Corridor Advisory Team (CAT) Meeting

Missouri Department of Transportation Route 19 Bridges Environmental Assessment (EA) Shannon County, MO

December 17, 2020

BRIDGES AF ROUNDA ROUNDA SHANNON COUNTY





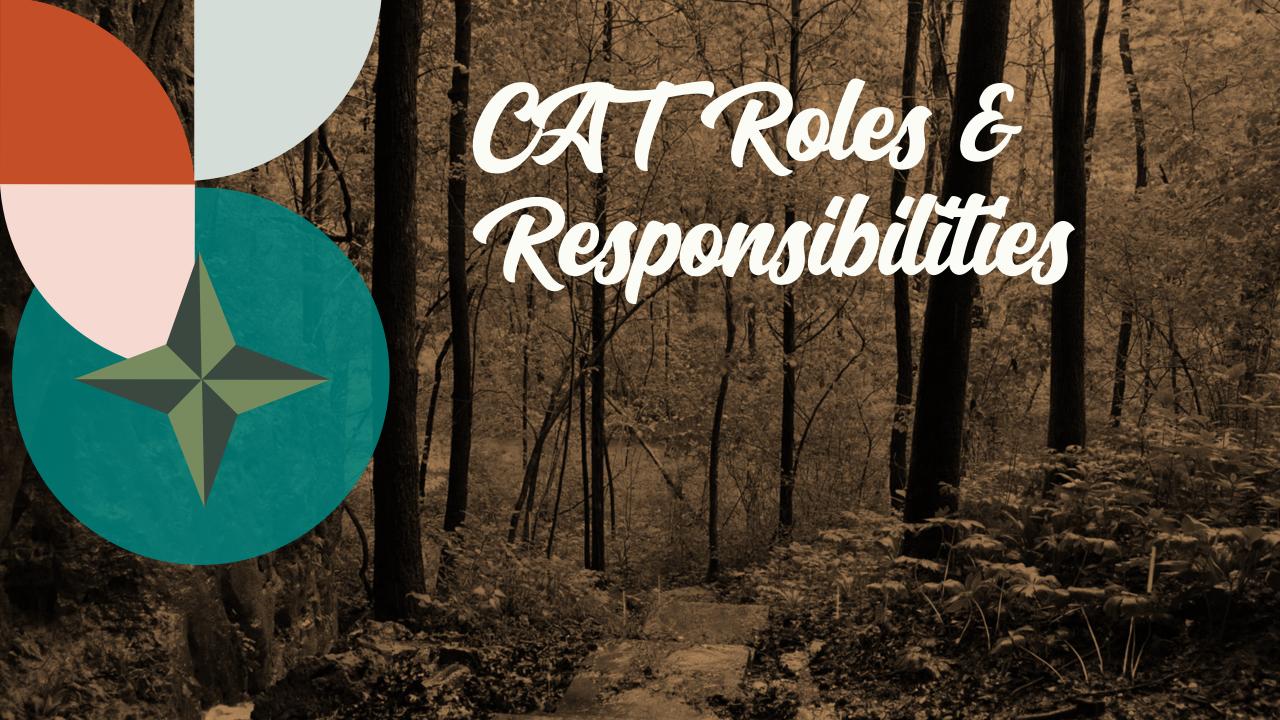
Introductions

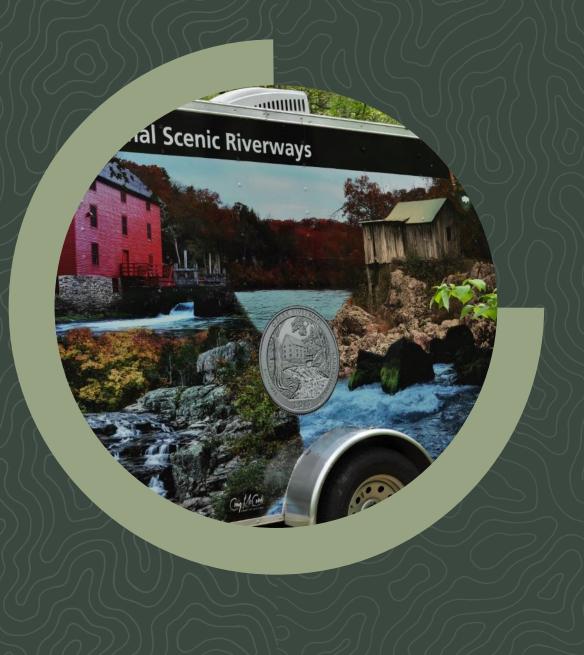


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Activities To

Date/Next Steps

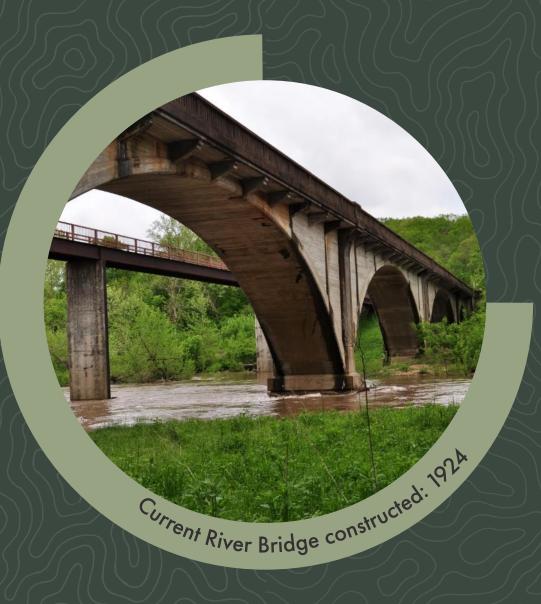




CAT Roles & Responsibilities

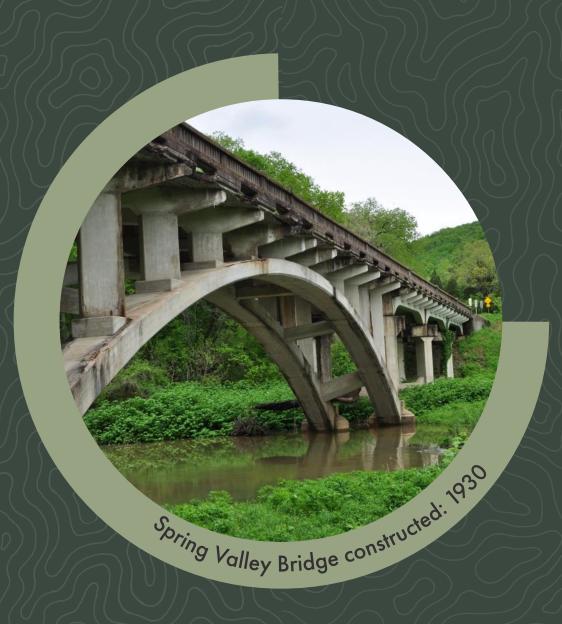
- Represent a cross section of local and regional interests
