Improve KY 32 between KY 504 and KY 173

Recommended Priority #1

Spot B

Rowan County, KY 32 Milepoint 16.60 – 17.80

Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
No	1	6	8	Data Not Available	Data Not Available

Description:

This spot improvement addresses KY 32 between KY 504 and KY 173. The portion of KY 32 just east of KY 504 is predominantly straight with a curve at the western end. Geometrically this portion of KY 32 is one of the better sections of road between Elliottville and Newfoundland. On the other hand, this portion of KY 32 has one of the highest crash histories. The majority of public comments attribute these crashes to passing vehicles. The crash history includes a recent fatality as a result of a head on collision at Milepoint 16.90.

Between Milepoint 17.30 and KY 173 (Milepoint 17.80) the geometrics of KY 32 include many steep grades, inadequate curves and entrances with inadequate sight distances. Sight lines are hampered by large embankments along the southern portion of KY 32. Crashes in this area have been primarily from vehicles entering or leaving entrances.

This section of KY 32, which operates at a Level of Service (LOS) C, has 10-foot wide lanes and 2-foot wide shoulders. The speed limit is 55 miles per hour and the estimated daily traffic is 2,410 vehicles.

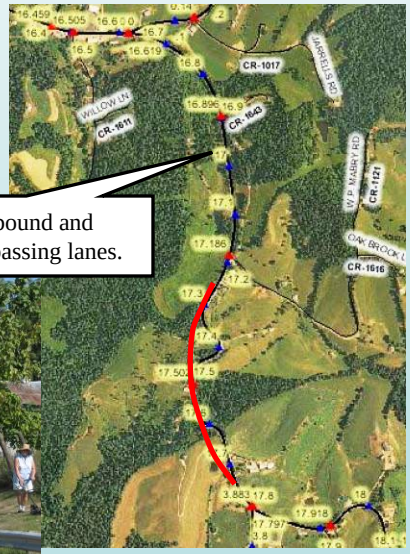
Recommendations: Realign KY 32 to correct geometric deficiencies where appropriate. Add eastbound and westbound passing lanes between MP 16.85 and MP 17.25. In the short term, add better signage.

Purpose: Improve Safety

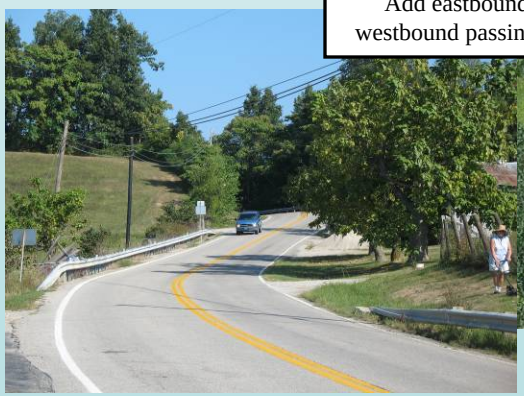
Cost:

Design	$370,000
Right of Way	$1,890,000
Utilities	$960,000
Construction	$3,700,000

Aerial of KY 32 with proposed alignment.



View looking west on KY 32



Intersection Improvement at KY 504

Recommended Priority #2

Spot A

Rowan County, KY 32 Milepoint 16.62

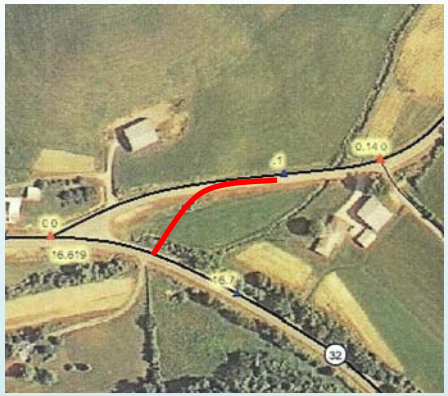
Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
No	0	0	0	Data Not Available	Data Not Available

Description:

KY 504 meets KY 32 at a three-leg unsignalized intersection in the community of Elliotville. KY 504 provides access to many communities north of Elliotville. An embankment stands on the western side of KY 504, limiting sight distance for turning vehicles. In addition, KY 504 intersects KY 32 at a skew, pushing turning vehicles into the opposing lane. Input from the public suggests vehicles turning left on KY 32 drive through the opposing lane of KY 504 and vehicles turning left on KY 504 queue in the opposing lane of KY 504.

In this area, KY 32 has 10-foot wide lanes and 2-foot wide shoulders with a speed limit of 55 miles per hour. The estimated daily traffic volume is 3,670 vehicles. This segment operates at a Level of Service (LOS) C.

Aerial of KY 32 with proposed alignment.



