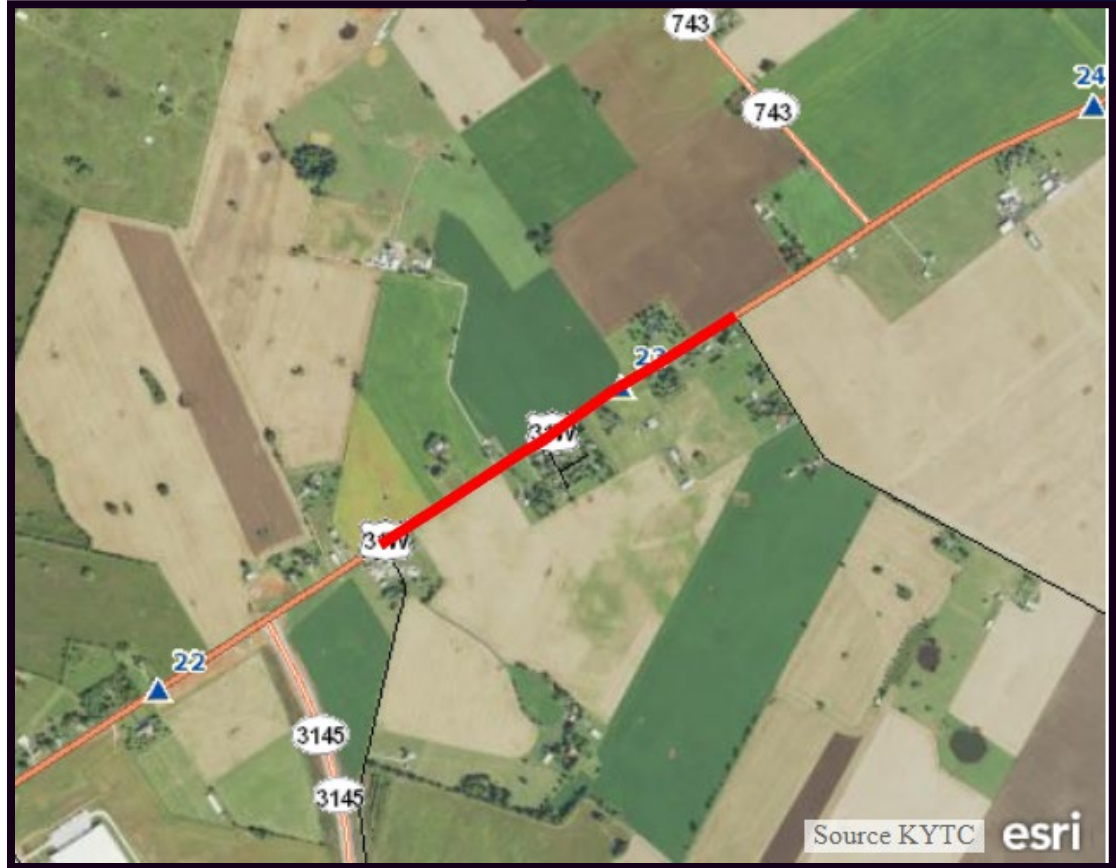


Data

Needs

Analysis



Scoping Study



US 31W, Warren County
Item No. 3-80203.00

Prepared by the KYTC
Division of Planning and
KYTC District 3

June 2022



I. PRELIMINARY PROJECT INFORMATION			
County:	Warren	Item No.:	3-80203.00
Route Number(s)*:	US 31W	Road Name:	Louisville Road
Program No.:	1513701D	UPN:	07 114 31 22-23
Federal Project No.:	STP 5082(026)	Type of Work:	CONGESTION MITIGTN(O)
2022 Highway Plan Project Description:			
Improve mobility and reduce congestion on US-31W from Mizpah Road to Freeport Road (2022CCN)			
Beginning MP:	22.489	Ending MP:	23.239
		Project Length:	0.75
In TIP:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Use PDP/CHAF to Verify Project Data	
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
Functional Class.:	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural Arterial	Truck Class.:	AAA % Trucks: 9.418
MPO Area:	Bowling Green	Terrain:	Level
ADT (current):	5758 2021		
Access Control:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial	Spacing:	
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 : 55 MPH Proposed Design Speed			
COMMON GEOMETRIC			
Roadway Data:	EXISTING	PRACTICES**	
No. of Lanes	2	2	Existing Rdwy. Plans available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Year of Plans: 1932 <input type="checkbox"/> Traffic Forecast Requested Date Requested: <input type="checkbox"/> Mapping/Survey Requested Date Requested: Type:
Lane Width	10'	12'	
Shoulder Width	8'	8'	
Max. Superelevation***	NC	8%	
Minimum Radius***	Tangent	960'	
Maximum Grade	4%	7%	
Minimum Sight Dist.	N/A	495'	
Sidewalk Width(urban)	N/A	N/A	
Clear-zone [†]	Varies	26'-32'	
Project Notes/Design Exceptions?			
Bridge No.†:	(Bridge #1)	(Bridge #2)	
Sufficiency Rating			Existing Geotech Data Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Detour Length(s):
Total Length			
Width, curb to curb			
Span Lengths			
Year Built			
Posted Weight Limit			
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

The following was listed in the 2022 enacted highway plan.

<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
NH	D	2023	\$1,000,000
NH	R	2024	\$2,000,000
NH	U	2024	\$1,000,000
NH	C	2025	\$3,000,000

B. Project Status

This project was legislatively inserted into the 2022 Highway Plan. Even though this project was not sponsored during the 2022 SHIFT cycle, it is still consistent with local goals and other ongoing improvements to US 31W near the Transpark. Design funds are anticipated to be approved for the 2023 fiscal year.

