

## Welcome

The Kentucky Transportation Cabinet (KYTC) welcomes you to tonight's public meeting for intersection improvements at Roseville Road and Trojan Trail, including the bridge replacement over South Fork Beaver Creek. The purpose of this meeting is to present information on the project and collect your input on the proposed design alternative.

Your involvement is very much appreciated, and we encourage you to visit the information display for the proposed improvements and talk with the project team members. The KYTC recognizes that a vital part of the design process comes from public involvement. Please take the time to look around, ask questions, and submit the "Comment Form" provided. Please leave the completed form in the box near the sign-in table as you leave. If you would like to take the form home and submit it at a later date, please feel free to do so. Pre-addressed envelopes have been provided. All written comments will be accepted until October 31, 2024.

## Project Summary

The project corridor begins on Roseville Road (KY 249) at mile marker 15.45 about 500 feet south of South Fork Beaver Creek and continues north 800 feet to mile point 15.6 approximately 250 feet north of Trojan Trail. This section of roadway also has a newly constructed sidewalk along Roseville Road to provide pedestrian access to the schools and other facilities on Trojan Trail.

For traffic leaving Glasgow on Roseville Road the project corridor is a straight section of roadway on a 4.5% downgrade. Even though this section of highway is within a 35 MPH speed limit the existing roadway characteristics are conducive to higher speeds. During the KYTC's last traffic count near this corridor in 2022 it was determined that Roseville Road carries 3934 vehicles per day (vpd) and Trojan Trail had 2601 vpd. Given the amount of traffic at this intersection and that Trojan Trail is the only access to Barren County High School, which results in a high percentage of young inexperienced drivers the KYTC recognizes this corridor has the potential for severe crashes.

As the design team worked through the preliminary design phase it was apparent that a roundabout would be the most appropriate intersection for this location. A roundabout will require all motorist to slow down and pay attention as they navigate the intersection. Due to the lower speeds and the geometry of the roundabout's approach roads, roundabouts both reduce the total number of crashes and significantly reduce the severity of crashes that occur. Roundabouts are not new to the United States or Kentucky and after studying the before and after crash data the following statistics demonstrate the improved safety when compared to stop controlled and signalized intersections.

- 37% Reduction in All Crashes
- **90% Reduction in Fatal Crashes**
- 75% Reduction in Injury Crashes
- 40% Reduction in Pedestrian Injuries

The roundabout will be designed using specialized software that simulates vehicle turning movements to ensure the roundabout can accommodate large trucks and busses.

The replacement of the existing bridge over South Fork Beaver Creek will also be included in this project. The existing bridge is narrow with virtually no shoulder to provide buffer between traffic and the bridge rails. The proposed bridge will consist of two – 11 foot wide driving lanes and 4 foot wide shoulders between the driving lanes and the bridge rails. This is approximately 6 feet wider than the existing bridge.

## Cost Estimates

Funding for this project has been set aside with a federal earmark. The following is a breakdown of the estimated cost.

Right of Way	\$375,000
Utility Relocation	\$1,020,000
Construction	<u>\$3,300,000</u>
Total	\$4,695,000

## Project Goals

During the early stages of a project's evaluation, the Project Development Team identifies goals for the project. These project goals include:

- To improve safety and reduce/prevent serious injury and fatality crashes.
- To provide a roadway facility that meets current design standards.

## Purpose and Need

The existing bridge on KY 249 over South Fork Beaver Creek, located at MP 15.51, has a bridge rating of 79.2. The bridge width is 23'-4" consisting of 11' lanes and less than 1.5' for shoulders on either side. The bridge is in close proximity to the intersection of Trojan Trail, a city route that accesses the Barren Co. High School and Middle School. The intersection has no turn lanes along KY 249 and a non-controlled pedestrian crossing. To obtain capacity for an improved intersection, the bridge would either need to be widened for an auxiliary lane or reconstructed off alignment for an improved intersection such as a roundabout.

The Project will replace the existing bridge along KY 249 and provide increased mobility for the intersection of KY 249 and Trojan Trail.

## Next Steps

After tonight's meeting, the following are the steps to be taken for this project:

1. The Project Team will meet to review and consider all comments received from this public meeting and appropriate considerations will be implemented into the final design.
2. Final design, including geotechnical drilling, drainage design, right of way plans, and bridge plans will commence in late 2024.
3. It is anticipated that the acquisition of right of way will begin in 2025.
4. Once the needed right of way has been acquired the necessary utility relocations will occur.
5. After the utilities have been relocated bids will be solicited, and the road construction contract will be awarded.

Thank you for your attendance and the input you have provided for this important highway project.

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