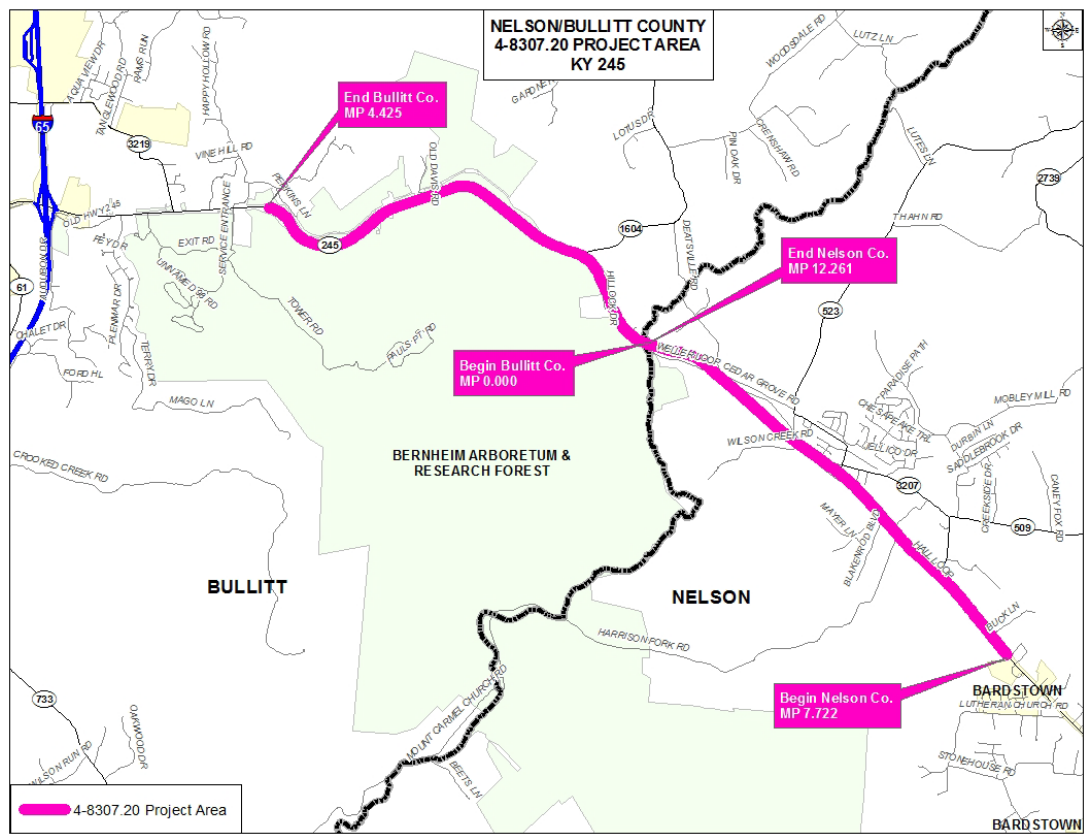


# Data Needs Analysis



## Scoping Study



KY 245, Nelson/Bullitt County  
From Flaget Hospital to  
Happy Hollow Road  
Item No. 4-8307.20

Prepared by the KYTC  
Division of Planning and  
KYTC District 4

August 2022



**I. PRELIMINARY PROJECT INFORMATION**

<b>County:</b>	Nelson/Bullitt	<b>Item No.:</b>	4-8307.20
<b>Route Number(s):*</b>	KY 245	<b>Road Name:</b>	New Shepherdsville Road
<b>Program No.:</b>	7966403D	<b>UPN:</b>	FD04 Nelson KY245 7.7-12.2/0-4.4
<b>Federal Project No.:</b>		<b>Type of Work:</b>	Minor Widening

**2022 Highway Plan Project Description:**

Widen KY 245 from Flaget Hospital (MP 7.722) through county line (MP 12.261 Nelson/MP 0.000 Bullitt) to Happy Hollow Rd (MP 4.425)

<b>Beginning MP:</b>	7.722/0.00	<b>Ending MP:</b>	12.261/4.425	<b>Project Length:</b>	8.964
<b>In TIP:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<a href="#">Use PDP/CHAF to Verify Project Data</a>			
<b>State Class.:</b>	<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary	<b>Route is on:</b>	<input type="checkbox"/> NHS <input checked="" type="checkbox"/> NN <input type="checkbox"/> Ext Wt		
<b>Functional Class.:</b>	<input checked="" type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural Arterial	<b>Truck Class.:</b>	AAA	<b>% Trucks:</b>	17.907
<b>MPO Area:</b>	Not Applicable	<b>Terrain:</b>	Rolling		
<b>ADT (current):</b>	15265 2021				
<b>Access Control:</b>	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial	<b>Spacing:</b>			
<b>Median Type:</b>	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):				
<b>Existing Bike Accommodations:</b>	None	<b>Ped:</b>	<input type="checkbox"/> Sidewalk		
<b>Posted Speed:</b>	<input type="checkbox"/> 35 mph <input type="checkbox"/> 45 mph <input checked="" type="checkbox"/> 55 mph <input type="checkbox"/> Other (Specify):				
<b>KYTC Guidelines Preliminarily Based on :</b>	55 MPH Proposed Design Speed				

