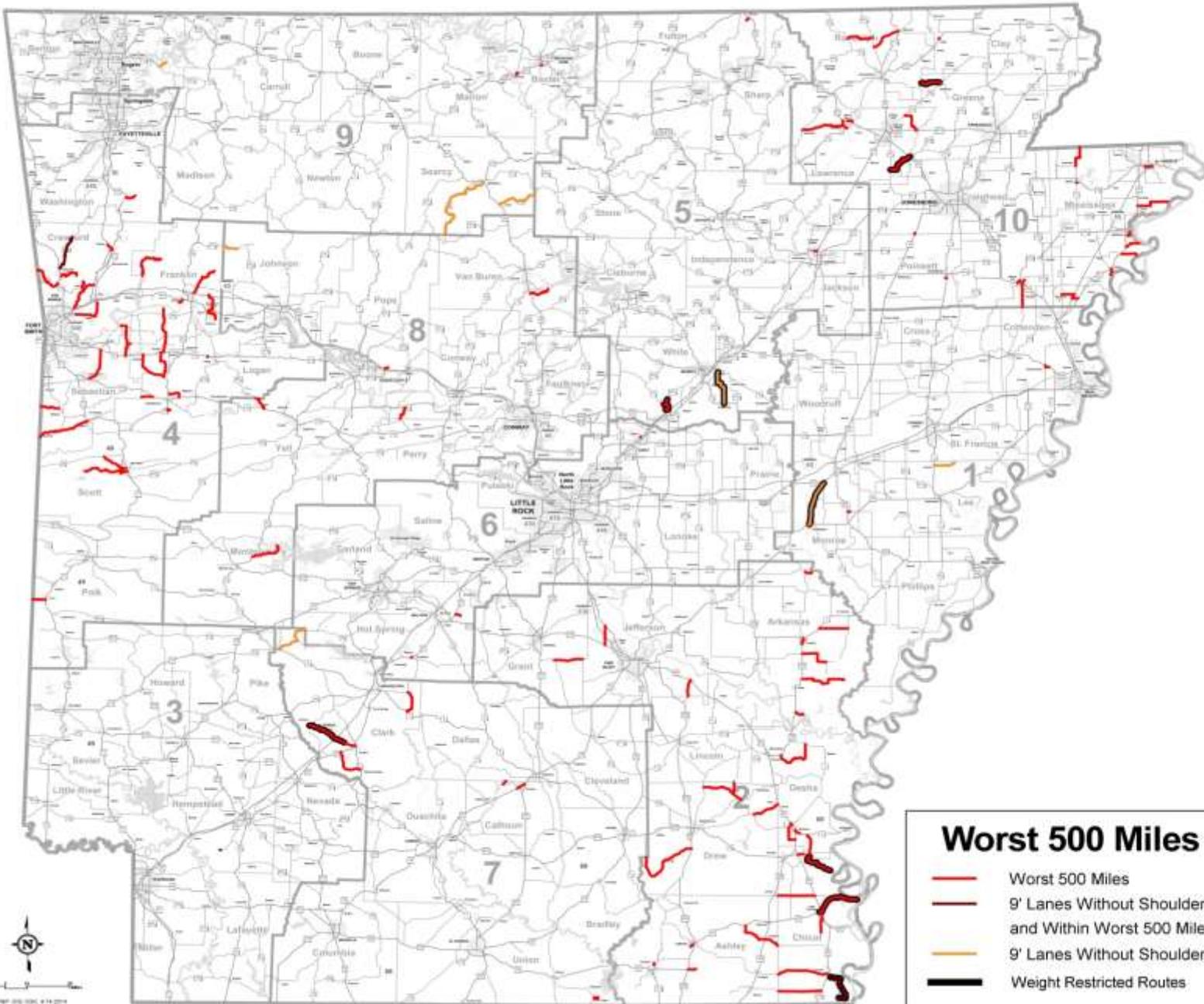


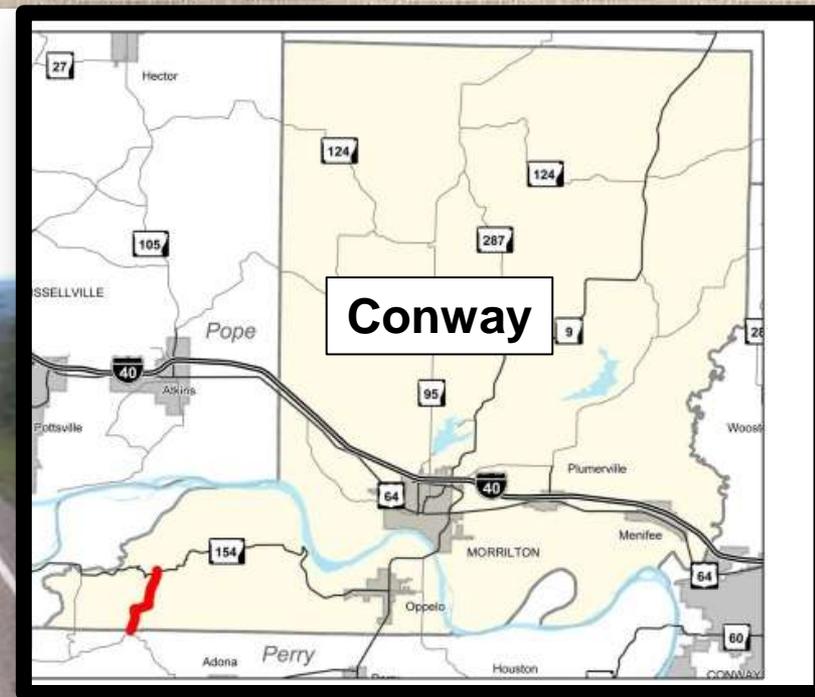
Needs Assessment Update

- **Subsequent Considerations**
 - **Capital Improvements for Economic Development**
 - **New Location Routes**
 - **Major Widening**
 - **New Interchanges**
 - **Congressionally-Designated High Priority Corridors**



Arkansas Highway and Transportation Department Worst 500 Miles on Non-APHN Network