- Provide input at major milestones after Core Team meetings and before going to the public
- Disseminate information and educate others within your organization and public at large





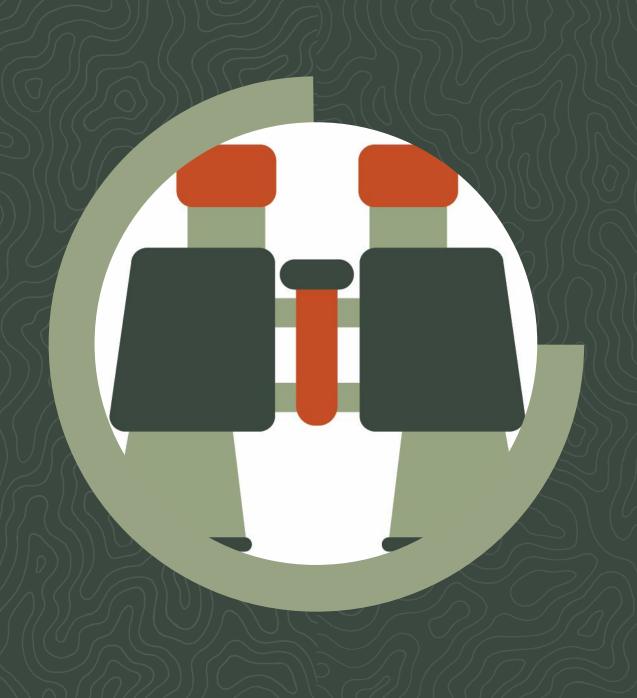
Project History

- Current River Bridge constructed in 1924 and Spring Valley Bridge in 1930
- MoDOT conducted Bridge Rehabilitation Study in 2019
- Rehabilitation study identified 23 conceptual bridge alternatives



Project History

- MoDOT conducted charette with NPS and others during rehabilitation study
- Recommended that the alternatives be the subject of a NEPA study



What is MEPA?