**COMMON GEOMETRIC**

Roadway Data:	EXISTING	PRACTICES**	
No. of Lanes	2	3/5	<a href="#">Existing Rdwy. Plans available?</a>
Lane Width	12'	12'	
Shoulder Width	12'	8' Usable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Max. Superelevation***	9.30%	8%	Year of Plans: 1973
Minimum Radius***	1432'	960'	<input type="checkbox"/> <a href="#">Traffic Forecast Requested</a>
Maximum Grade	2.86%	5%	Date Requested:
Minimum Sight Dist.	603'	495'	<input type="checkbox"/> Mapping/Survey Requested
Sidewalk Width(urban)	N/A	N/A	Date Requested:
Clear-zone <sup>†</sup>	30'	30'	Type: <input type="text"/>

Project Notes/Design Exceptions?

<b>Bridge No.:#</b>	None in Project Area (Bridge #2)	
Sufficiency Rating		<a href="#">Existing Geotech Data Available?</a>
Total Length		
Width, curb to curb		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Span Lengths		
Year Built		
Posted Weight Limit		Detour Length(s):
Structurally Deficient?		
Functionally Obsolete?		
Existing Bridge Type		

\*If more than one road is included in the project, include additional sheets.  
 \*\*Based on proposed Design Speed  
 \*\*\*AASHTO's A Policy on Geometric Design of Highways and Streets  
 †AASHTO's Roadside Design Guide  
 ‡If more than two bridges are located on the project, include additional sheets.

**II. PROJECT PURPOSE AND NEED**

**A. Legislation**

Project has local and legislative support

<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
SPP	D	2023	\$3,000,000
SPP	R	2025	\$5,000,000
SPP	U	2026	\$6,000,000
SPP	C	2027	\$30,000,000

**B. Project Status**

Project was ranked #4 in the 2022 SHIFT process. Project was added to the 2022-2028 Enacted Highway Plan

**C. System Linkage**

KY 245 provides direct access to I-65 and is a corridor that links the Bluegrass Parkway and I-65

**D. Modal Interrelationships**

**E. Social Demands & Economic Development**

Project will improve access to Nelson County High School, Flaget Memorial Hospital, and Bernheim Forest

**II. PROJECT PURPOSE AND NEED (cont.)**

**F. Transportation Demand**

The City of Bardstown continues to grow and develop. This corridor is the connection to I-65 and is expected to increase in traffic over the next several years.

**G. Capacity**

KY 245 is a 2 lane road which carries 10,658-14,624 vehicles per day. The volume of traffic is expected to increase over the next several years

**H. Safety**

2017 THROUGH 2021 DATA - 138 Total Accidents - 35 Injury Accidents - 2 Fatal Accidents  
17 Angle Collisions - 4 Head On Collisions - 3 Opposing Left Turns - 50 Rear End Collisions - 10 Sideswipe Opposite  
Directions - 5 Sideswipe Same Direction - 49 Single Vehicle Accidents 23 of the accidents  
involved an animal

**I. Roadway Deficiencies**

Due to amount of traffic, passing opportunities are limited Curve  
Class - A and B; Grade - B and C;

**III. PRELIMINARY ENVIRONMENTAL OVERVIEW**

**A. Air Quality**

Project is in:  Attainment area  Nonattainment or Maintenance Area  PM 2.5 County

STIP Pg.#: [Redacted]

TIP Pg.#: [Redacted]

Project will be added to the STIP update when the new 6YP is added

**B. Archeology/Historic Resources**

Known Archeological or Historic Resources are present

There are no known archaeological sites within the project area. There have been some strip surveys, presumably for utility line installation, but the majority of the are is unsurveyed.

