I. PRELIMINARY PROJECT INFORMATION							
County:	Campbell/Pendleton	Item No.:			6-189.00 & 6-8706.00		
Route Number(s):	US 27	Road Name:			Alexandria Pike		
Program No.:	7961701D	UPN:	В		96 27 172		
Federal Project No.:		Type of W	ork:		Reconstruction		
	lan Project Description:						
Reconstruction of US 2	27 from Butler in Pendle	ton County	to South of K	Y 154 i	n Campbell County		
Beginning MP:	17.92	Ending MP:		1.9	Project Length: 4		
Functional Class.:	Urban  Rural		State Class.:		✓ Primary ☐ Secondary		
	Arterial $\blacksquare$		Route is on:		✓ NHS ✓ Nat'l Truck Network		
MPO Area: OKI			Truck Class.:	į	AAA ▼		
In TIP: 🗸 Yes	No		% Trucks:		10.6		
ADT (current):	<u>7400</u>		Terrain:	Rolling			
Access Control:	Fully Controlled	✓ Permit	Partial		Spacing: ▼		
Median Type:	✓ Undivided □ Divi	ded (Type):					
Existing Bike Accomod	dations: Shared Lane	•		Ped:	Sidewalk		
Posted Speed:	35 mph45 mph	<b>√</b> !	55 mph		Other (Specify):		
. – KYTC Guidelines Prelir	,		MPH Propose	ed Desi			
	•		ON GEOMETI				
Roadway Data:	EXISTING		RACTICES*	NIC			
No. of Lanes	<u>2</u>		<u>2</u>		Existing Rdwy. Plans available?		
Travelled Way Width	<u>-</u> <u>11</u>		<u> </u>		✓ Yes □ No		
Shoulder Width	<u>4</u>		<u>10</u>		Year of Plans: 1947,87,98		
Max. Superelevation**	<u>-</u> 6.00%		<u>==</u> 6%		✓ Traffic Forecast Requested		
Minimum Radius**	3819		1330		Date Requested: 1/15/2008		
Maximum Grade	<u>5625</u> 6%		<u>4%</u>				
Minimum Sight Dist.	1200		<del>470</del> 570		✓ Mapping Requested  Date Requested: 8/6/2006		
Sidewalk Width(urban)							
Clear-zone***	<u>na</u> <u>6</u>		<u>na</u> 44		Type: Aerial		
	_		<u>44</u>				
Project Notes/Design Exc	· -		10 ****		111 2 1 2 1		
*Based on proposed Design Speed,	**AASHTO's A Policy on Geometric D	esign of Highways	and Streets, ***AASI	HTO's Roa	dside Design Guide		
<b>Bridge No.*:</b> Sufficiency Rating Total Length	(Bridge #1)	1)	Bridge #2)		Existing Geotech data available?  Yes No		
Width, curb to curb							
Span Lengths							
Max. Span Length					* If more than 2 bridges are present on project,		
Year Built					see attached sheets.		
Posted Weight Limit							
Structurally Deficient?							
Functionally Obsolete?							

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SPP SPP ne initial d	Utilities Construction  lesigns have been in	2014 2016 vestigated. No	\$4,500,000 \$38,000,000 ot enough Phase I design
SPP  ne initial d	Construction  designs have been in	vestigated. No	\$38,000,000  ot enough Phase I designers.
ne initial d	lesigns have been in	vestigated. No	et enough Phase I desig
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II. PROJECT	<b>PURPOSE</b>	AND NEED	(cont.)	ĺ
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## G. Capacity

This two lane roadway has the capacity to handle much more than the projected traffic along this route with only modest geometric improvements. Improvements are needed to improve this route to handle increased truck traffic into/out of Pendleton County.

### H. Safety

There have been 31 accidents along this corridor from 6-1-2009 to 6-1-2012. Of these 31 accidents 13 of them were vehicle collisions with an animal.

### I. Roadway Deficiencies

Shoulder width, intersection sight distance, access control and grades do not meet current design standards for an arterial roadway. The addition of truck climbing lanes in the 1980's improved the roadway and decreased delays, but these situations can be improved with a modern roadway.