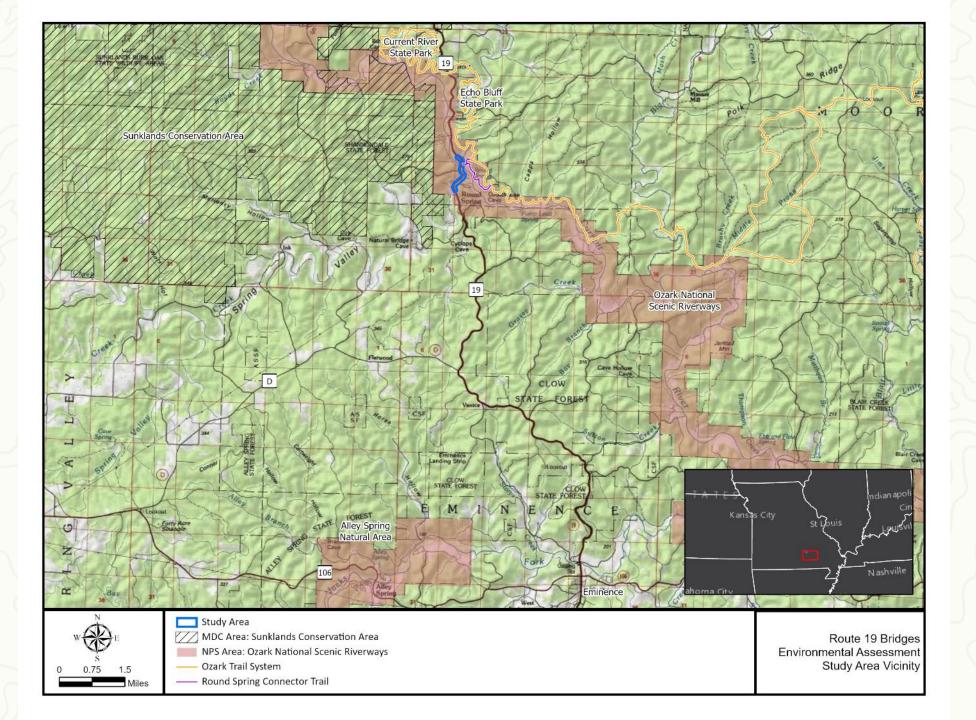
- National Environmental Policy Act (NEPA)
- A U.S. environmental law that promotes the enhancement of the environment including the natural, social and economic environment
- Required for major federal actions
- Informed decision-making and good planning

What is an EA?

- Environmental Assessment (EA)
- Done to determine whether or not an action is a "major federal action significantly affecting the quality of the human environment."
- End result is recommendation for a preferred alternative to carry into design documented in a Finding of No Significant Impact (FONSI) or further evaluation under an Environmental Impact Statement (EIS)



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Activities to Date

- Kicked NEPA study off in July 2020
- Review of rehabilitation report/data
- Data collection
- Initiated agency coordination



Activities to Date

- Developed project identity
- Developed public involvement plan
- Developed project website



SHANNON COUNTY

Activities to Date

- Developed initial Purpose and Need •
- Screened conceptual alternatives
- Held first Core team meeting November 30 •
- Held first CAT meeting (today)



- Submit Purpose and Need to the Federal Highway Administration (FHWA) in December
- Public meeting in January 2021
- Second Core team meeting in February 2021



- Conduct field work in Spring/Summer 2021
- Third and final Core team meeting Fall 2021
- Second CAT meeting late Fall 2021



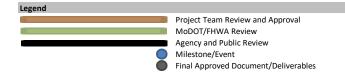
- Public Hearing Winter 2021
- Finalize EA Spring 2022

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• If no significant impacts prepare FONSI in early Summer 2022

Study Schedule																									
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Study Deliverables

Work Plan
 Stakeholder Involvement Plan
 Purpose and Need Statement
 Range of Alternatives Summary
 Field Survey Tech Memos

6. Preferred Alternative Recommendation Summary
 7. Environmental Assessment
 8. Environmental Assessment Errata with Comments
 9. Public Hearing Report
 10. FONSI

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Bridge and Roadway Conditions

