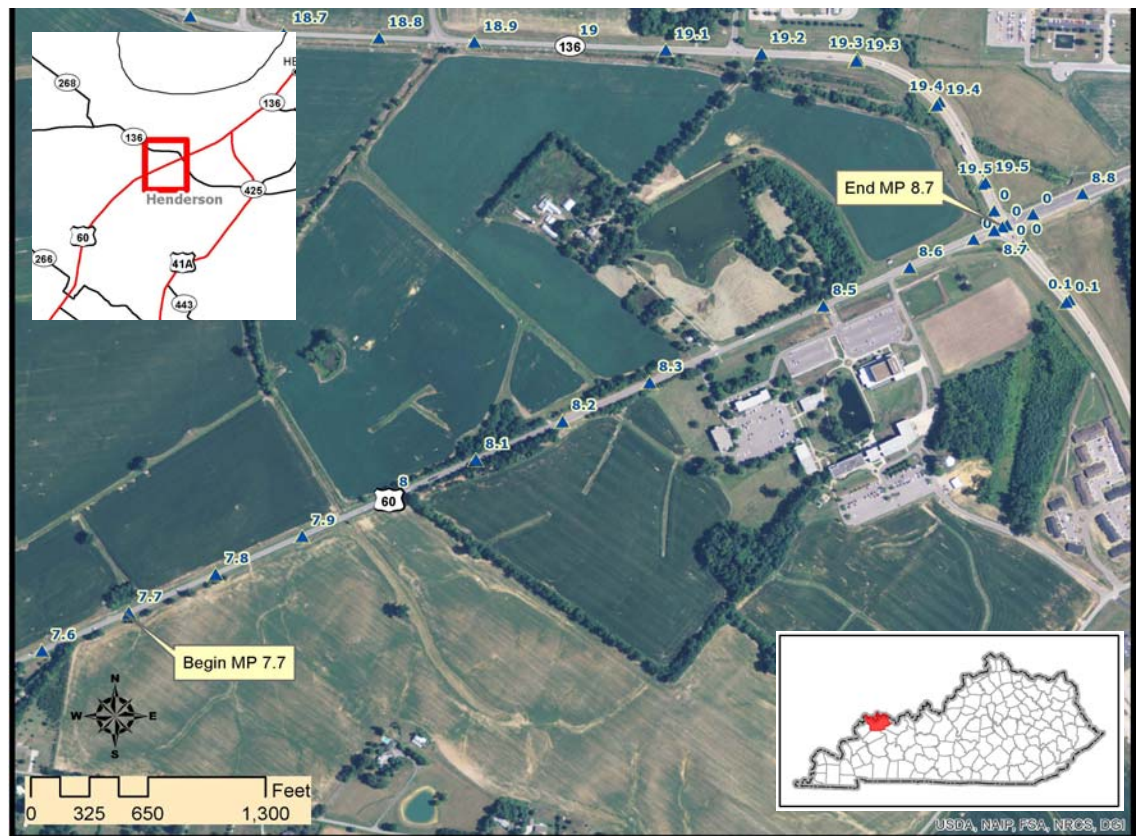


Data Needs Analysis



Scoping Study



Widen and Improve US 60

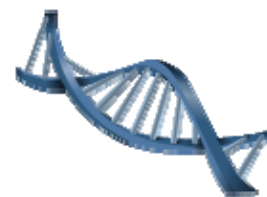
Henderson County

Item No. **2-0079.30**

Prepared by

KYTC District 2 Planning

June 2013



I. PRELIMINARY PROJECT INFORMATION

County:	Henderson	Item No.:	2-0079.30
Route Number(s):	US 60	Road Name:	US 60
Program No.:	6152603D	UPN:	FD52 051 0060 007-009
Federal Project No.:	STPR 0601 119	Type of Work:	Widening

2012 **Highway Plan Project Description:**

Widen and Improve US 60 from West of Henderson Community College (MP 7.7) extending East to KY 425 (MP 8.7). (BOP2012)

