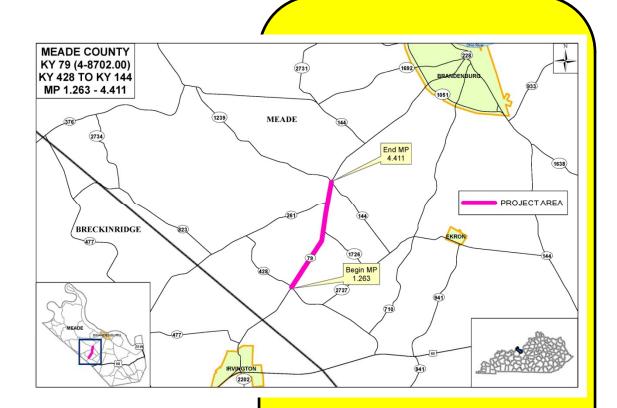
D_{ata}

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Analysis



Scoping Study



KY 79, Meade County Brandenburg-Irvington Rd Reconstruction

From KY 428 to KY 144 Item No. 4-8702.00

Prepared by KYTC
District 4-Charlie Allen

August 2015





I. PRELIMINARY PROJECT INFORMATION							
County:	Meade	Item No.:		4-8702.00			
Route Number(s):	KY 79	Road Name	:	Brandenburg-Irvington Rd		Rd	
Program No.:	906820	UPN:	FD04	082	0079	001-005	
Federal Project No.:	N/A	Type of Wo	rk:		Reconstructi	on	
2014 Highway Pl	an Project Description:	•					
-	ROM KY 428 TO KY 144.						
Beginning MP:	1.263	Ending MP:	4.411	Pr	oject Length:	3.148	
In TIP: Yes Vo			Reconcile	Project Info	ormation in C	Clearview	
State Class.: Primary	y Secondary	F	Route is on:	NHS	NN	Ext Wt	
Functional Class.:	Urban 🗹 Rural Arterial	_	Truck Class.:	AAA 🔻	% Trucks:	8.5	
MPO Area: Radcliff/Eliza	bethtown	—	Terrain:	Rolling			
ADT (current):	<u>2436</u> 2014						
Access Control:	 ☐ None	Fully Controlled	Partial	Spacing:			
Median Type:		ded (Type):	T ai tiai	Spacing.		*	
Existing Bike Accommo			▼ Ped:	Sidewal	- Ik		
Posted Speed:	35 mph	✓ 55	5 mph	Other (S	Specify):		
KYTC Guidelines Prelim	•	55 1	MPH Proposed	-			
			GEOMETRIC				
Roadway Data:	<u>EXISTING</u>	·	TICES**				
No. of Lanes	<u>2</u>		<u>2</u>	Existing	g Rdwy. Plans	available?	
Lane Width	<u>9'</u> <u>3'</u>	· ·	<u>min</u>	✓ Ye			
Shoulder Width			<u>8</u>		Year of Plans:	1930	
Max. Superelevation***	<u>Field Measure</u>	-	<u>5%</u>	✓		cast Requested	
Minimum Radius***	<u>820'</u>)65 <u>'</u>	Da	ate Requested:	7/2/2015	
Maximum Grade	<u>Field Measure</u>	_	<u>5%</u>		Mapping/Survey	Requested	
Minimum Sight Dist.	Field Measure	·	<u>05 ft</u>	Da	ate Requested:		
Sidewalk Width(urban) +	<u>N/A</u>	<u>NA</u>		Type:		▼	
Clear-zone T	<u>30'</u>	<u>3</u>	<u> 30'</u>				
Project Notes/Design Exce	eptions?						
Bridge No.: [‡]	(Bridge #1)	(Brid	ge #2)				
Sufficiency Rating							
Total Length				Existing	Geotech Data	Available?	
Width, curb to curb					Yes No		
Span Lengths				_	,,,,,,		
Year Built							
Posted Weight Limit				Deto	our Length(s):		
Structurally Deficient?							
Functionally Obsolete?							
Existing Bridge Type							
Based on proposed Design Sp *AASHTO's A Policy on Geom +AASHTO's Roadside Design Gu	netric Design of Highways and Stree	ets					

II. PROJECT PURPOSE AND NEED

A. Legislation

The following funding was listed in the 2014 General Assembly's Enacted Highway Plan. The only funding available in the current biennium is for Design.