### **Purpose and Need Statement:**

US 27 is the major route for freight into and out of Pendleton County, and is the most direct route to the population centers of Cincinnati and Lexington. Despite the addition of truck climbing lanes there are deficiencies in shoulder width, access management, intersection sight distance, or vertical alignment.

Purpose: Upgrade US 27 to current design standards.

Item No. 6-189.00 6-8706.00 County Pendleton/Campbell

III. PRELIMINARY ENVIRONMENTAL OVERVIEW				
_				
A. Air Quality			_	
Project is in:	Attainment area	✓ Nonattainment or Maintenance Area	PM 2.5 County	
STIP Pg.#:		TIP Pg.#:		
B. Archeology/H	listoric Resources			
Known Archeo	logical or Historic Resou	rces are present		
		present, the project will require additiona		
	•		storical architecture resources exist within	
the corridor; impa	ct will be dependant	on chose alignment.		
C. Threatened ar	nd Endangered Spe	cies		
		Running Buffalo Clover		
D. Hazardous M	atorials			
	ateriais ntaminated Sites are pre	sent  Potential Bridge or Structure	Domolition	
		mer location of gas pumps	Demonuori	
mere is the poten	tial to impact the for	mer location of gas pamps		
G. Permitting	<u> </u>		_	
		he US MS4 area Floodplain Impacts	Navigable Waters of the US Impacts	
	its likely to be requir			
A	CE LON ACE NV	V ACE IP DOW IWQC	Special Use Waters	
H. Noise				
Are noise sensitive	e receivers adjacent t	o the proposed project? 🔽 Yes 🗌 No		
I. Socioeconomi	С			
Check all that may		me/Minority Populations affected	ions Local Land Use Plan available	
There may be a fe		The remarks a rested	NAME OF THE PARTY	
·				
	2/0 -			
J. Section 4(f) or	• •			
The following are pro		Section 4(f) Resources oric structure and recrational area.	Section 6(f) Resources	
Potential to impact 2	+(1) resources with histo	one structure and recrational area.		
Anticipated	Environmental Docu	ment: None (Completely State fund	led)	
		(completely state fullo	'	

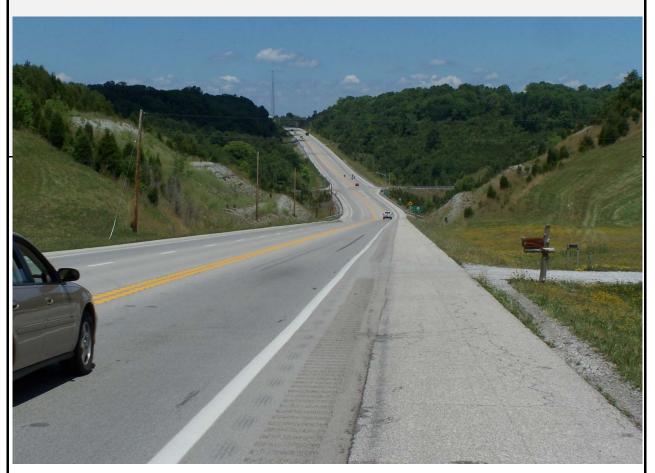
### IV. POSSIBLE ALTERNATIVES

### A. Alternative 1: No Build

No reconstruction and only routine maintainance would not allow for additional shoulder width or an improved vertical alignment. There would be no improvement to the movement of goods and services through the area.

## B. Alternative 2

Reconstruct US 27 to the current standards for a 2-lane arterial highway, includes improved shoulders, sight distance, and vertical geometry. Truck climbing lanes would be improved, access management would be implemented (1200 foot spacing instead of access buy permit), and turn lanes would be constructed at the intersections.



Planning Level Cost Estimate:

Total	\$50,750,000
Const	\$38,000,000
Utilities	\$4,500,000
R/W	\$6,000,000
Design	\$2,250,000
<u>Phase</u>	<u>Estimate</u>

# IV. POSSIBLE ALTERNATIVES (cont.)

### B. Alternative #3

Reconstruct US 27 to the current standards for a 4-lane divided arterial highway.