Beginning MP:	7.7	Ending MP:	8.7	Project Length:	1
Functional Class.:	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural Arterial ▼	State Class.:	<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary	Route is on:	<input type="checkbox"/> NHS <input checked="" type="checkbox"/> NN <input type="checkbox"/> Ext Wt
MPO Area:	Evansville/Henderson ▼	Truck Class.:	AAA ▼	% Trucks:	12.1%
In TIP:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Terrain:	Level ▼	Access Control:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial Spacing: ▼
ADT (current):	7080 (2012)	Median Type:	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):	Existing Bike Accommodations:	Shared Lane ▼ Ped: <input type="checkbox"/> Sidewalk
Posted Speed:	<input type="checkbox"/> 35 mph <input type="checkbox"/> 45 mph <input checked="" type="checkbox"/> 55 mph <input type="checkbox"/> Other (Specify):	KYTC Guidelines Preliminarily Based on : 50 MPH Proposed Design Speed			

COMMON GEOMETRIC

Roadway Data:	EXISTING	PRACTICES*	
No. of Lanes	2	MIN 2	Existing Rdwy. Plans available?
Lane Width	11'	11' MIN	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Shoulder Width	varies	6'-8' preferable	Year of Plans: 1954
Max. Superelevation**		4-6%	<input checked="" type="checkbox"/> Traffic Forecast Requested
Minimum Radius**		926'@4%, 833'@6%	Date Requested: 5/23/13
Maximum Grade		6%	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.		425'	Date Requested:
Sidewalk Width(urban)	NONE	MIN 4'	Type: ▼
Clear-zone***			
Project Notes/Design Exceptions?:			

*Based on proposed Design Speed, **AASHTO's A Policy on Geometric Design of Highways and Streets, ***AASHTO's Roadside Design Guide

Bridge No.*:	(Bridge #1)	(Bridge #2)	Existing Geotech data available?
Sufficiency Rating			<input type="checkbox"/> Yes <input type="checkbox"/> No
Total Length			
Width, curb to curb			Detour Length(s):
Span Lengths			
Year Built			
Posted Weight Limit			
Structurally Deficient?			
Functionally Obsolete?			
Existing Bridge Type			

*If more than two bridges are located on the project, include additions sheets.

II. PROJECT PURPOSE AND NEED

A. Legislation

These funds are not in the Highway Plan. However, they were recently announced by the Governor at a Press Conference.	Funding	Phase	Year	Amount
	STP	D	2013	\$500,000
		R		\$1,000,000
		U		\$1,000,000
		C		\$5,500,000

B. Project Status

This project (2-0079.30) is a small part of project 2-0079.02 to reconstruct US 60 from MP 5.531 to MP 8.71. A Fonsi was approved 3/22/2012 for the entire project(0079.00). This one mile section was broken out and funds were announced by the Governor. Design funds were authorized in February 2013.

C. System Linkage

The State System or Federal Functional Classification will **not** change as a result of this project. US 60 is a minor arterial that connects Henderson to Morganfield in Union County.

D. Modal Interrelationships

This section of US 60 intersects KY 136 which provides access to the Henderson City/County airport, the Henderson County Riverport and several other industries. This project is not on a coal haul route.

E. Social Demands & Economic Development

This project is needed to provide better access to the Henderson Community College Campus.

F. Transportation Demand

This project includes the US 60 and KY 425 intersection. KY 425 is the link from this area to the Pennyriple Parkway and future Interstate 69.

II. PROJECT PURPOSE AND NEED (cont.)

G. Capacity

Capacity will be increased on the section of US 60 by reconstructing it to 5 lanes with appropriate accommodations for pedestrian and bicycle traffic.

H. Safety

There were 30 collisions reported in this area from 1/1/2010 - 1/1/2013. Most collisions reported were Rear End collisions. Most of the collisions occur in the intersection of US 60 and KY 136 as well as near the college entrances and exits.

I. Roadway Deficiencies

This section of US 60 is a congested 2 lane without adequate shoulders.

Draft Purpose and Need Statement:

Need: This section of US 60 is congested and has high student traffic. There were 30 collisions reported in the area in the last 3 years with most being rear end collisions.

Purpose: Address safety and capacity issues. Provide better access for Henderson Community College.

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.#: VI

EMPO 2010-2013 TIP

B. Archeology/Historic Resources

Known Archeological or Historic Resources are present

Previously registered archeological site present. Avoid disturbance or Deminimus Agreement may be needed.

C. Threatened and Endangered Species

All Indiana Bat Habitat eligible trees must be removed between the dates of Oct 15 - March 31 or mitigation fees apply.

D. Hazardous Materials

Potentially Contaminated Sites are present Potential Bridge or Structure Demolition

No potential sites visible within MP 7.7 - 8.7 at this time.

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

No visible wetlands or potential stream disturbance.