Ranking
#91

Rutting: 0.30 inches

IRI: 174 inches / mile

Cracking: 60

PCI: 65

ADT: 160



Excellent

Good

Fair

Poor



**Ranking
#74**

Rutting: 0.34 inches

IRI: 213 inches / mile

Cracking: 42

PCI: 65

ADT: 170



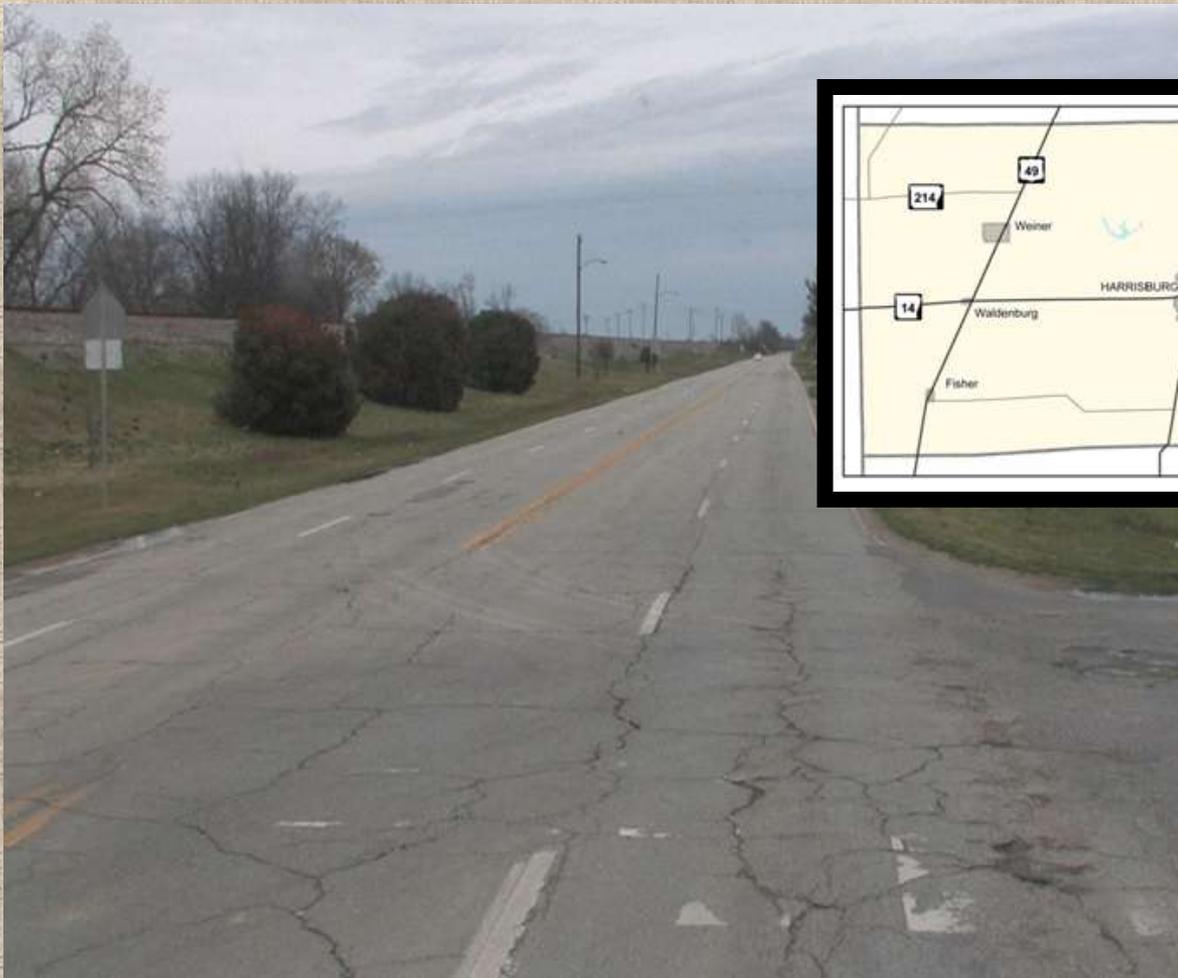
Excellent

Good

Fair

Poor





**Ranking
#54**



Business

Rutting: 0.29 inches

IRI: 190 inches / mile

Cracking: 66

PCI: 67

ADT: 7,600

Excellent

Good

Fair

Poor





**Ranking
#38**

Rutting: 0.35 inches

IRI: 376 inches / mile

Cracking: 27

PCI: 69

ADT: 280



Excellent

Good

Fair

Poor





Ranking
#20

Rutting: 0.34 inches

IRI: 264 inches / mile

Cracking: 53

PCI: 71

ADT: 390



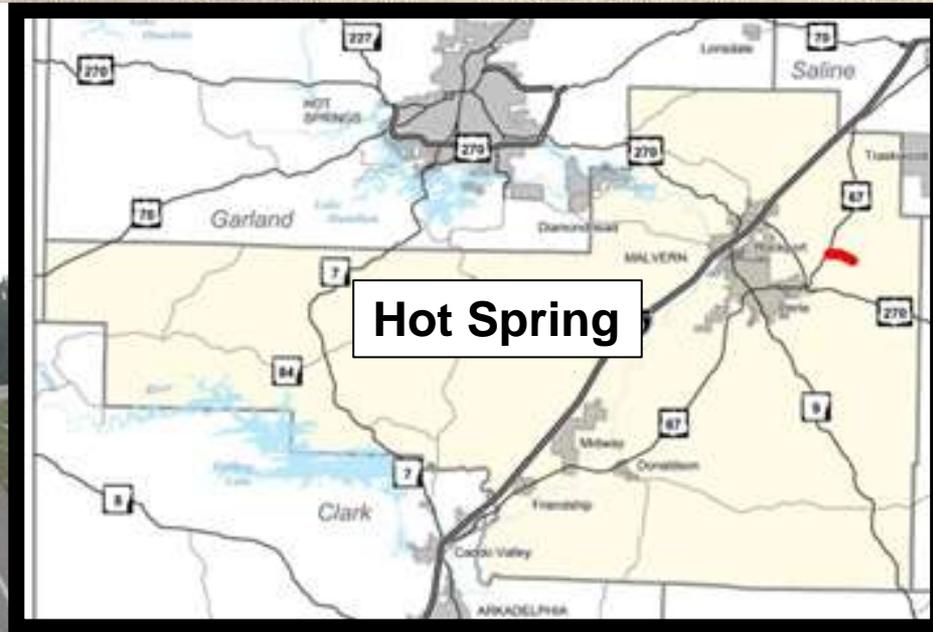
Excellent

Good

Fair

Poor





Ranking
#6

Rutting: 0.89 inches

IRI: 146 inches / mile

Cracking: 80

PCI: 78

ADT: 530



Excellent

Good

Fair

Poor





Ranking
#5

Rutting: 0.39 inches

IRI: 200 inches / mile

Cracking: 92

PCI: 79

ADT: 330



Excellent

Good

Fair

Poor





**Ranking
#3**

Rutting: 0.58 inches

IRI: 313 inches / mile

Cracking: 62

PCI: 82

ADT: 200



Excellent

Good

Fair

Poor





Ranking #2



Business

Rutting: 0.56 inches

IRI: 320 inches / mile

Cracking: 63

PCI: 82

ADT: 180

Excellent

Good

Fair

Poor





Ranking #1

Rutting: 0.69 inches	IRI: 240 inches / mile
Cracking: 84	PCI: 86
ADT: 80	



Excellent Good Fair Poor

System Preservation - Pavements

Highway System Type	Current Grade	Goal Grade	Cost Per Year for 10 Years to Reach Goal Grade
Interstate System	B	A	\$ 0*
National Highway System	C+	B	\$ 80,000,000
Other Arkansas Primary Highway Network	C-	C+	\$ 71,000,000
Non Arkansas Primary Highway Network	D-	C-	\$ 155,000,000
Total For Arkansas State Highway System**			\$ 306,000,000