- Roadway functional classification rural minor arterial
- Roadway alignment is poor
- Two lane section with no shoulders and only one lane on Current River Bridge
- Bridge Sufficiency Ratings:
 - Current River: 33.5%
 - Spring Valley: 33.1%
- Both bridges are structurally deficient
- Moderate to heavy scour at Current River Bridge

Current River Bridge Photos





Spring Valley Bridge Photos









Traffic/Safety

- Current AADT (2020) 700
- Construction year AADT (2025) 721
- Design year AADT (2045) 797
- Crash Rates:
 - Route 19 (2015-2019):
 - 652 Crashes/HMVMT
 - Statewide Average (Two Lane):
 - 209 Crashes/HMVMT

"Crashes/HMVMT" = Crashes per 100 Million Vehicle Miles Traveled



- Blue dots = Minor Injury and Green dots = Property Damage Only (PDO)
- One PDO on the Current River Bridge
- One PDO and one Minor Injury on the Spring Valley Bridge

Round Spring

Esri, HERE, Garmin, iPC | USDA FS.

 Two PDO and two Minor Injury on Northbound approach to the Spring Valley Bridge

ROUND SPRING CAVERN

ROUND SPRING CAVERN is noted for its beautiful and varied formations and the length of its passages—two arms of approximately one half mile each.

It was first opened to the public for tours in 1932 and remained a commercial show cave until the mid-1960's when it became a part of Ozark National Scenic Riverways.

Park Rangers conduct scheduled guided tours during the summer months. Inquiry should be made at ranger stations. Groups are kept to a small size to limit impact on the cave. Visitors ouring the cave use hand-carried lamps which ill not alter the cave's environment or effect its dlife. Visitors may see grotto salamanders, salamanders, eastern pipestrelle bats and onally frogs.

The gray bat, Myotis grisesco An occasional visitor to Round Spring Cav numbers of these bats were responsible for cave's guano deposits. As an endangered species, it has special r remaining park habitat.

Water/TEE

- Crossings of Current River and Spring Valley Creek
- 100-year floodplain
- Wetlands within Current River portion of study area
- Current River is designated as an Outstanding
 Natural Resource Water and priority watershed
- One water well within study area
- Caves/Karst geology
- Suitable Indiana Bat habitat corridor-wide
- Endangered Ozark hellbender



Land Use

- Entire study area within the NPS ONSR Section 4(f)
- Large public use areas
- One private business



- Within Three Bridges historic district eligible for NRHP
- Current River Bridge and Spring Valley Bridge are eligible for the NRHP
- Section 4(f) resources
- Documented archaeological sites

Minority Populations & Poverty

- No permanent residents within study area
- No minority or low-income populations within study area

Hazardous Materials

• No known hazardous material sites within study area

Conceptual Atternatives

Note: This Conceptual Alternative has been Revised Since the Date of This Meeting (December 17, 2020).



C-1A COST: \$12.7 MILLION DESCRIPTION · New bridge on existing alignment. A temporary two-lane bridge will be built prior to construction of the new bridge and will be removed once construction of the new bridge is complete. Existing pedestrian bridge removed. SITE VICINITY 19 Alternative Location Winona 1603 **ADVANTAGES** Matches location of existing bridge.

- Final configuration is a single bridge over the channel.
- Less permanent roadway work.
- Uses a two-lane bridge during construction.

DISADVANTAGES

- Additional cost for temporary bridge.
- Pedestrian bridge must be removed prior to construction of the two-lane temporary bridge.
- Utilities on the existing pedestrian bridge must be relocated.
- No separate pedestrian bridge.

Note: This Conceptual Alternative has been Revised Since the Date of This Meeting (December 17, 2020).



C-1B COST: \$9.1 MILLION DESCRIPTION • New bridge on existing alignment. A temporary two-lane bridge will be built prior to construction of the new bridge and will be retained as a pedestrian bridge once construction of the new bridge is complete. Existing pedestrian bridge removed. SITE VICINITY 19 Alternative Location Winona 160 **ADVANTAGES**

- Matches location of existing bridge.
- Less permanent roadway work.
- Uses a two-lane bridge during construction.
- Separate pedestrian bridge provided.

DISADVANTAGES

- Final configuration is two bridges over the channel.
- Pedestrian bridge must be removed prior to construction of the two-lane temporary bridge.
- Utilities on the existing pedestrian bridge must be relocated.
- Additional cost for temporary bridge.

Note: This Conceptual Alternative has been Revised Since the Date of This Meeting (December 17, 2020).

