

GENERAL FACT SHEET

Reavis Barracks Road and Green Park Road Intersection and Bridge Conceptual Study

St. Louis County Project No. AR-1289



Overview: St. Louis County Department of Transportation is planning to improve the Reavis Barracks Road/Green Park Road Intersection.

Proposed Improvements:

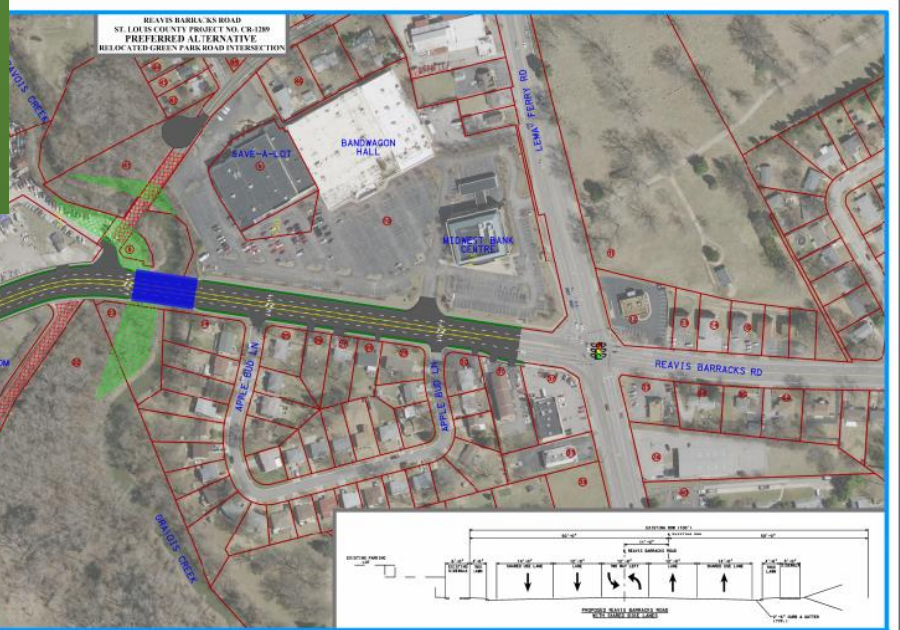
- New bridge on Reavis Barracks Road over Gravois Creek will not cause an increase in the existing flood elevations.
- Roadway surface will be raised above the 10-year flood event.
- Center turn lane added between Grant's Trail and Lemay Ferry Road to improve both vehicle access and safety.
- Improved pedestrian, bicycle and ADA access along the length of project provides improved connectivity to Grant's Trail.

Preferred Alternative – Reavis Barracks Road Bridge replaced; Green Park Road ends in a cul-de-sac east of the existing bridge. Reavis Barracks/Green Park signal relocated and Green Park Road west of Reavis Barracks is realigned north and adjacent to Grant's Trail. The trail crossing signal will be reconfigured to be part of the new intersection traffic signal.

Pros: improved bridge performance during flood events; reduced long-term maintenance costs, most efficient traffic operations; improved pedestrian/bicycle/ADA safety

Cons: temporary impacts to users of Grant's Trail; eliminates direct access to Reavis Barracks for properties north/east of existing Green Park Bridge; not the option with the lowest initial cost

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ADDITIONAL ALTERNATIVES INVESTIGATED

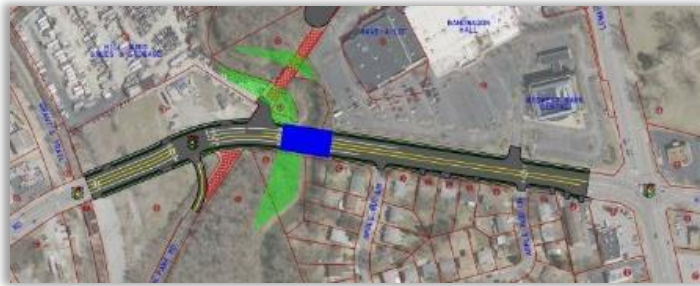


Alternative One

Alternative One – Reavis Barracks and Green Park Road bridges replaced in-kind; addition of a dedicated southbound left turn lane and signal modifications at the intersection.

Pros: maintains existing connectivity to Green Park Road

Cons: Highest anticipated initial cost; no anticipated improvement in bridge performance during flood events; increased maintenance cost; does not improve traffic flow



Alternative Two

Alternative Two – Reavis Barracks Road Bridge replaced; Green Park Road ends in a cul-de-sac east of the existing bridge. Intersection layout is modified to allow Green Park Road to intersect Reavis Barracks Road at a ninety-degree angle, with traffic signals modified accordingly.

Pros: Lower anticipated initial cost; anticipated improvements in bridge performance during flood events; improved traffic flow; reduce potential conflict points

Cons: eliminates direct access to Reavis Barracks for properties north and east of existing Green Park Bridge



Alternative Three

Alternative Three – Reavis Barracks Road Bridge replaced; Green Park Road ends in a cul-de-sac east of the existing bridge. Intersection layout and traffic signal modified to provide Continuous “T” operation for northbound Green Park Road traffic.

Pros: Lower anticipated cost; anticipated improvements in bridge performance during flood events; improved traffic flow; reduce potential conflict points

Cons: eliminates direct access to Reavis Barracks for properties north and east of existing Green Park Bridge

Schedule: Currently the project is wrapping up the Conceptual Study Phase. The following is a brief summary of upcoming tasks with estimated target dates:

- Apply for Federal Funding 2020
- Anticipated Federal Approval 2020
- Request for Proposals 2021
- Engineering Design 2022
- Right-of-Way Acquisition 2023
- Bid Letting 2024
- Construction 2025

SUMMARY RANKING OF ALTERNATIVES				
Criteria	Alternative			
	Preferred	One	Two	Three
Hydraulics	1	2	1	1
Traffic Operations	1	3	2	2
Safety	1	4	3	2
Cost	2	3	1	1
Ranking 1-4 with 1 being the best performance or lowest cost				