*Financed through the Interstate Rehabilitation Program

**Plus Right-of-Way and Utility Relocation Costs

System Preservation - Bridges

**District 4
Ozark Bridge
Before Paint**



After Paint



System Preservation - Bridges

**District 6
White River
Bridge Deck**

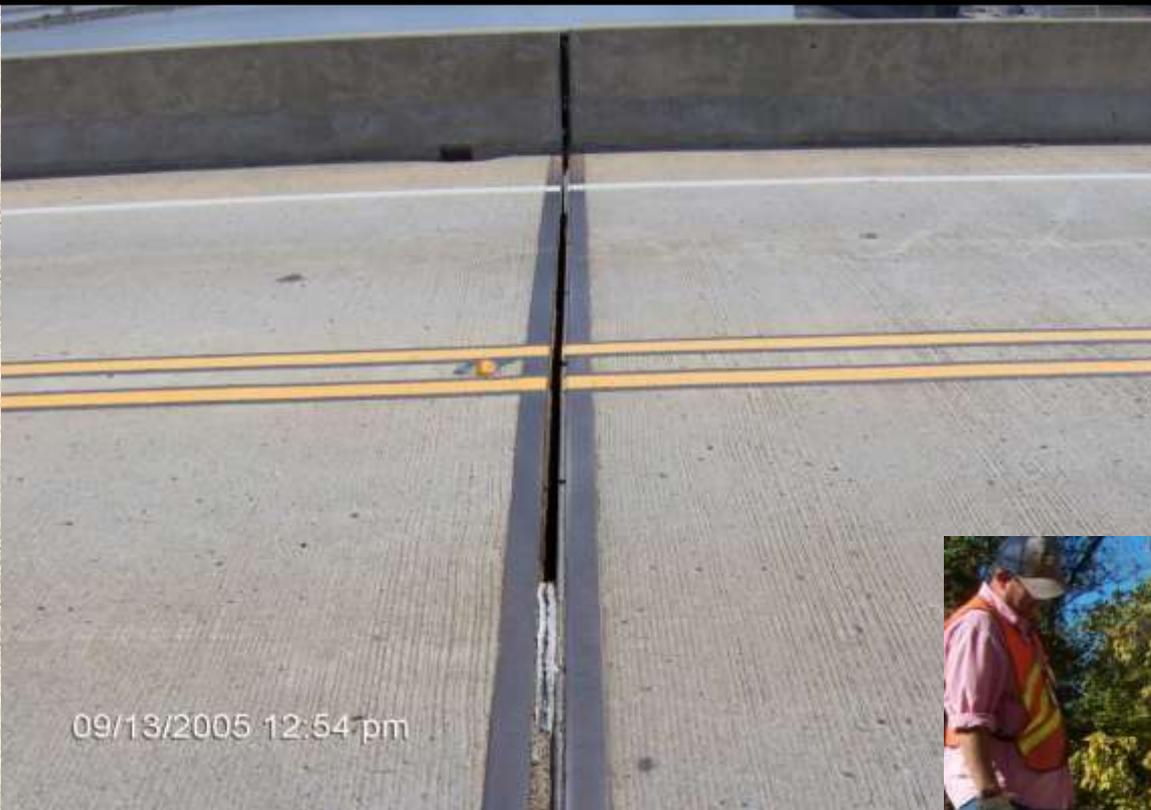
Hydro Demolition



After Hydro Demolition

System Preservation - Bridges

**Typical
Failed Bridge
Joint**



**Bridge
Joint Replacement**



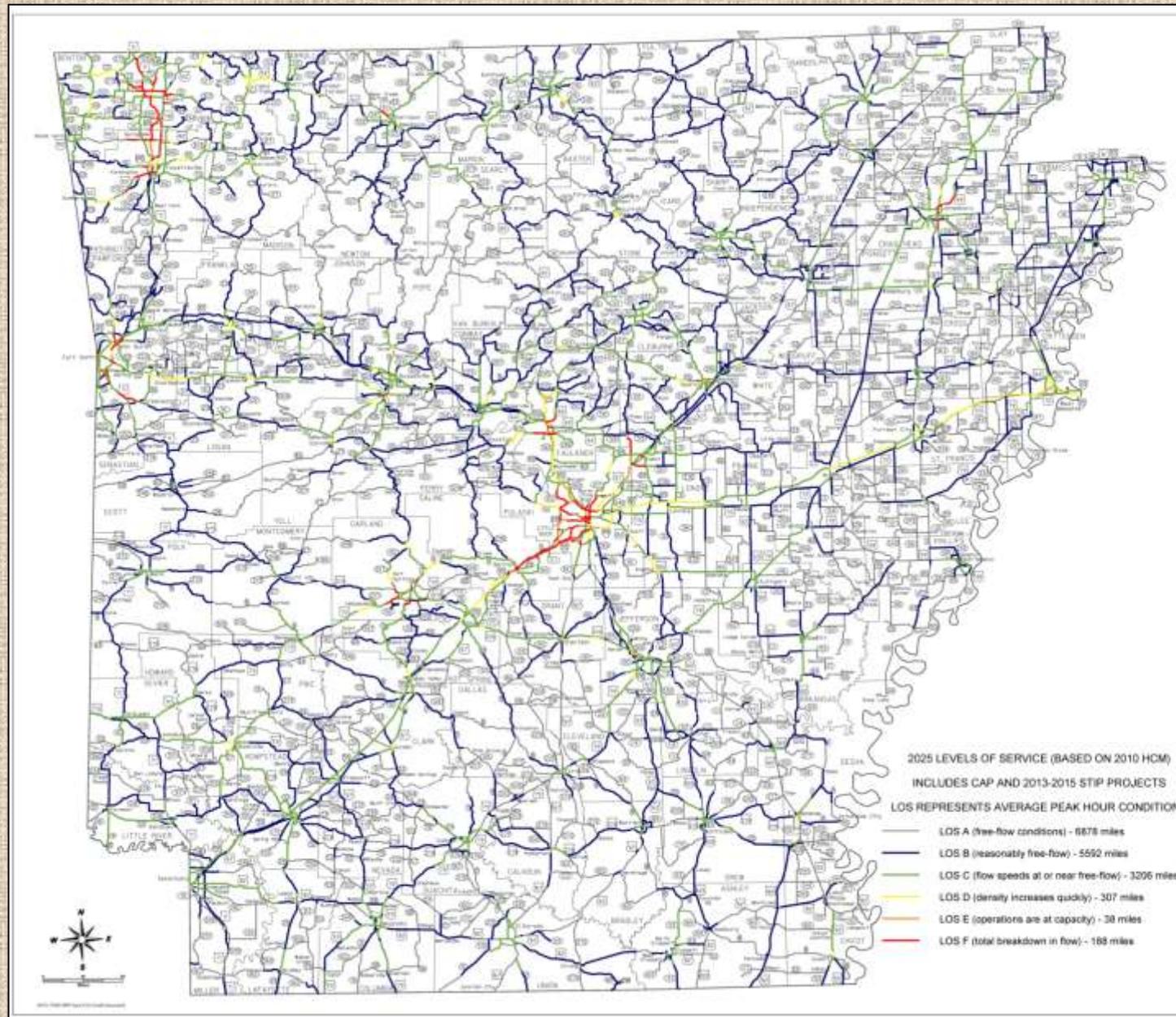
System Preservation - Bridges

IMPROVEMENT	NUMBER BRIDGES	COST (Next 10 Years)
Structurally Deficient and Posted Bridge Replacement	450	\$760,000,000
Bridge Preservation Treatments (\$19 M/year)	TBD	\$190,000,000
Total*	450	\$950,000,000

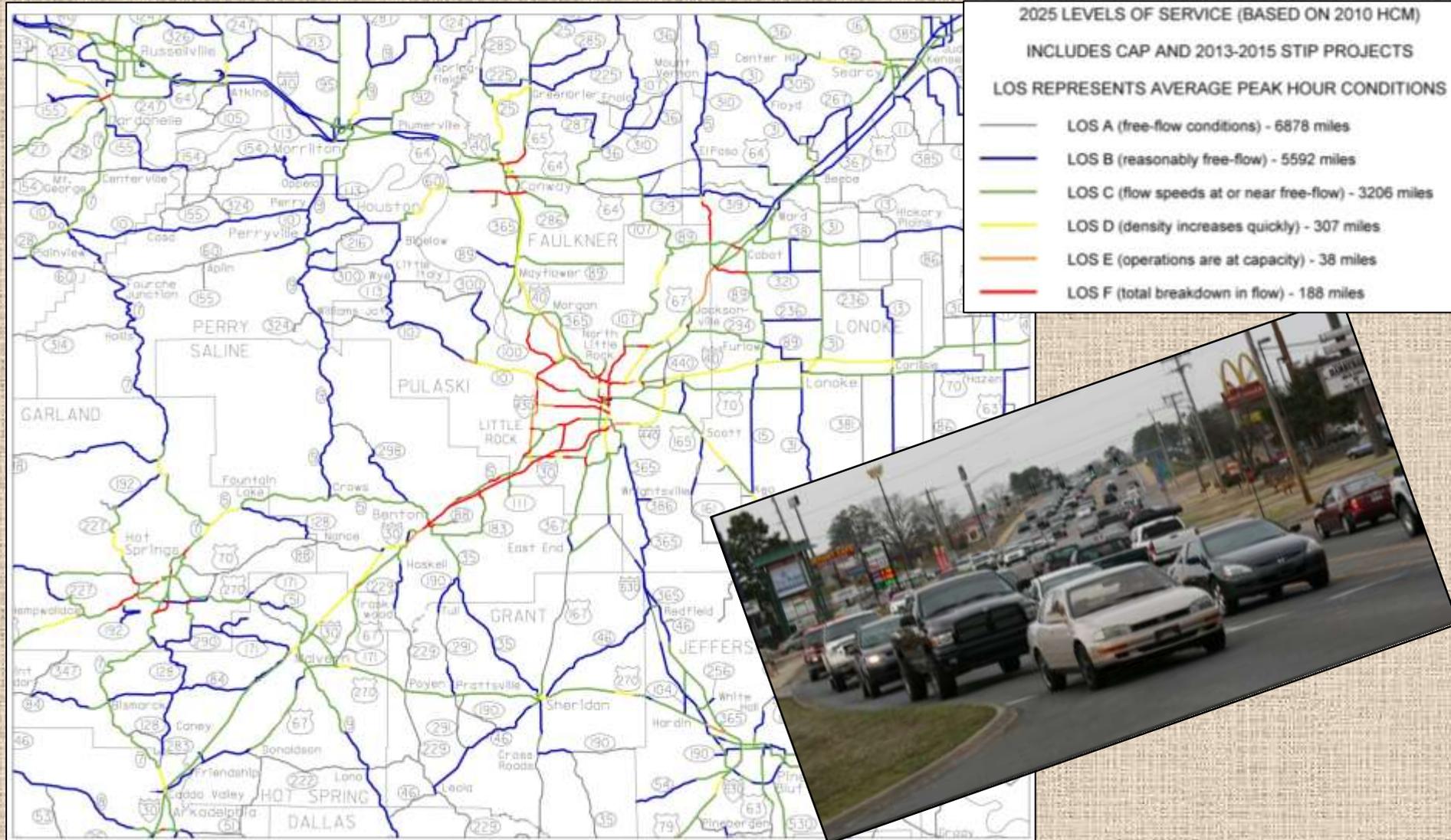
*Plus Right-of-Way and Utility Relocation Costs