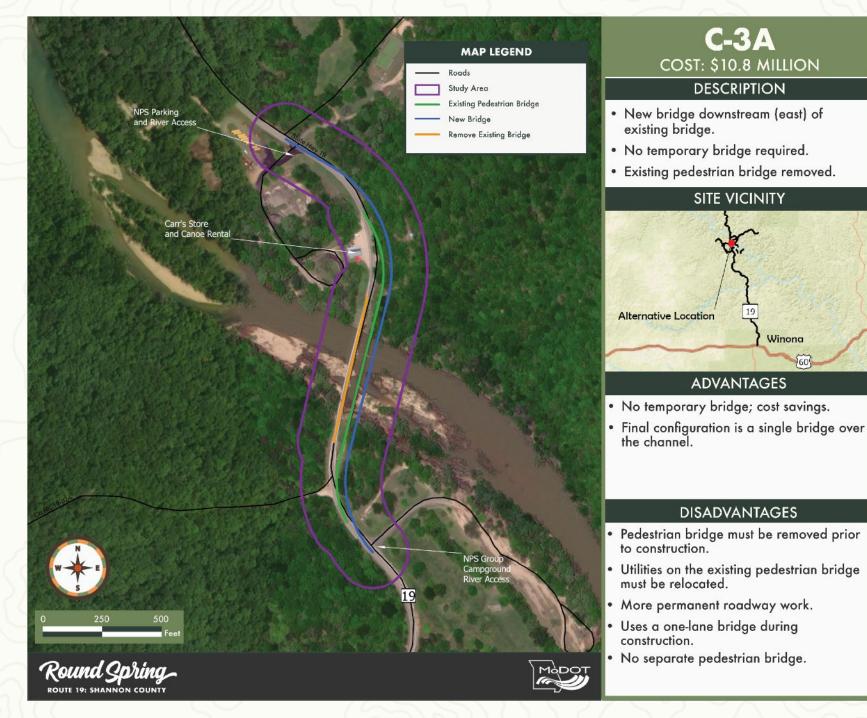




- Matches location of existing bridge.
- Less permanent roadway work.
- · Separate pedestrian bridge provided.

DISADVANTAGES

- Final configuration is two bridges over the channel.
- Pedestrian bridge must be removed prior to construction of the one-lane temporary bridge.
- Utilities on the existing pedestrian bridge must be relocated.
- Uses a one-lane bridge during construction.
- Additional cost for temporary bridge.

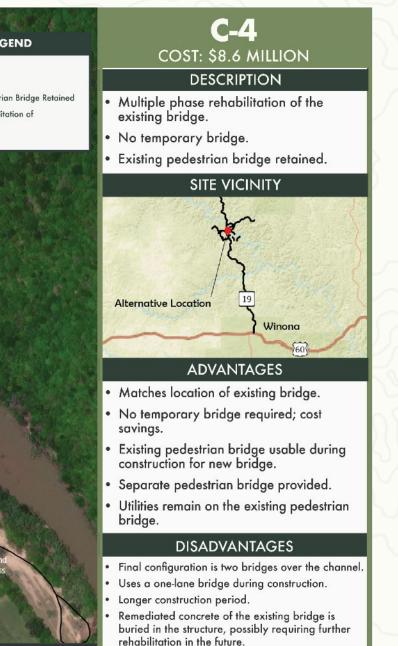






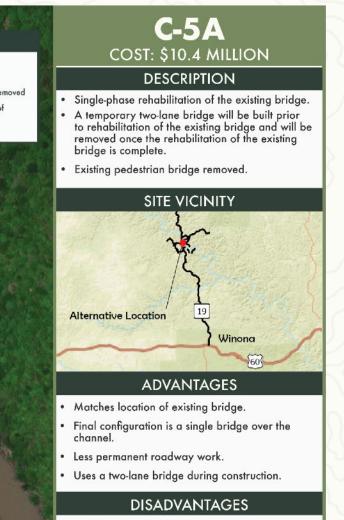
ROUTE 19: SHANNON COUNTY





 Shorter life expectancy compared to a new bridge.



