

## Previous Design on KY 53

This section of KY 53 was previously studied and several alternatives were developed to improve the roadway from KY 1315 (Old Hanna Road) to approximately the I-71 Interchange.



A public meeting was held on March 27, 2024 to review this selected alternative and gain input from roadway users and the public at large.

Since the public meeting held in March 2024, additional alternatives have been developed based on design decisions that incorporate input from local officials and the public. We are here today to review these alternatives and gain input.

## Proposed Design Improvements

- Updated Typical Section
- Improved Horizontal & Vertical Geometry
- Safety Improvements
- Dedicated Turn Lanes
- Addition of Center Turn Lane
- Improved Pedestrian Access

## Contact Us

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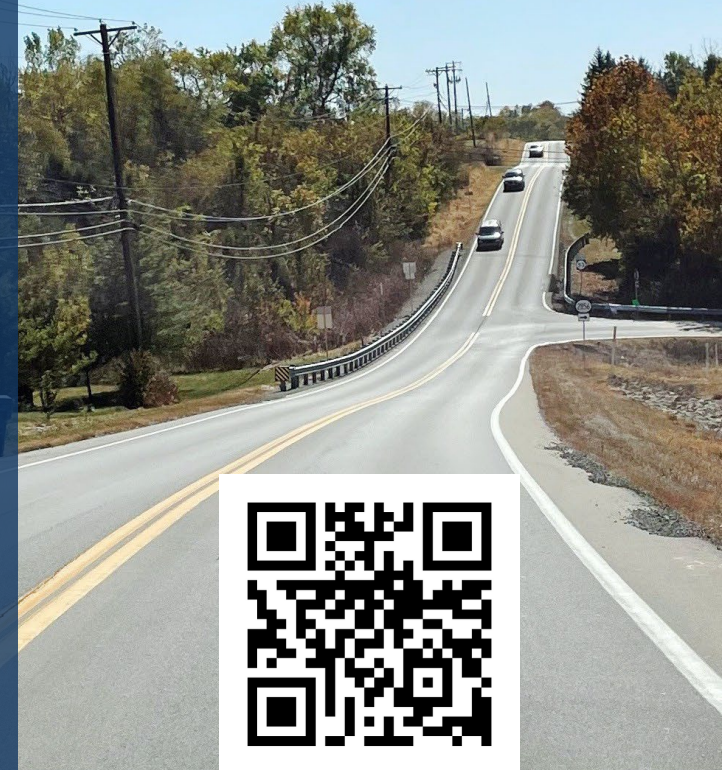
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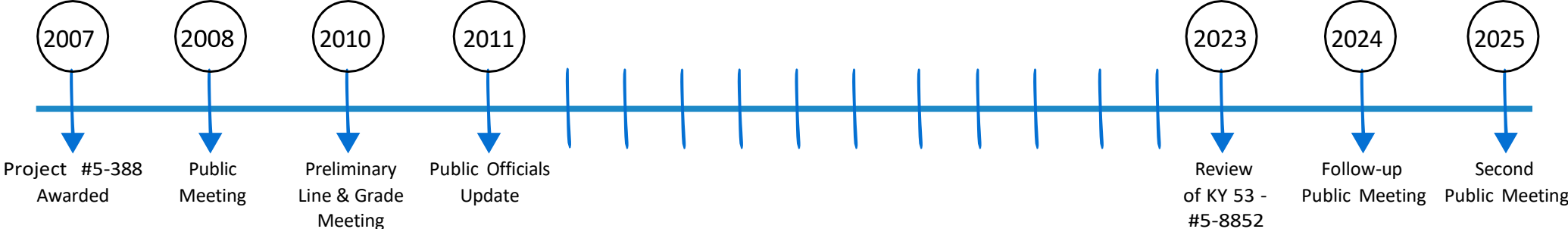
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Oldham County, KY

# KY 53 ROADWAY IMPROVEMENT

KYTC Item #5-8852.00





## EXISTING CONDITIONS

Located in Oldham County, KY 53 is a two-lane minor arterial with little to no existing shoulders. The posted speed limit varies as the character of the roadway transitions from an urban area with businesses that is highly congested, to a more rural area that includes farmland and neighborhoods on rolling topography.

## EXISTING GEOMETRICS

The corridor exhibits inadequate horizontal (bends/curves) and vertical (hills/valleys) geometry. There are 3 posted speed limits within this section of KY 53. The speed limits vary up to 20 mph, putting consistency and driver expectation at risk. The stopping sight distance is greatly out of acceptable range for the posted speed limit. Having insufficient vertical curves creates issues with sight distance, impacting the ability to see when entering or exiting approach roads and entrances.

## EXISTING CRASH DATA

Crashes were analyzed for the five-year period from January 1, 2018 to December 31, 2022. During this period, 131 total crashes occurred, not including parking lot and animal collisions. Of the 131 crashes, 28 crashes resulted in injury, and one resulted in a fatality. Single vehicle collisions made up the highest percentage of overall collisions at 44%, followed by rear end collisions at 24% and angle collisions at 15%. The crashes occurred along the entire corridor and in all elements and roadway conditions.

## TRAFFIC VOLUMES

Traffic volumes on KY 53 near KY 1315 are fairly low and increase as the project moves from south to north toward I-71. Traffic is expected to increase due to planned projects in the vicinity, including Oldham Reserve, residential developments, and the newly constructed I-71 Interchange.

## PROPOSED ALTERNATIVES

### Alternative 1

- ▶ Original preferred alternate without the connector to KY 22 E
- ▶ Construction Costs: \$\$  
Utility Impacts: Medium  
Right of Way Impacts:  
Potential Parcels Affected: 116  
Potential Relocations: 5

### Alternative 2

- ▶ Follows existing alignment on KY 53, upgrading to 45 mph design standards
- ▶ Construction Costs: \$\$\$  
Utility Impacts: High  
Right of Way Impacts:  
Potential Parcels Affected: 162  
Potential Relocations: 35

### Alternative 3

- ▶ Modified Alternative 1 per survey comments, Updated tie in at KY 22 E
- ▶ Construction Costs: \$\$  
Utility Impacts: Medium  
Right of Way Impacts:  
Potential Parcels Affected: 104  
Potential Relocations: 8