Funding	Phase	Year	Amount
SPP	D	2016	\$1,040,000
SPP	R	2017	\$3,100,000
SPP	U	2017	\$1,700,000
SPP	С	2018	\$9,500,000

B. Project Status

Design funds have been requested. There are multiple six year plan projects along this corridor including one that is in the R/W phase from KY 144 to KY 1051 (4-8705). There is a project to reconstruct from KY 477 to KY 428 (4-8703) as well which does have reliable funding for Design. There is also a project in the current highway plan (4-394) on US 60 in Irvington that will affect the intersection of KY 79 and US 60. This project is currently in the R/W phase.

C. System Linkage

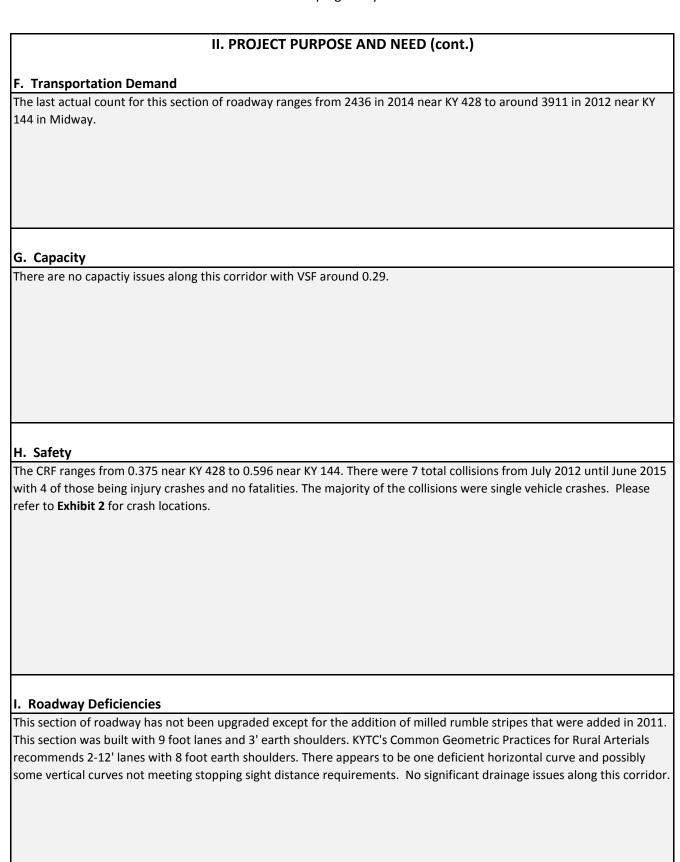
This segment of KY 79 connects the cities of Irvington and Brandenburg. The classification of the roadway is rural arterial and is not likely to change as a result of this project. The Meade County Riverport opened in 2014 and KY 79 is a likely route for farmers from the west who wish to access the new grain operation located at this site.

D. Modal Interrelationships

There are no dedicated bicycle and pedestrian facilities or no known bicycle and pedestrian planning for this area. No railroads along this corridor. However, a new riverport has been built in Brandenburg and a grain operation opened for business in 2014. This could increase truck traffic especially grain trucks along this route. This is not a part of the freight intermodal network.

E. Social Demands & Economic Development

There has not been any significant growth along this corridor and is not expected to grow much in the near future. Most of the growth is isolated to KY 1051 in Brandenburg.



III. PRELIMINARY ENVIRONMENTAL OVERVIEW				
A. Air Quality Project is in: Attainment area Nonattainment or Maintenance Area PM 2.5 County STIP Pg.#: TIP Pg.#:				
5				
B. Archeology/Historic Resources				
Known Archeological or Historic Resources are present				
The archaeological database showed no previous surveys or known sites occur within the project area. If a USACE permit is required a survey will be required within the permit area for archaeological and historic properties.				
C. Threatened and Endangered Species				
There are listed species within the project area. If a USACE permit is required the entire corridor will need a Habitat Assessment and possibly a BA.				
D. Hazardous Materials Potentially Contaminated Sites are present Potential Bridge or Structure Demolition				
The properties within the corridor were mostly residential or agricultural. There do not appear to be any potentially contaminated sites present. Any structures acquired will be assessed for asbestos containing material.				
E. Permitting Check all that may apply:				
A USACE permit is not likely to be needed to construct this project. All waters would be isolated waters.				
F. Noise Are existing or planned noise sensitive receptors adjacent to the proposed project? Yes No Is this considered a "Type I Project" according to the KYTC Noise Analysis and Abatement Policy? Yes No				
No noise analysis will be required for this project				
G. Socioeconomic Check all that may apply: Low Income/Minority Populations Pelocations Local Land Use Plan available There are no socioeconomic concerns, since this is a wholely state funded project the Environmental Justice EO does not apply.				
H. Section 4(f) or 6(f) Resources				
The following are present on the project: Section 4(f) Resources Section 6(f) Resources There are no Section 4(f) or 6(f) Resources known within the project corridor.				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Anticipated Environmental Document: None (Completely State funded)				