Recommendations: Realign KY 504 at the KY 32 intersection.

Purpose: Improve Safety

Cost:

Design	$60,000
Right of Way	$120,000
Utilities	$80,000
Construction	$600,000

View east (left) and west (right) at KY 504 intersection

Realign Segment of KY 32

Recommended Priority #3

Spot J

Elliott County, KY 32 Milepoint 7.05 – 7.65

Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
2.38	0	1	5	5	6

Description:

This segment of KY 32 is composed of a series of deficient reverse curves just east of Charlie Stafford Road. Two curves have a driving speed of less than 25 mph. Sight distances at the intersections and entrances are severely limited. Travel lanes are 9-foot wide with 2-foot wide shoulders. The road carries an estimated 960 vehicles per day at Level of Service (LOS) B.

The Critical Rate Factor is greater than 1.00. Crash types are primarily single vehicle off-road collisions. Guardrails show evidence of numerous impacts.

View looking west on KY 32

Aerial of KY 32 with proposed alignment.

Recommendations: Realign KY 32 to correct geometric deficiencies.

Purpose: Improve Safety

Cost:

Design	$140,000
Right of Way	$480,000
Utilities	$320,000
Construction	$1,400,000

Realign Segment of KY 32

Recommended Priority #4

Spot K

Elliott County, KY 32 Milepoint 7.80-8.20

Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
1.34	0	1	4	3	1

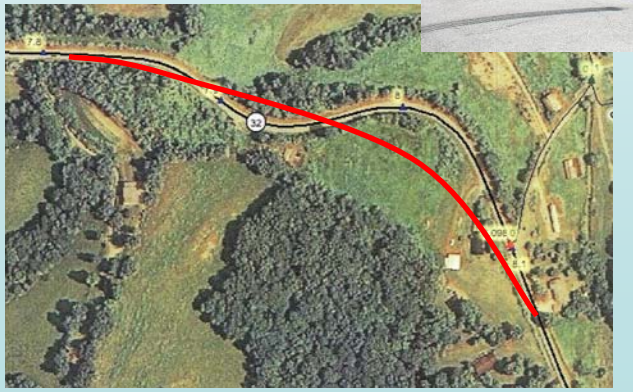
Description:

This segment of KY 32 is composed of a series of deficient reverse curves just west of Simmons Loop. Sight distances at the intersections and entrances are severely limited. Travel lanes are 9-foot wide with 2-foot wide shoulders. The road carries an estimated 960 vehicles per day at Level of Service (LOS) B.

The Critical Rate Factor is greater than 1.00. Crash types are a mix between single vehicle off-road collisions and angle collisions from vehicles entering and leaving entrances.

View looking west on KY 32

Aerial of KY 32 with proposed alignment.



Recommendations: Realign KY 32 to correct geometric deficiencies.

Purpose: Improve KY 32

Cost:

Design	$270,000
Right of Way	$660,000
Utilities	$240,000
Construction	$2,700,000

Realign Segment of KY 32

Recommended Priority #5

Spot C

Rowan County, KY 32 Milepoint 17.80 – 18.15

Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
No	0	2	2	3	3

Description:

This segment of KY 32 is composed of a series of deficient reverse curves just east of KY 173. Sight distances at the intersections and entrances are limited to the east. At the intersection of KY 173 and KY 32, there is a service station which generates some traffic. Travel lanes are 10-foot wide with 2-foot wide shoulders. The road carries an estimated 470 vehicles per day at Level of Service (LOS) B.

Crash types are primarily from vehicles entering or leaving entrances at the western portion of the reverse curves.

In lieu of realigning KY 32 the vertical curves east of the KY 173 intersection could be adjusted to improve sight distances. The construction cost of this improvement would be approximately $700,000. This improvement would not fix the deficient curves and is only $300,000 less than a complete realignment. It is recommended to realign this portion of KY 32.

View east from KY 173

Aerial of KY 32 with proposed alignment.

Recommendations: Realign KY 32 to correct geometric deficiencies and add a left turn lane on KY 32 east of the KY 173 intersection.

Purpose: Improve Safety

Cost:

Design	$100,000
Right of Way	$630,000
Utilities	$320,000
Construction	$1,000,000

Realign Segment of KY 32

Recommended Priority #6

Spot E

Rowan County, KY 32 Milepoint 20.35 – 20.85

Crash History				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
NO	0	0	1	6	4

Description:

This segment of KY 32 is composed of a series of deficient reverse curves just west of Lower Caney Creek Road. Two curves have a driving speed of less than 25 mph. Sight distances at the intersections and entrances are severely limited. Travel lanes are 10-foot wide with 2-foot wide shoulders. The road carries an estimated 470 vehicles per day at Level of Service (LOS) B.