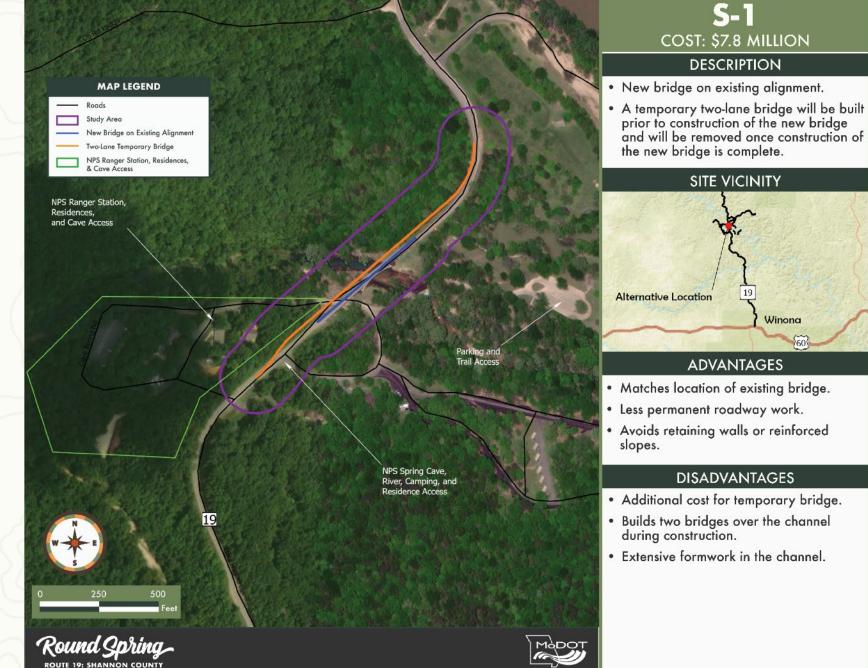


- Additional cost for temporary bridge.
- Remediated concrete of the existing bridge is buried in the structure, possibly requiring further rehabilitation in the future.
- Shorter life expectancy compared to a new bridge.
- Pedestrian bridge must be removed prior to construction of the two-lane temporary bridge.
- Utilities on the existing pedestrian bridge must be relocated.
- No separate pedestrian bridge.



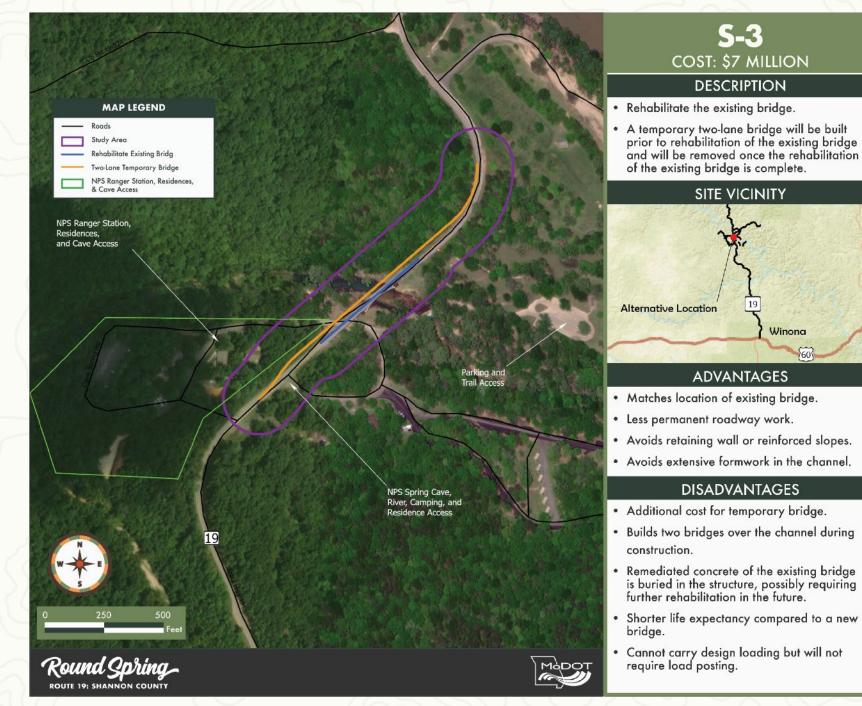
C-5B COST: \$8.4 MILLION DESCRIPTION Single phase rehabilitation of the existing bridge. A temporary two-lane bridge will be built prior to rehabilitation of the existing bridge and will be removed once the rehabilitation of the existing bridge is complete. Existing pedestrian bridge retained. SITE VICINITY **Alternative Location** Winona 60 **ADVANTAGES** · Matches location of existing bridge. Less permanent roadway work. Uses a two-lane bridge during construction. Existing pedestrian bridge usable during rehabilitation of the existing bridge. Separate pedestrian bridge provided. Utilities remain on the existing pedestrian bridge. **DISADVANTAGES** · Final configuration is two bridges over the channel. Additional cost for temporary bridge.