Capacity Needs - Congestion Relief

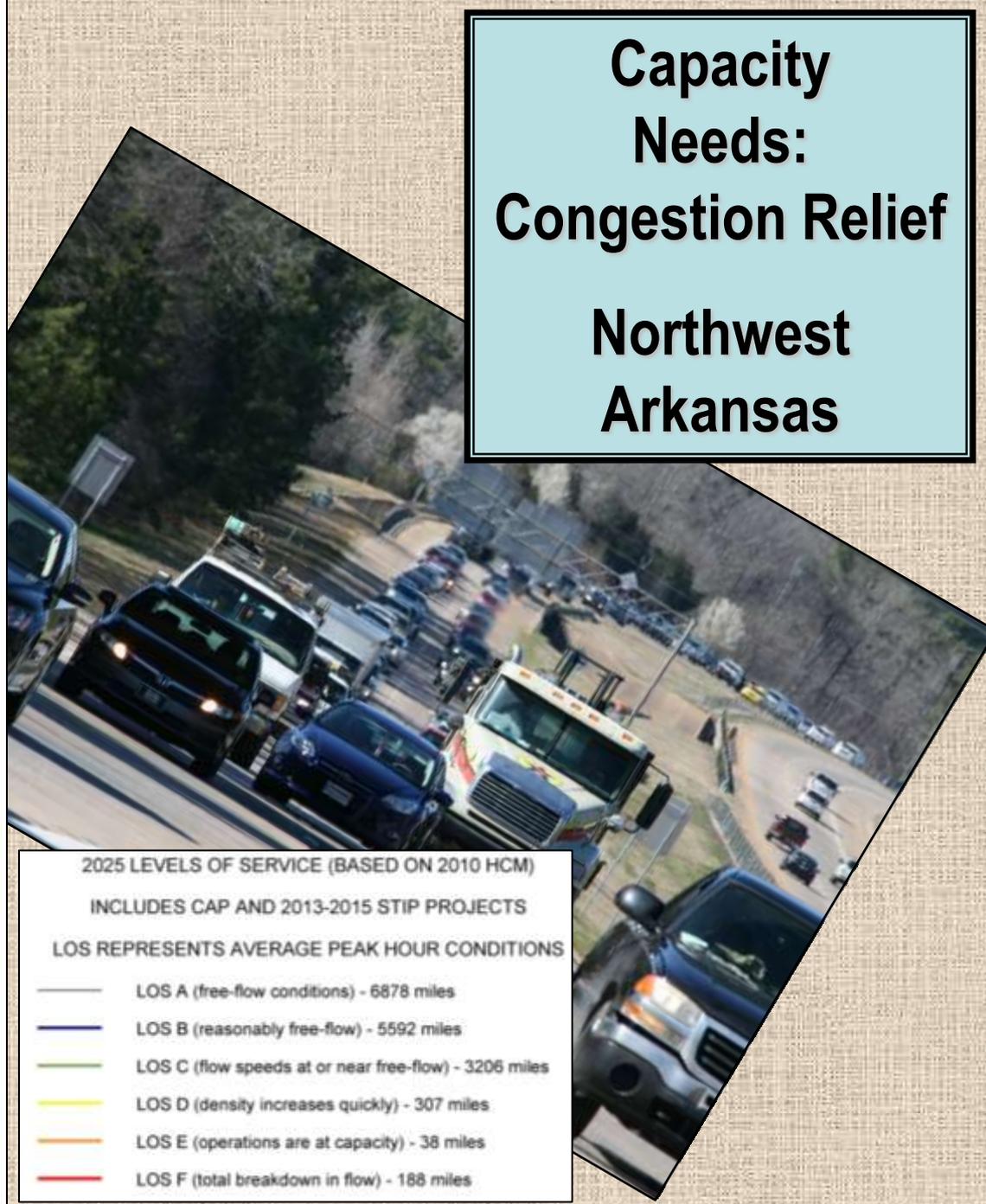
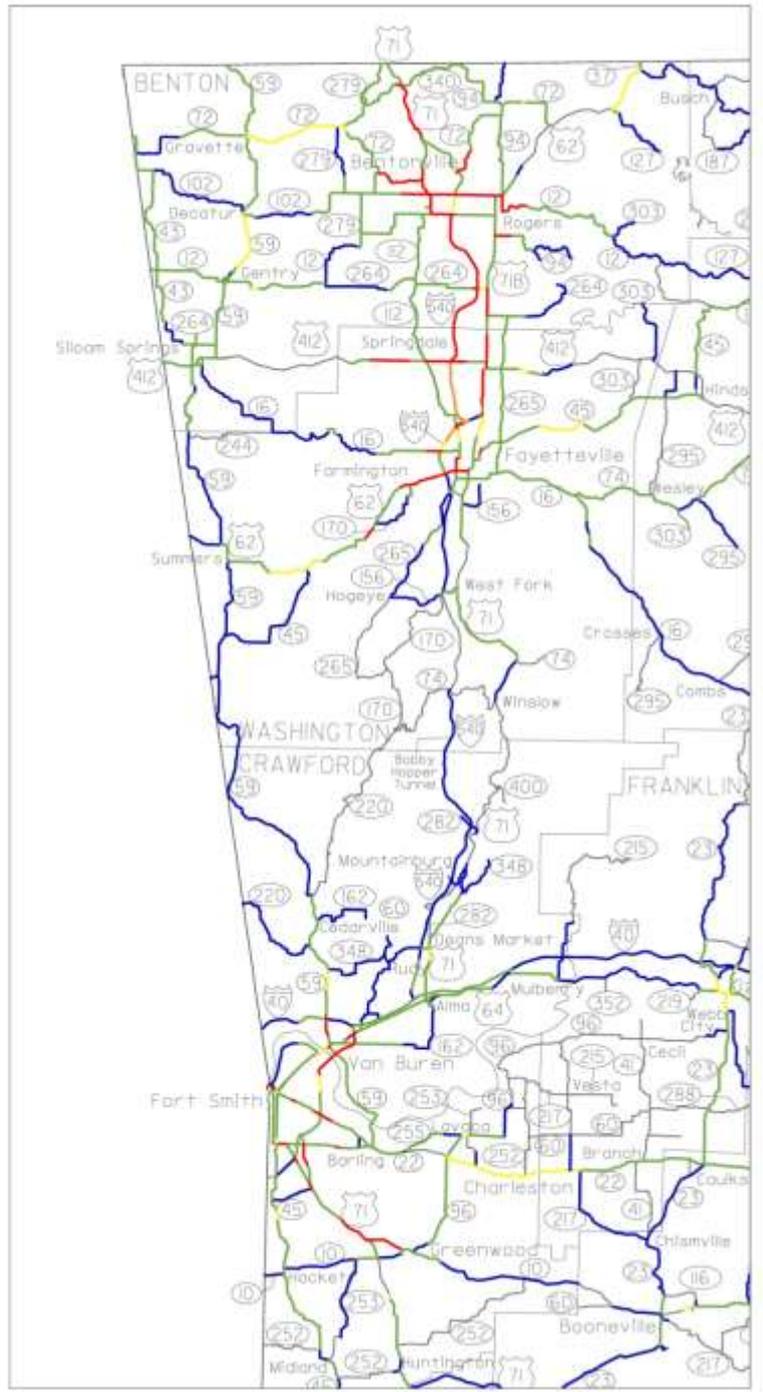
Level of Service Arkansas State Highways



Capacity Needs - Congestion Relief Central Arkansas



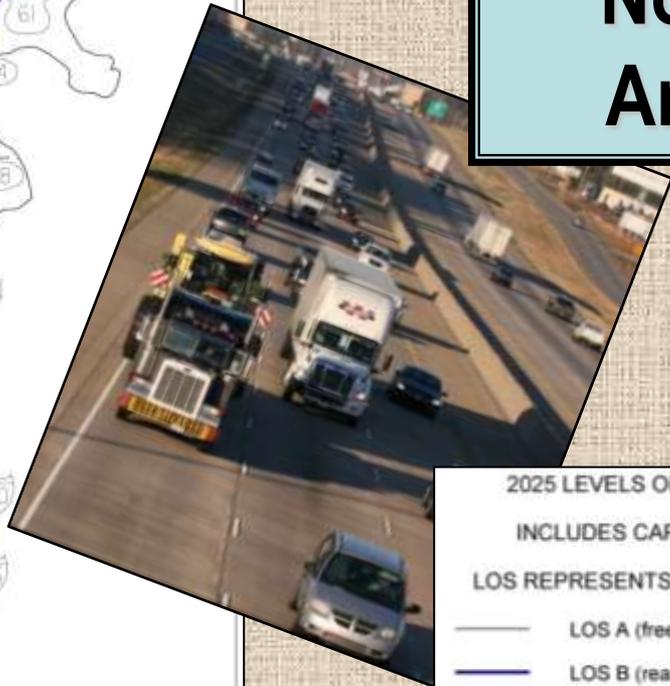
Capacity Needs: Congestion Relief Northwest Arkansas