View west from Lower Caney Creek Road

Recommendations: Realign KY 32 to correct geometric deficiencies. In the very short term, cut down the vegetation across from Lower Caney Creek; they are blocking the sight line.

Purpose: Improve Safety

Cost:

Design	$100,000
Right of Way	$510,000
Utilities	$240,000
Construction	$1,000,000

Aerial of KY 32 with proposed alignment.

Realign Segment of KY 32

Recommended Priority #7

Spot F

Rowan County, KY 32 Milepoint 21.15 – 21.35

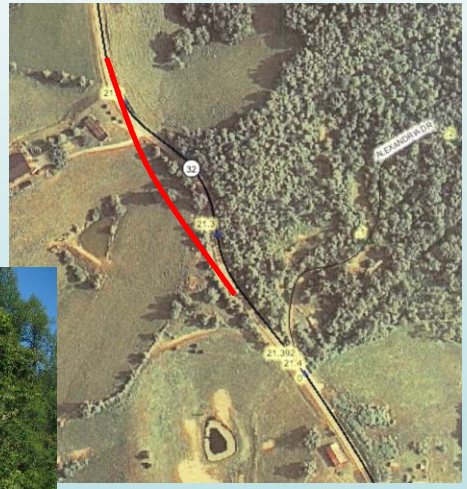
Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
NO	0	1	2	2	2

Description:

This portion of KY 32 sits just west of Alexandria Drive. This road segment has a compound curve that runs around a cemetery. Although the curves are deficient, they are not uncommon for this road. According to the crash history, vehicles are driving off the road at the beginning of the curve.

In this area, KY 32 has 10-foot wide lanes and 2-foot wide shoulders with a speed limit of 55 miles per hour. The estimated daily traffic volume is 470 vehicles. This segment operates at a Level of Service (LOS) B.

Aerial of KY 32 with proposed alignment.



Recommendations: Realign KY 32 to correct geometric deficiencies. In the very short term, provide better signage.

Purpose: Improve Safety

Cost:

Design	$100,000
Right of Way	$240,000
Utilities	$160,000
Construction	$1,000,000

View west from Alexander Drive

Realign Segment of KY 32 & Improve Sand Gap Rd Intersection

Recommended Priority #8

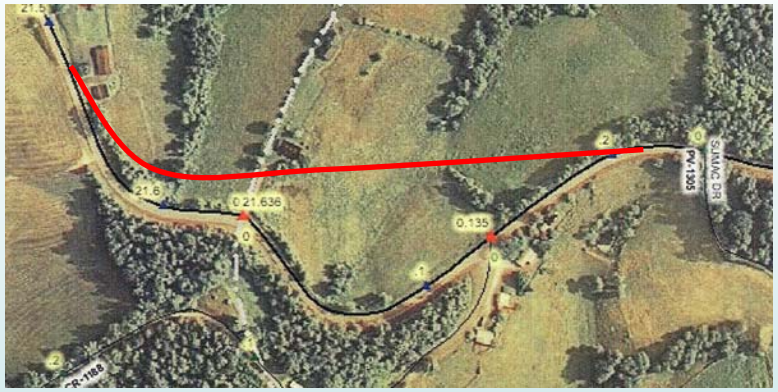
Spot G — Rowan County & Elliott County , KY 32 Milepoint 21.50-21.636 & MP 0.00-0.20

Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
No	0	1	2	3	2

Description:

This segment of KY 32 is composed of a series of deficient reverse curves at the Rowan and Elliott County line. One curve has a driving speed of less than 25 mph. Sight distances at the Sand Gap Road intersection are limited due to vegetation at the east corner. Travel lanes are 10-foot wide with 2-foot wide shoulders. The road carries an estimated 470 vehicles per day at Level of Service (LOS) B.

Aerial of KY 32 with proposed alignment.



Recommendations: Realign KY 32 to correct geometric deficiencies. In the very short term, cut down vegetation blocking sight line at the Sand Gap Road intersection.