- Remediated concrete of the existing bridge is buried in the structure, possibly requiring further rehabilitation in the future.
- Shorter life expectancy compared to a new bridge.



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- Improve the condition of the existing crossings
- Improve the functionality of the existing crossings
- Importance to local and regional connectivity



Needs

Current River Bridge Alternatives

			CURRENT RIVER BRIDGE CONCEPTUAL ALTERNATIVES										
7			NO ACTION	NEW BRIDGE ON EXISTING ALIGNMENT		NEW BRIDGE ON OFFSET ALIGNMENT		REHABILITATE EXISTING					
			No-Build	Alternative C-1A	Alternative C-1B	Alternative C-2	Alternative C-3A	Alternative C-3B	Alternative C-4	Alternative C-5A	Alternative C-5A		
				Two-lane temporary bridge removed after construction, existing pedestrian bridge removed	Two-lane temporary bridge retained as permanent pedestrian bridge after construction, existing pedestrian bridge removed	One-lane temporary bridge retained as permanent pedestrian bridge after construction, existing pedestrian bridge removed	Downstream (east), no temporary bridge, existing pedestrian bridge removed	Downstream (east), no temporary bridge, existing pedestrian bridge remains	Multiple phase rehabilitation of existing bridge, no temporary bridge, existing pedestrian bridge remains	Single phase rehabilitation of existing bridge, two-lane temporary bridge removed after construction, existing pedestrian bridge removed	Single phase rehabilitation of existing bridge, two-lane temporary bridge removed after construction, existing pedestrian bridge retained		
8		Does the bridge meet current design standards? (minimum 11' lanes, paved shoulders)	N	Y	Y	Y	Y	Y	Y	Y	Y		
S	Existing Bridge is in Poor Condition	Can the deck, substructure, and superstructure improved to good condition?	N	Y	Y	Y	Y	Y	Y	Y	Y		
/		Is the lifespan of bridge greater than 75 Years?	Ν	Y	Y	Y	Y	Y	N	N	Ν		
		Does the bridge meet current LRFD seismic design criteria?	?	Y	Y	Y	Y	Y	?	?	?		
		Can safe bike and pedestrian accommodations be provided?	Y	Y	Y	Y	Y	Y	Y	Y	Ŷ		
	Regional and Local Connectivity	Is access to recreational facilities maintained? (Current River Canoe Access, Round Spring National Park, Round Spring Cave)	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	Regioi Cor	Can construction be completed with limited traffic impacts? (e.g. closures or detours)	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Reasonable Alternative?			Yes (By rule)	Yes	Yes	Yes	Yes	Yes	No - Does not meet all Need elements	No - Does not meet all Need elements	No - Does not meet all Need elements		

Spring Valley Bridge Alternatives

			NO ACTION	NEW BRIDGE ON EXISTING ALIGNMENT	NEW BRIDGE ON OFFSET ALIGNMENT	REHABILITATE EXISTING
2			No-Build	Alternative S-1 Two-lane temporary bridge removed after construction	Alternative S-2 Upstream (northwest), no temporary bridge	Alternative S-3 Temporary bridge removed after construction
5		Does the bridge meet current design standards? (minimum 11' lanes, paved shoulders)	N	Y	Y	Y
82	Existing Bridge is in Poor Condition	Can the deck, substructure, and superstructure improved to good condition?	N	Y	Y	Y
2	ing Bri or Con	Is the lifespan of bridge greater than 75 Years?	N	Y	Y	N
Needs	Exist Po	Does the bridge meet current LRFD seismic design criteria?	?	Y	Y	?
N		Can safe bike and pedestrian accommodations be provided?	N	Y	Y	Y
2	Regional and Local Connectivity	Is access to recreational facilities maintained? (Current River Canoe Access, Round Spring National Park, Round Spring Cave)	Y	Y	Y	Y
$\widehat{\mathcal{A}}$	Regior Cor	Can construction be completed with limited traffic impacts? (e.g. closures or detours)	Y	Y	Y	Y
Reasonable Alternative?			Yes (By rule)	Yes	Yes	No - Does not meet all Need elements

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Discussion/Questions

https://www.modot.org/roundspringbridges