2025 LEVELS OF SERVICE (BASED ON 2010 HCM)
INCLUDES CAP AND 2013-2015 STIP PROJECTS
LOS REPRESENTS AVERAGE PEAK HOUR CONDITIONS

—	LOS A (free-flow conditions) - 6878 miles
—	LOS B (reasonably free-flow) - 5592 miles
—	LOS C (flow speeds at or near free-flow) - 3206 miles
—	LOS D (density increases quickly) - 307 miles
—	LOS E (operations are at capacity) - 38 miles
—	LOS F (total breakdown in flow) - 188 miles

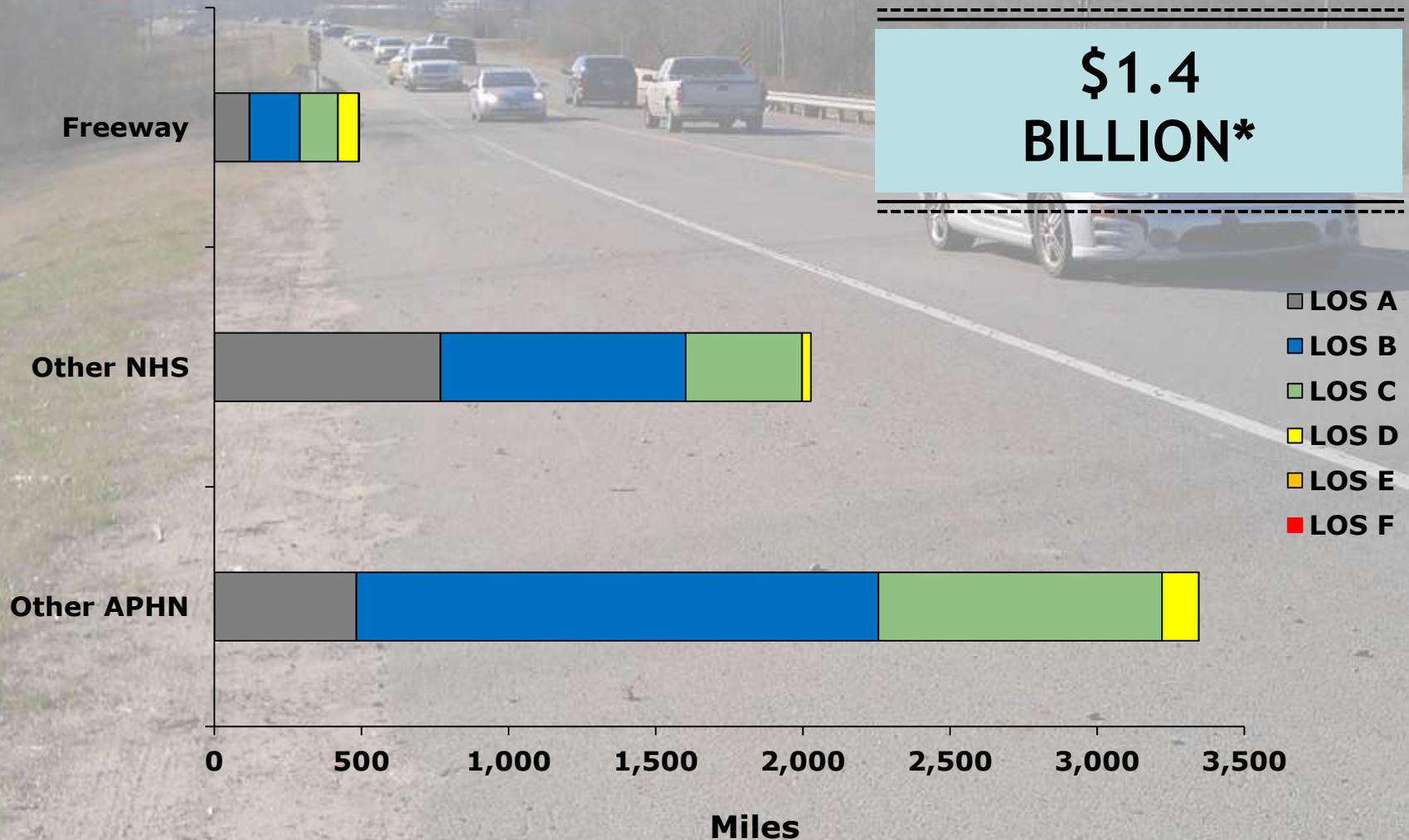
Capacity Needs: Congestion Relief Relief Northeast Arkansas



2025 LEVELS OF SERVICE (BASED ON 2010 HCM)
INCLUDES CAP AND 2013-2015 STIP PROJECTS
LOS REPRESENTS AVERAGE PEAK HOUR CONDITIONS

	LOS A (free-flow conditions) - 6878 miles
	LOS B (reasonably free-flow) - 5592 miles
	LOS C (flow speeds at or near free-flow) - 3206 miles
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	LOS E (operations are at capacity) - 38 miles
	LOS F (total breakdown in flow) - 188 miles

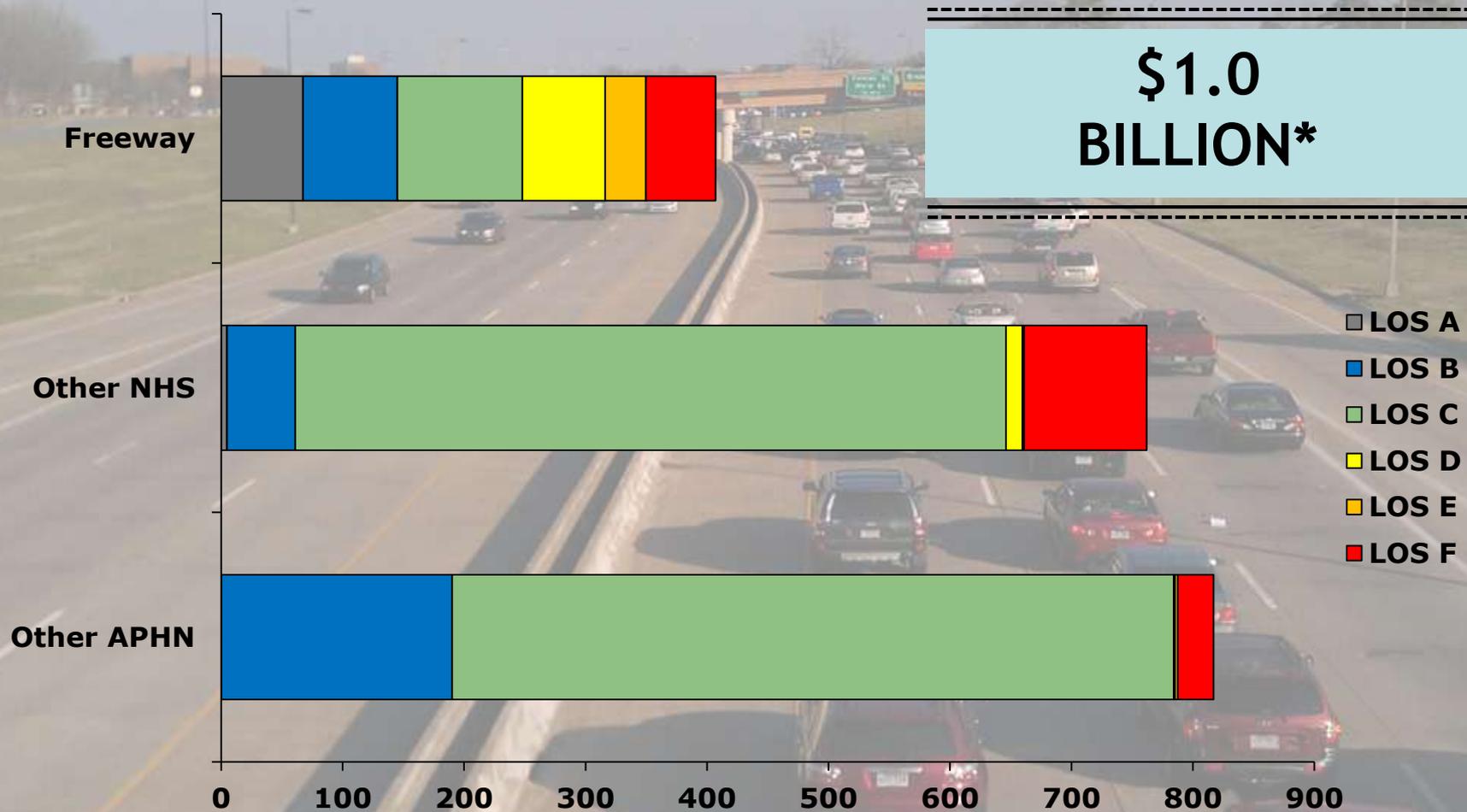
Capacity Needs - Congestion Relief RURAL