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

Addition of travel lanes would bring road closer to existing properties increasing noise levels.

G. Socioeconomic

Check all that may apply: Low Income/Minority Populations affected Relocations Local Land Use Plan available

No affected residences or concerns.

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

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

None present within MP 7.7 - 8.7.

Anticipated Environmental Document:

EA/FONSI



IV. PROJECT SCOPING

Reconstruct US 60 from MP 7.7 to MP 8.7 to include 5 lanes with appropriate accommodations for bicycle and pedestrian traffic. Identical improvements were recently made to the section of US 60 east of the KY 425 intersection. This project will extend 1 mile west to relieve congestion at Henderson Community College and provide a matching roadway template throughout the corridor.

Total Estimate	
<u>Phase</u>	<u>Estimate</u>
Planning	
Design	\$500,000
R/W	\$1,000,000
Utilities	\$1,000,000
Const	\$5,500,000
Total	\$8,000,000



IV. PROJECT SCOPING (cont.)

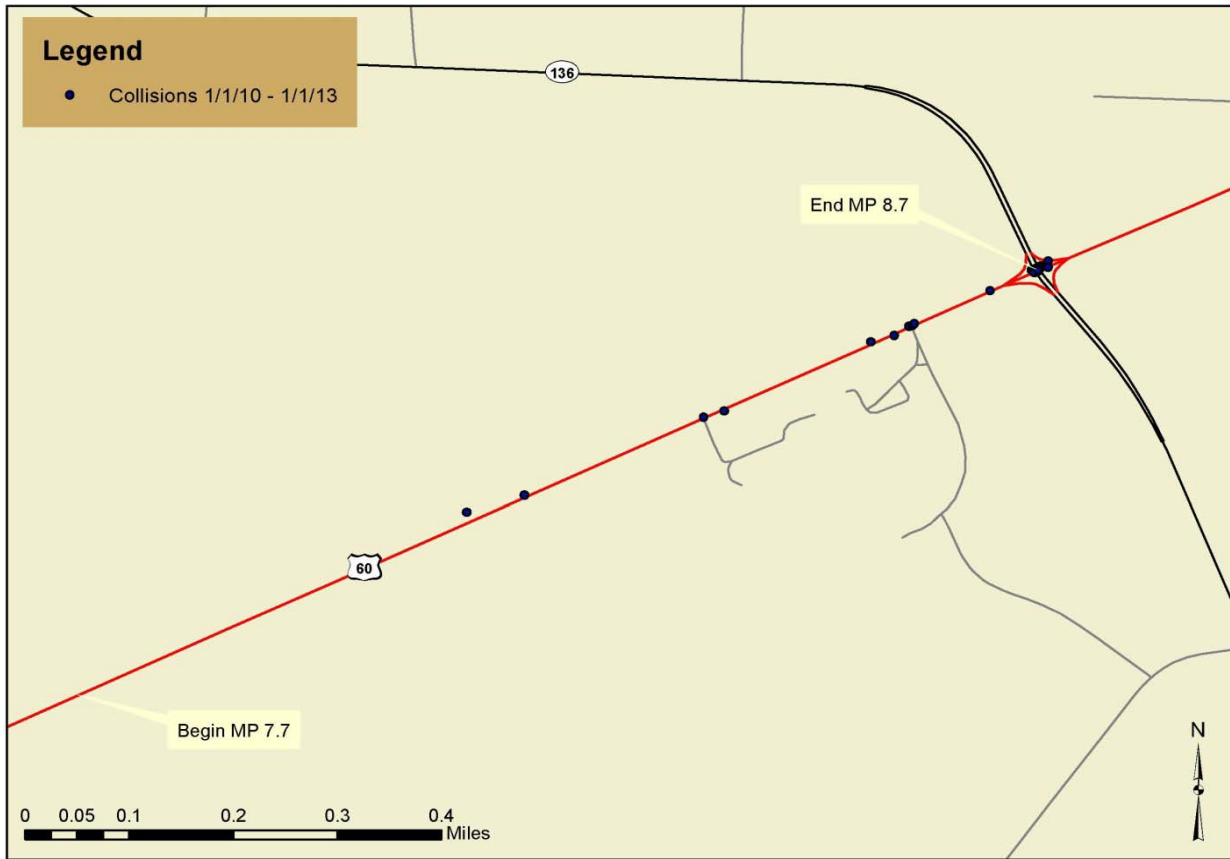


V. Summary

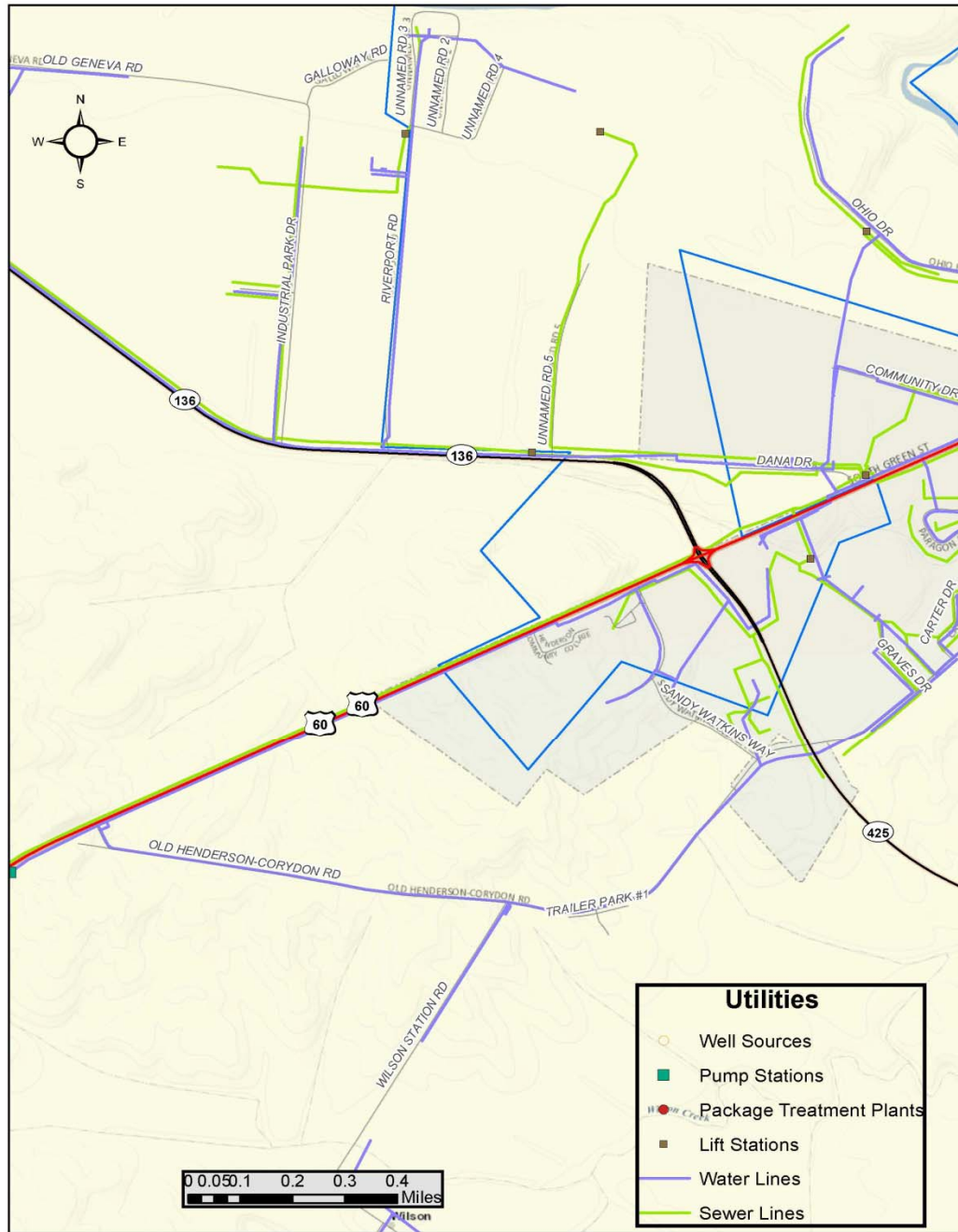
Reconstruct US 60 from MP 7.7 to MP 8.7 to 5 lanes with appropriate accommodations for bicycle and pedestrian traffic. This project is needed to reduce congestion, improve safety and provide better access to Henderson Community College.

VI. Tables and Exhibits

30 Reported Collisions 1/1/10-1/1/13	
Rear End	16
Angle	6
Left Turn	2
Other	6



VI. Tables and Exhibits (cont.)



Note- Gas lines are in the area but are not shown on the map above.