Planning Level Cost Estimate:

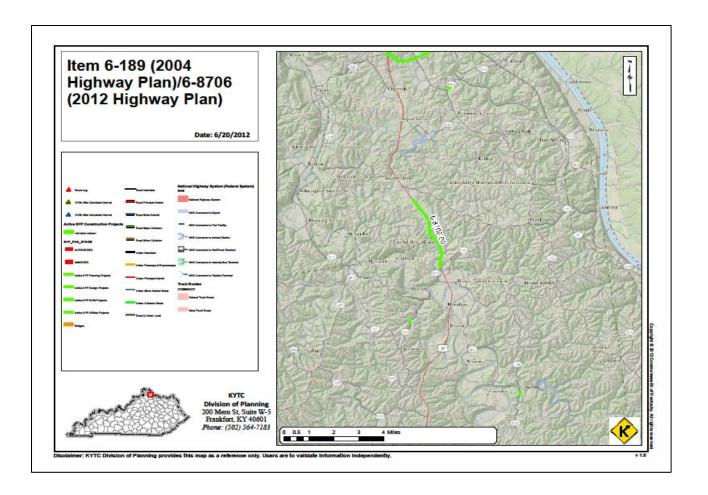
<u>Estimate</u>
\$4,400,000
\$12,400,000
\$4,300,000
\$77,000,000
\$98,100,000

### V. Summary

Traffic demand does not meet the threshold to warrant a 4-lane divided highway. The projected 2028 traffic would have to double, or the existing traffic in Pendleton County would have to increase 300% for a 4-lane divided highway to meet warrents. The funds allocated to this project by the State Legistlature would be sufficient to complete the improved 2-lane alternate.

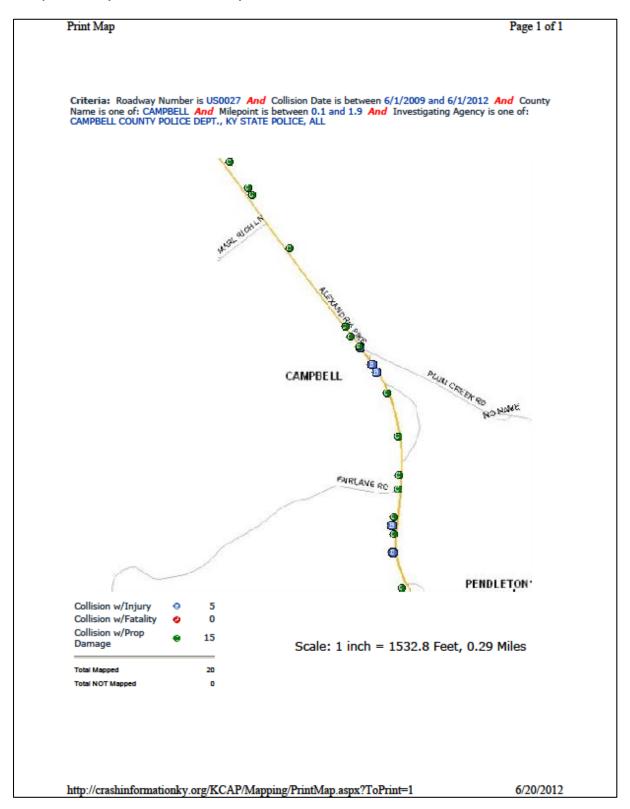
Alt#	Description	D (\$)(Fund)	R (\$) <u>(Fund)</u>	U (\$)(Fund)	C (\$)(Fund)	Total (\$mil)
1	No Build	0	0	0	0	\$0.00
2	2-lane alternate	2,250,000	6,000,000	4,500,000	38,000,000	\$50,750,000.00
3	4-lane alternate	4,400,000	12,400,000	4,300,000	77,000,000	\$98,100,000.00
-	Current Hwy Plan Estimated Cost					\$51,500,000.00
-	Current Pre-Con Estimated Cost					\$50,750,000.00

# VI. Tables and Exhibits



## VI. Tables and Exhibits (cont.)

## **Campbell County Accident Location Map**



## **Pendleton County Accident Location Map**