*Plus Right-of-Way and Utility Relocation Costs

Capacity Needs - Congestion Relief

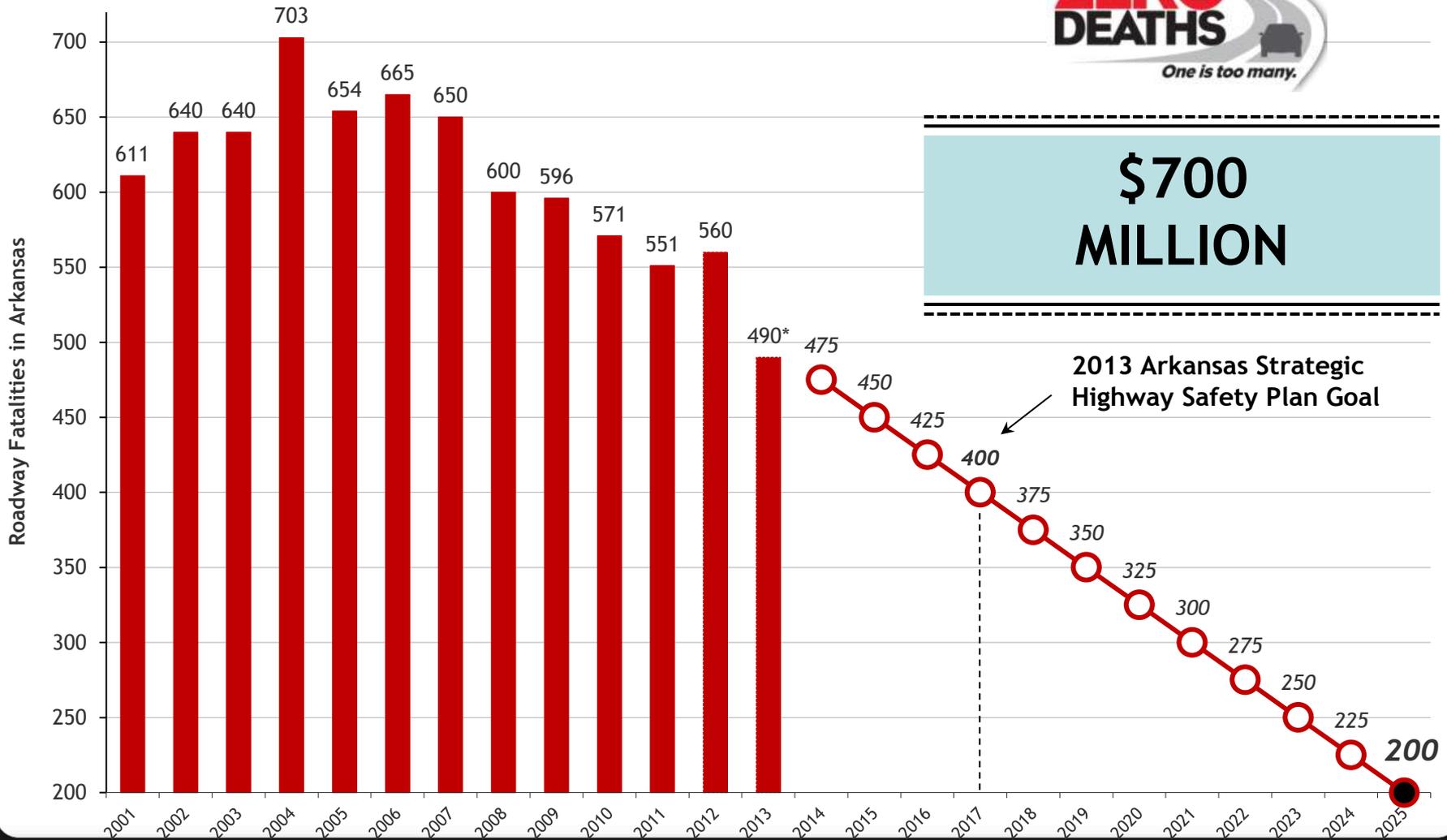
URBAN



*Plus Right-of-Way and Utility Relocation Costs

Miles

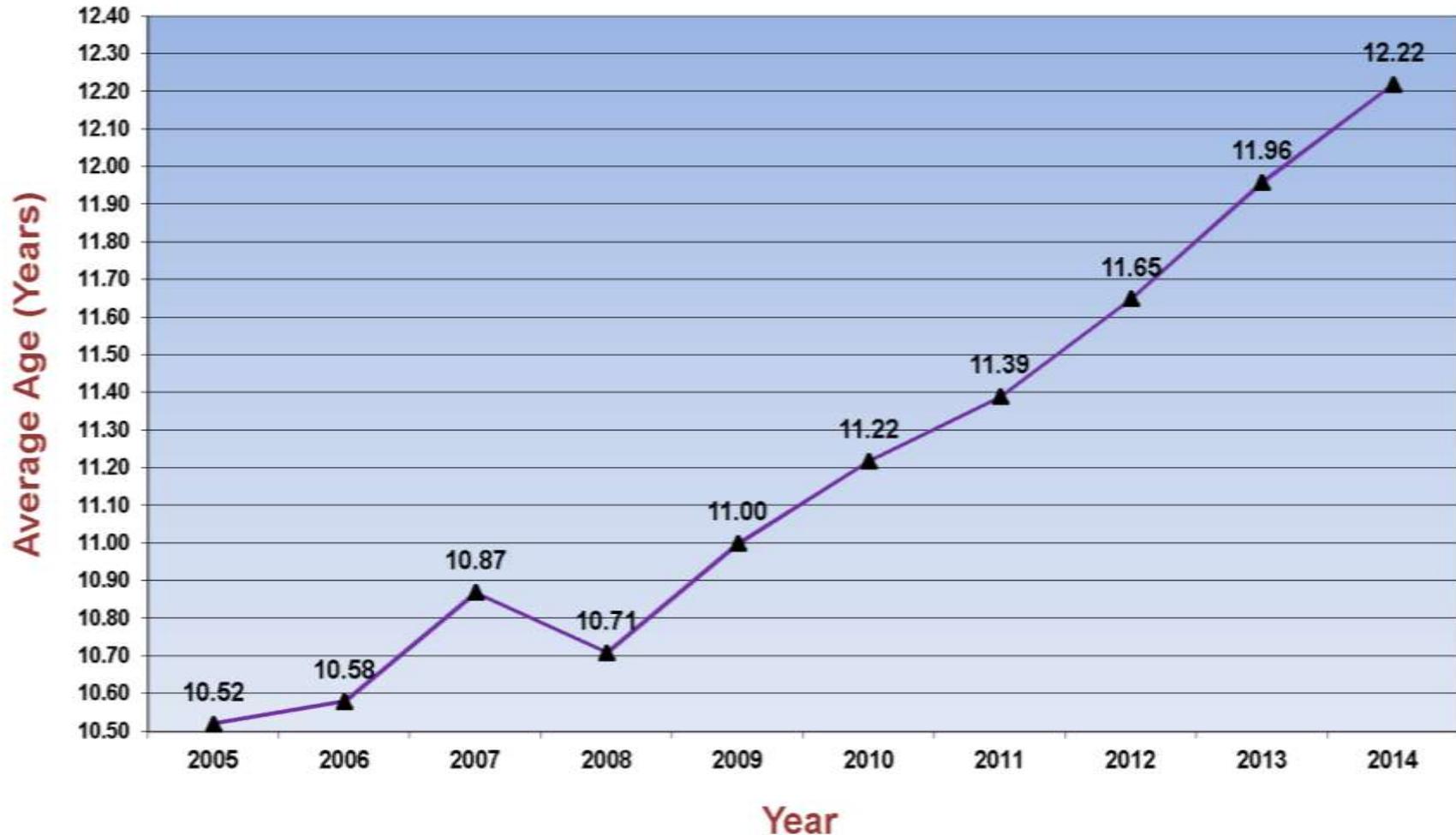
Safety Needs



*preliminary estimate

Maintenance Needs - Equipment

Average Age of AHTD Equipment Fleet



Maintenance Needs - Equipment

- Equipment Management System
- Current Investment \$12 M annually



Maintenance Needs - Equipment

- \$61 million to Achieve Optimum Age of Fleet



- Plus Annual Expenditures

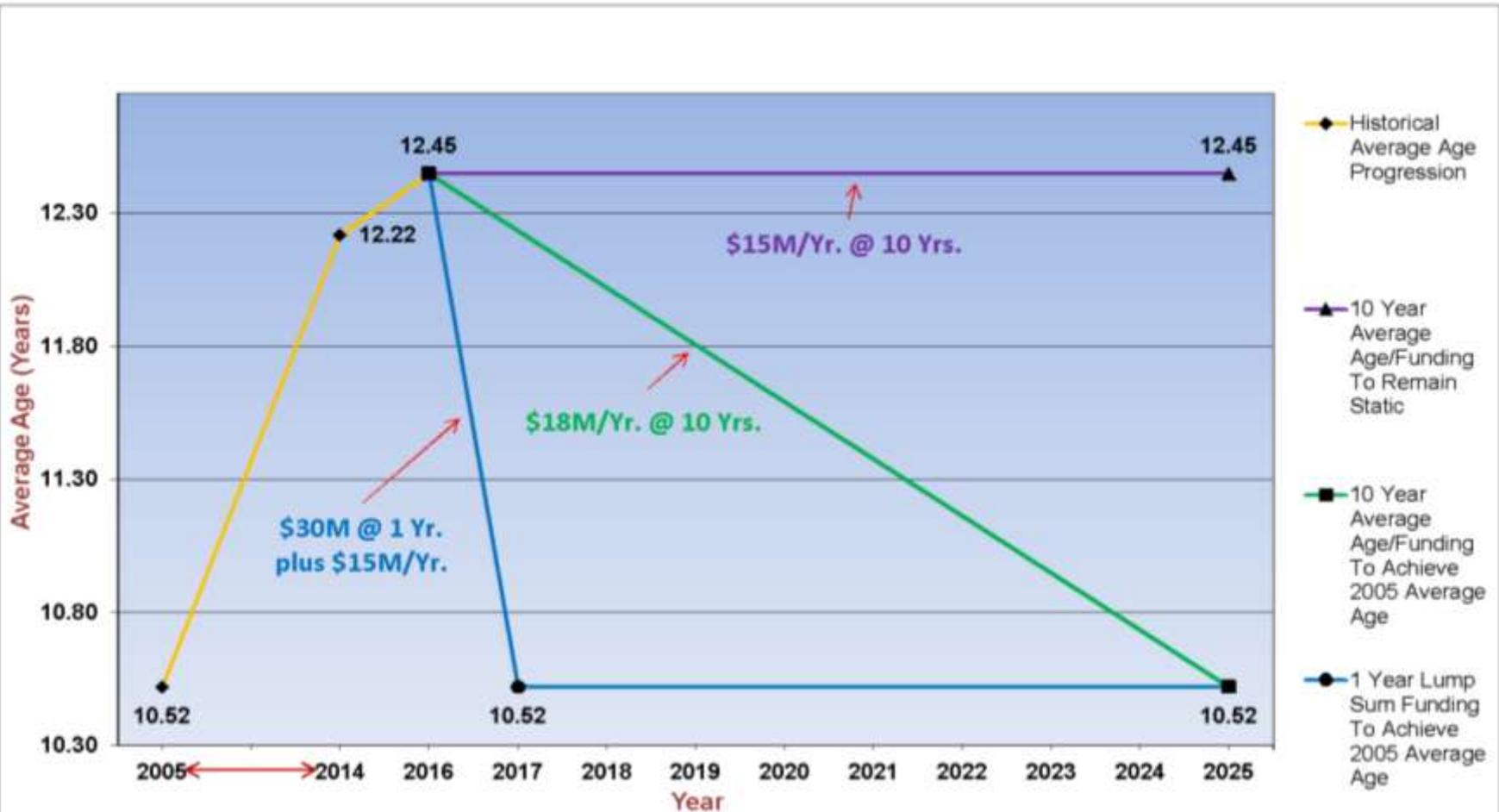
Maintenance Needs - Equipment



- Optimum Age
- 10 Year Cost \$260 M
- 3 Proposals Developed

Maintenance Needs - Equipment

AHTD EQUIPMENT NEEDS ANALYSIS
(Average Age 10 Year Projection of Equipment Fleet)



Maintenance Needs: Facilities – Resident Engineers Office



Camden RE #73

Maintenance Needs: Facilities – Resident Engineers Office



Conway RE #84

Maintenance Needs: Facilities – Area Headquarters



Lafayette County (District 3)

Maintenance Needs: Facilities – Area Headquarters



Lawrence County (District 10)

Maintenance Needs - Facilities

FACILITY	NUMBER	COST
Central Headquarters ⁽¹⁾ , Sign Shop, Central Shop	3	\$10,000,000
District Headquarters (5 ⁽¹⁾ & 6)	2	\$17,500,000
Resident Engineer Offices	10	\$4,800,000