IV. PROJECT SCOPING, NEEDS & PURPOSE					
A. Scoping & Need:					
KY 79 from KY 428 to KY 144 at Midway has very narrow lanes and little to no shoulder. The corridor has a narrow right of way and numerous entrances to farms and residences. The horizontal and vertical curvature meets design standards in a majority of the corridor with only one horizontal deficiency. The primary need would be to widen the lanes and shoulders to better facilitate truck traffic.					
B. Draft Project Purpose:					
The purpose of this study is to improve the safety, mobility and connectivity between Irvington and Brandenburg.					

V. PROJECT ESTIMATE & METHODOLOGY						
Estimate Methodology:	Current Estimate					
The cost estimates are derived from the adjacent project 4-8705.00 assuming the	<u>Phase</u>	<u>Estimate</u>				
exact same typical section and cost/mile. I used the following cost	Planning					
estimates/mile: D=\$320,000/mile R=\$925,000/mile U=\$530,000/mile and	Design	\$1,000,000				
C=\$3,500,000/mile.	R/W	\$2,900,000				
	Utilities	\$1,700,000				
	Const	\$11,000,000				
	Total	\$16,600,000				
	•					

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

Company Name - Meade County RECC

Contact - David Poe

Address - PO Box 489, Brandenburg, KY 40108

Phone No. - 270-422-2162

Company Name - Brandenburg Telecom, LLC

Contact - Kyle Dalton

Address - 200 Telco Drive, Brandenburg, KY 40108

Phone No. - 270-422-2121

Company Name - Time Warner Cable
Contact - Deno Barbour

Address - 4701 Commerce Crossing Drive, Louisville, KY

Phone No. - 502-357-4400

Company Name - Meade County Water District

Contact - Joe Bartley

Address - 1003 Armory Place, Brandenburg, KY 40108

Phone No. - 270-422-5006

Company Name -

Contact -Address -Phone No. -

Company Name -

Contact -Address -Phone No. -

VII. TABLES AND EXHIBITS

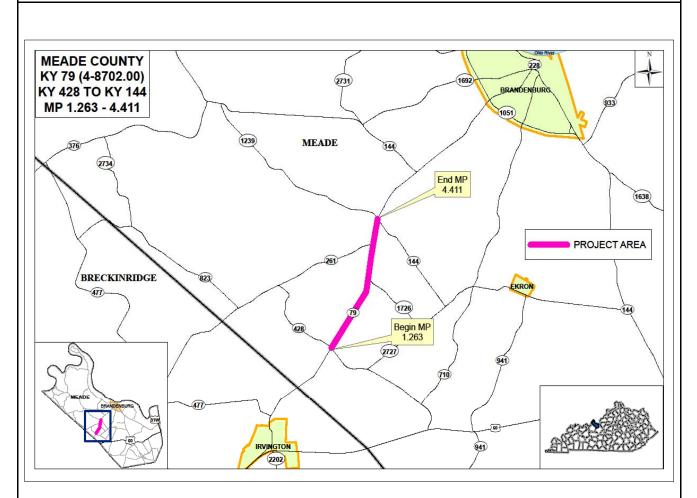


EXHIBIT 1: PROJECT LOCATION MAP

VII. TABLES AND EXHIBITS (cont.) MEADE COUNTY KY 79 (4-8702.00) KY 428 TO KY 144 COLLISIONS MP 1.263 - 4.411 2731 BRANDENBURG 7/1/12 - 6/30/15 DATA 1051 1239 MEADE 7 Collisions 4 Injuries 0 Fatalities End MP 4.411 1638 0 Angle (1) Head On (1) 1736 448 0 Rear End (2) 823 Single Vehicle (3) 1726 Begin MP 1.263 2727 BRECKINRIDGE 477

EXHIBIT 2: CRASH MAP