Purpose: Improve Safety

Cost:

Design	$150,000
Right of Way	$480,000
Utilities	$320,000
Construction	$1,500,000

View west (left) and east (right) at Sand Gap Road intersection

Realign Segment of KY 32

Recommended Priority #9

Spot H

Elliott County, KY 32 Milepoint 4.85-5.05

Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
No	0	0	0	2	1

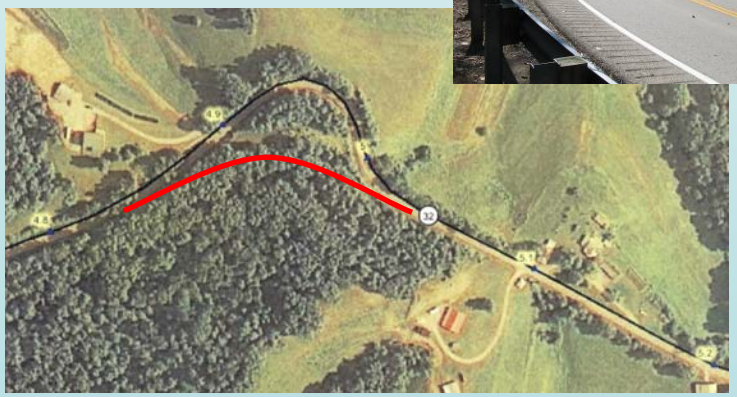
Description:

This segment of KY 32 is composed of two sharp reverse curves. One curve has a driving speed of less than 25 mph and the other is not much better. Sight distances are severely limited. Guardrails show evidence of numerous impacts.

Travel lanes are 9-foot wide with 2-foot wide shoulders. The road carries an estimated 490 vehicles per day at Level of Service (LOS) B.

View looking east on KY 32

Aerial of KY 32 with proposed alignment.



Recommendations: Realign KY 32 to correct geometric deficiencies.

Purpose: Improve Safety

Cost:

Design	$60,000
Right of Way	$120,000
Utilities	$80,000
Construction	$600,000

Realign Segment of KY 32

Recommended Priority #10

Spot I

Elliott County, KY 32 Milepoint 6.30-6.80

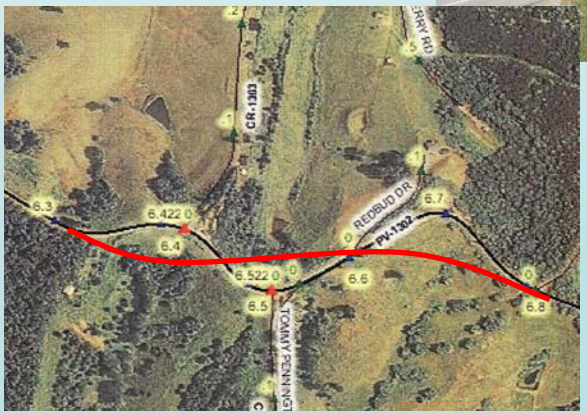
Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
No	0	1	2	5	5

Description:

This segment of KY 32 is composed of a series of reverse curves near Thornsberry Road. Sight distances at the intersections and entrances are severely limited. Guardrails show evidence of numerous impacts. Travel lanes are 9-foot wide with 2-foot wide shoulders. The road carries an estimated 490 vehicles per day at Level of Service (LOS) B.

View west from Thornsberry Road

Aerial of KY 32 with proposed alignment.



Recommendations: Realign KY 32 to correct geometric deficiencies.

Purpose: Improve Safety

Cost:

Design	$260,000
Right of Way	$750,000
Utilities	$400,000
Construction	$2,600,000

Realign Segment of KY 32

Recommended Priority #11

Spot D

Rowan County, KY 32 Milepoint 18.80-19.55

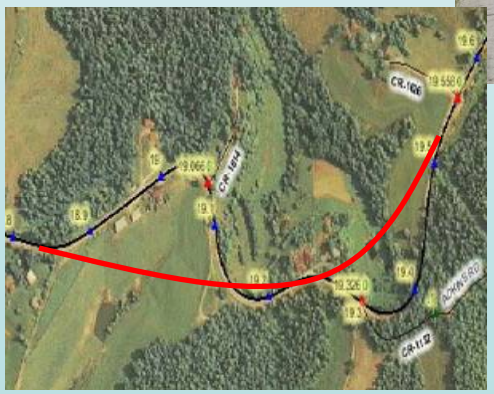
Crash History (2004-2007)				Geometric Deficiencies	
CRF > 1	Fatal	Injury	Total	Curves	Sight Distance
NO	0	0	1	6	2

Description:

This segment of KY 32 is composed of a series of deficient reverse curves just west of Port Cemetery Road. One curve has a driving speed of less than 25 mph. Sight distances at the intersections and entrances are severely limited. Travel lanes are 10-foot wide with 2-foot wide shoulders. The road carries an estimated 470 vehicles per day at Level of Service (LOS) B.

View looking west on KY 32

Aerial of KY 32 with proposed alignment.



Recommendations: Realign KY 32 to correct geometric deficiencies.

Purpose: Improve Safety

Cost:

Design	$290,000
Right of Way	$750,000
Utilities	$400,000
Construction	$2,900,000