Area Headquarters	10	\$24,000,000
Total ⁽²⁾	25	\$56,300,000

(1) Needs Assessment soon to be underway

(2) Plus Property Costs

Maintenance Needs: Intelligent Transportation Systems (ITS)

Traffic Management Center (TMC)



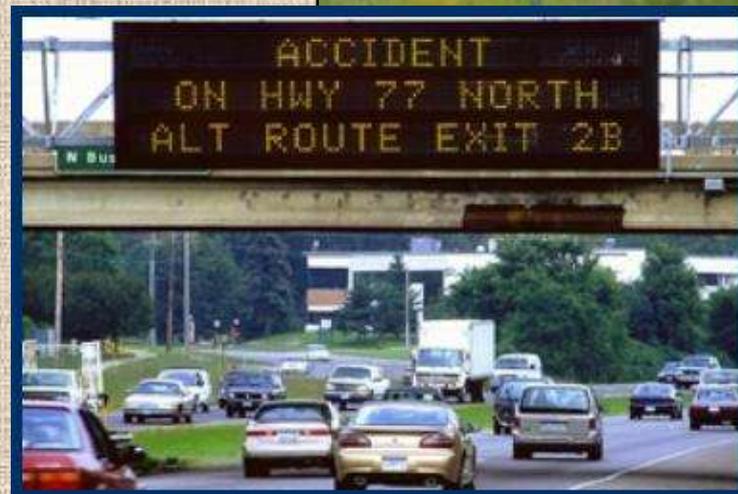
- Collect and Disseminate Traffic Information
- Monitor and Operate ITS Devices
- Coordinate with Other Agencies
- Could Serve as Statewide Emergency Operations Center

Maintenance Needs: Intelligent Transportation Systems (ITS)

Dynamic Message Signs

Installed in strategic locations to display:

- Travel Times
- Traffic Advisories
 - ✓ Unplanned Incidents
 - ✓ Maintenance or Construction Activities
- Weather Advisories/Alerts
- Morgan Nick/AMBER Alerts



Maintenance Needs: Intelligent Transportation Systems (ITS)

Traffic Cameras



- Observe Traffic Flows
- Used in Conjunction with Traffic Monitoring to Verify Incidents Effecting Traffic Flow
- Incident Management
- Monitored from TMC
- Public Access via Web (view only)
- Pan/Tilt/Zoom Access for Other Agencies

Maintenance Needs: Intelligent Transportation Systems (ITS)

Highway Advisory Radios

- Disseminate more detailed information than Dynamic Message Sign:
 - ✓ Cause of traffic problem
 - ✓ Advise Alternate Routes
 - ✓ Expected Length of Delay
 - ✓ Morgan Nick/AMBER Alerts with detailed information