**C. Threatened and Endangered Species**

IPAC indicates the potential for 10 listed species to occur within the project area 3 bat species (NLEB, GB, IB), six mussel species (Clubshell, fanshell, orangefoot pimpleback, pink mucket, rabbitsfoot and ring pink) and monarch butterfly (candidate species)

**D. Hazardous Materials**

Potentially Contaminated Sites are present  Potential Bridge or Structure Demolition

There is at least one operation gas station (recent construction) and multiple former gas station sites along the corridor which could be RECs

**E. Permitting**

Check all that may apply:  Waters of the US  MS4 area  Floodplain Impacts  Navigable Waters of the US Impacts  
Are 401/404 Permits likely to be required?  Yes  No Impacts to:  Wetlands  Stream/Lake/Pond  
 ACE LON  ACE NW  ACE IP  DOW IWQC  Special Use 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 [KYTC Noise Analysis and Abatement Policy?](#)  Yes  No

**G. Socioeconomic**

Check all that may apply:  Low Income/Minority Populations  Relocations  Local Land Use Plan available  
There is potential for impacts to Low Income (21%-36%) or Minority (8%-21% in Nelson Co) population impacts. Nelson Co has a comprehensive plan (<https://ncpz.com/ordinances>)

**H. Section 4(f) or 6(f) Resources**

The following are present on the project:  Section 4(f) Resources  Section 6(f) Resources

Bernheim Forest, a large, private forest is adjacent to the project corridor and in some areas lies on both sides of the existing road.

[Anticipated Environmental Document:](#)

CE Level 3 

**IV. PROJECT NEED, PURPOSE & SCOPE**

**A. Need:**

KY 245 is a critical corridor that provides a link between the City of Bardstown and Interstate 65 which is utilized by both commuters who work in and around Louisville and industries in Nelson County moving freight to the I-65 corridor.

**B. Purpose:**

Address safety, capacity, and passing opportunities along KY 245 between Flaget Hospital in Nelson County and Happy Hollow Road in Bullitt County

**C. Scope:**

Project is expected to follow the same alignment for the majority of the corridor with an attempt for minimal impacts to the Bernheim Forest area. Project could potentially widen part (approximately 3 miles) of the Nelson county section to match the existing 5 lane typical which ends just north of Flaget Hospital. The remainder (approximately 6 miles) of the corridor would likely be widened to accomodate a 2 plus 1 design which would allow passing opportunities.

**V. PROJECT ESTIMATE & METHODOLOGY**

<b>Estimate Methodology:</b>	<b>Current Estimate</b>	
Estimate based on 3 miles of widening to 5 lane and 6 miles of widening to a 2+1	<u>Phase</u>	<u>Estimate</u>
	Planning	
	Design	3,000,000
	R/W	5,000,000
	Utilities	6,000,000
	Const	30,000,000
	<b>Total</b>	<b>44,000,000</b>

**VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION**

Company Name -	AT&T
Contact -	Scott Roche, sr8832@att.com
Address -	1340 E. John Rowan Blvd., Bardstown, Ky 40004
Phone No. -	502-348-4528
Company Name -	City of Bardstown, Water & Sewer
Contact -	Jessica Filiatreau, jhfiliatreau@bardstowncalbe.net
Address -	220 N Fifth St, Bardstown, Ky 40004
Phone No. -	502-348-5947
Company Name -	City of Bardstown, Electric
Contact -	Eric Richter
Address -	220 N Fifth St, Bardstown, Ky 40004
Phone No. -	502-348-5947
Company Name -	North Nelson Water District
Contact -	Cole Cissell, northnelsonwaterdistrict@yahoo.com
Address -	555 Louisville Rd, P.O. Box 25, Cox's Creek, 40013
Phone No. -	502-348-8342
Company Name -	Salt Tiver Electric Cooperative Corp.
Contact -	Daniel Carrico, dcarrico@srelectric.com
Address -	2230 Parkway Dr, Bardstown, Ky 40004
Phone No. -	502-373-7730
Company Name -	LG&E
Contact -	Carolin Justice, Caroline.Justice@lge-ku.com
Address -	P.O. Box 32020, 820 West Broadway, Louisville, Ky 40202
Phone No. -	502-627-3708



**VII. TABLES AND EXHIBITS**





**VII. TABLES AND EXHIBITS (cont.)**

None (Completely State funded)  
 CE for Minor Projects  
 CE Level 1  
 CE Level 2  
 CE Level 3  
 EA/FONSI  
 EIS

District	Trimmed District	Full Item #	Trimmed It
4	4	8307	8307
			.20

Hyperlink text  
<https://business.kytc.ky.gov/apps/hub/Pages/Viewer.aspx?di>

5

Not Applicable  
 Bowling Green  
 Cincinnati/Northern Kentucky (OKI)  
 Clarksville/Oak Grove  
 Evansville/Henderson  
 Huntington/Ashland  
 Lexington  
 Louisville/Southern Indiana (KIPDA)  
 Owensboro  
 Radcliff/Elizabethtown

1

A  
 AA  
 AAA

4

Level  
 Rolling  
 Mountainous

3

Local  
 Collector  
 Arterial  
 Interstate

4

None  
Shared Lane  
Bike Lane  
Shoulder  
Designated US Bike Route  
Bike Path

2

Aerial  
Lidar  
Conventional

600 ft  
1200 ft

1