Maintenance Needs: Intelligent Transportation Systems (ITS)

Road Weather Information Systems (RWIS)

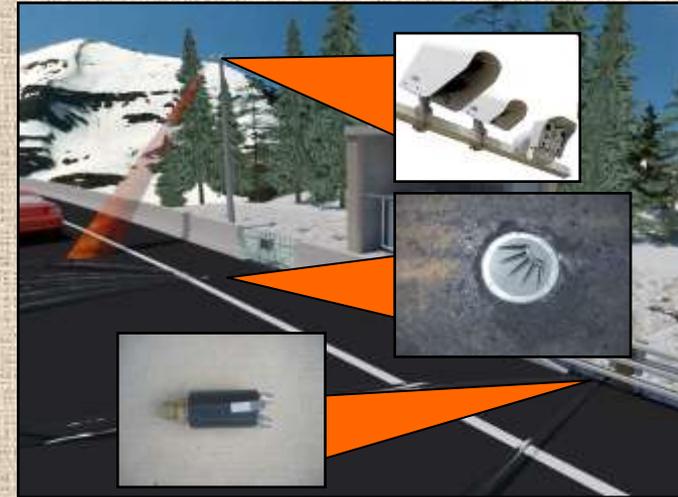


- Collects Real Time Weather Information
- Placed at Strategic Locations
- Data Collected:
 - ✓ Air Temperature
 - ✓ Wind Speed & Direction
 - ✓ Precipitation Type
 - ✓ Visibility & Fog Detection
 - ✓ Relative Humidity
 - ✓ Pavement Surface Temperature and Condition (Wet, Dry, Frozen)
 - ✓ Subgrade Temperature
- Management Can Use RWIS Data for Winter Weather Treatment Plans

Maintenance Needs: Intelligent Transportation Systems (ITS)

Bridge De-icing Systems

- Applies De-icing Chemical to Bridge Deck
- Works with Data from RWIS
- Automatic or Remote Activation by TMC
- Can be Installed During Construction or Retrofitted



Maintenance Needs: Intelligent Transportation Systems (ITS)

EQUIPMENT	NUMBER	COST
Traffic Management Center (Little Rock)	1	\$5,000,000
Dynamic Message Signs	50	\$5,000,000
Traffic Cameras	250	\$2,500,000
Highway Advisory Radios	20	\$500,000
Roadway Weather Information Systems	100	\$4,000,000
Bridge De-Icing Systems	200	\$10,000,000
Total	621	\$27,000,000

Needs Assessment Update

- **Initial Considerations**
 - System Preservation Needs
 - Capacity Needs
 - Safety Needs
 - Maintenance Needs

Summary of Needs

NEEDS CATEGORY	COST (x \$1 M)
SYSTEM PRESERVATION	
Pavement	3,060
Bridges	1,102
CAPACITY	2,880
SAFETY	700
MAINTENANCE	
Equipment	180
Facilities	62
ITS	27
TOTAL	8,011

Summary of Needs Versus Revenue (2014 Dollars)

	AMOUNT (x \$1 M)
ESTIMATED REVENUE⁽¹⁾ Federal-aid + State	3,555
TOTAL NEEDS⁽²⁾ Pavement, Bridges, Capacity, Safety, Equipment, Facilities, ITS	8,011
SHORTFALL	(4,456)

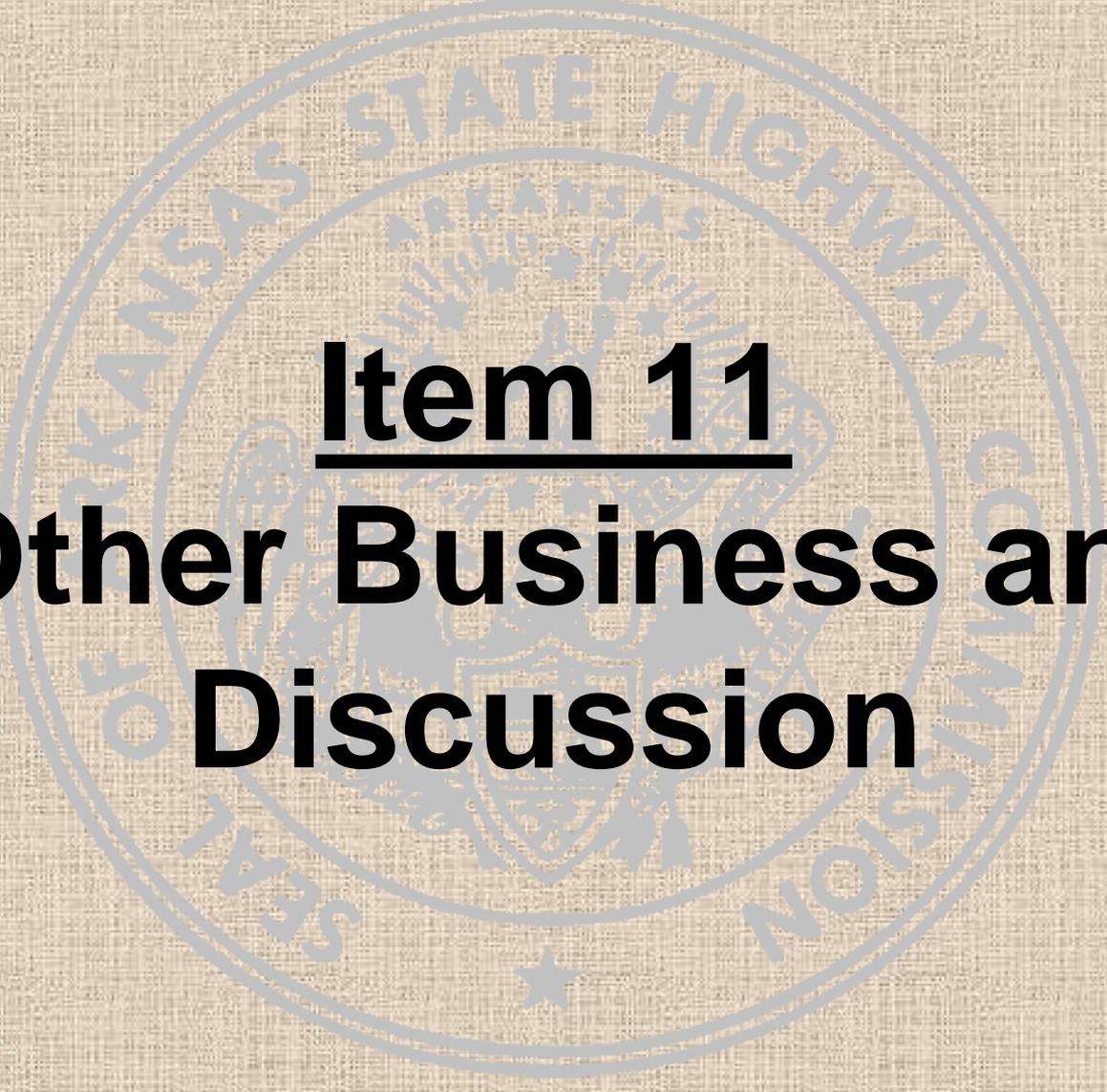
(1) Revenue Not Currently Dedicated to Routine Maintenance, Administration and Operations

(2) Does Not Include Economic Development Connectors or Congressionally-Designated High Priority Corridors

Initial Recommendations for 2014-2015 Budget

CATEGORY	2013-2014 BUDGET	2014-2015 PROPOSED BUDGET	DIFFERENCE
	x \$1 Million		
EQUIPMENT	\$ 12.0	\$ 18.0	\$ 6.00
ROUTINE MAINTENANCE (Materials)	\$ 31.0	\$ 40.0	\$ 9.0
FACILITIES	\$ 3.5	\$ 5.6	\$ 2.1
ITS	\$ 0.0	\$ 2.7	\$ 2.7
TOTAL	\$ 46.5	\$ 66.3	\$ 19.8

Note: Investments for Congestion Relief, Pavement and Bridge System Preservation, and Safety to be Considered in Development of Next STIP.

The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and a central emblem with a shield and stars.

Item 11
**Other Business and
Discussion**

The background features a large, faint, circular seal of the Arkansas State Highway Commission. The seal contains the text "ARKANSAS STATE HIGHWAY COMMISSION" around the perimeter and a central emblem with a star and other symbols.

Arkansas State Highway Commission Meeting

Wednesday, April 16, 2014