C. System Linkage

US 31W is a Rural Minor Arterial within the project limits. This portion of US 31W is heavily used by the tenants of the Transpark industrial park including large trucks and employees commuting to the factories. The roadway is also used by residents of the area, agriculturally used due to adjacent farmland, and used as a route to access I 65 in northern Warren County.

D. Modal Interrelationships

This route accomodates freight movement for the Transpark as well as agricultural vehicles for the adjacent farmland. The route is also used by commuters from the small communities along US 31W in northern Warren County and bordering counties.

E. Social Demands & Economic Development

The Transpark adjacent to this section of US 31W is a major employer/economic powerhouse to residents of Warren County and surrounding counties. The Transpark is expanding north in such a way that Freeport Road will serve as a new access to the industrial park, primarily the Envision AESC site. Envision AESC coming to the Transpark is the impetus for this project.

II. PROJECT PURPOSE AND NEED (cont.)

F. Transportation Demand

The last actual traffic count for this segment of US 31W is 5758 ADT (2021) with 9.418% Trucks. Since 1994, the counts have been consistently in the low 7000 to low 8000 range. The decrease in traffic in 2021 could be attributed to more traffic utilizing exit 30 to access I 65.

G. Capacity

There are no perceived congestion issues associated with this segment of US 31W.

H. Safety

Eight crashes were found in the Highway Information System View and Extract Interface for the five year period of 2017-2021. The majority of crash types are made up of single vehicle, sideswipes, and rear ends. One crash had a possible minor injury and the rest were property damage only.

I. Roadway Deficiencies

Continued development at the Transpark with a lack of turn lanes will create potential opportunities for collisions at the intersections. A narrow paved shoulder also creates potential for more serious run off the road crashes along this route. Widening the shoulder and lane widths will better accomodate increased truck traffic.

III. PRELIMINARY ENVIRONMENTAL OVERVIEW

A. Air Quality

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

STIP Pg.#: TIP Pg.#:

MPO TIP and KYTC STIP page numbers are in the process of being completed.

B. Archeology/Historic Resources

Known Archeological or Historic Resources are present

Section 106 will apply and SHPO clearances for archeology and historic will be required. The Samuel Murrell House and the Kentucky Horse Shoe Camp are on the National Register of Historic Places.

C. Threatened and Endangered Species

The Gray bat and Indiana bat are endangered species, and the Northern long-eared bat is threatened. Anticipate that seasonal tree clearing restrictions will be required to minimize potential adverse effects to Indiana bats. Shrimp are endangered.

D. Hazardous Materials

Potentially Contaminated Sites are present Potential Bridge or Structure Demolition

There are no known hazardous materials located within the corridor.

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

A KYTC BMP plan and KYR10 will be implemented.

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

A Traffic Noise Impact Analysis must be performed with accordance with the KYTC Noise Policy.

G. Socioeconomic

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

There are residential homes and farmlands among the corridor.

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

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

The Samuel Murrell House and the Kentucky Horse Shoe Camp are on the National Register of Historic Places.

[Anticipated Environmental Document:](#)

CE Level 2



IV. PROJECT NEED, PURPOSE & SCOPE

A. Need:

US 31W between MP 22.489 and MP 23.289 is a two lane facility that serves growing industrial and agricultural developments in northern Warren County.

B. Purpose:

The purpose of this project is to address deficiencies in lane and shoulder width along with consideration for the lack of turning lanes for larger trucks to improve mobility and help reduce congestion.

C. Scope:

The overall scope of this project is minor widening. A breakout section will be completed first to add turning lanes at Freeport Road.

V. PROJECT ESTIMATE & METHODOLOGY

Estimate Methodology:	Current Estimate	
The current estimate is based on minor widening through the project limits.	<u>Phase</u>	<u>Estimate</u>
	Planning	
	Design	\$1,000,000
	R/W	\$2,000,000
	Utilities	\$1,000,000
	Const	\$3,000,000
	Total	7,000,000

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

Company Name -	Warren Rural Electric Cooperative Corporation
Contact -	Jonathan Lindsey, Field Engineer
Address -	951 Fairview Ave. Bowling Green, Kentucky 42102
Phone No. -	270-842-6541
Company Name -	Boardwalk Pipeline Partners Northern Division
Contact -	Amanda Isom, Land Representative
Address -	610 West Second Street Owensboro, Kentucky 42304
Phone No. -	270-926-8686
Company Name -	Atmos Energy Corporation
Contact -	Ryne White, Sr. Engineer
Address -	2850 Russellville Road Bowling Green, Kentucky 42101
Phone No. -	270-901-1705
Company Name -	Bowling Green Municipal Utilities
Contact -	Todd Crosby, Engineer
Address -	801 Center Street Bowling Green, Kentucky 42102
Phone No. -	270-782-1200
Company Name -	Kentucky Communications Network Authority
Contact -	Erick Johnson, Executive Advisor
Address -	500 Mero St, FL 1 Frankfort, KY 40601
Phone No. -	502-782-9549
Company Name -	AT&T
Contact -	Calvin "Buzz" Colburn, Contract Engineer
Address -	1061 Lovers Lane Bowling Green, Kentucky 42103
Phone No. -	270-782-4811

Company Name -	Windstream Communications
Contact -	Rondale Langley, Construction Engineer
Address -	111 South Main Street Elizabethtown, KY 42701
Phone No. -	270-765-1800
Company Name -	Spectrum Cable
Contact -	Justin Sturgeon, Construction Coordinator
Address -	515 Double Springs Rd. Bowling Green, Kentucky 42101
Phone No. -	270-782-0903
Company Name -	Comcast Cable
Contact -	Stephen Gaddie, Engineering
Address -	2920 Ring Road Elizabethtown, Kentucky 42701
Phone No. -	1-270-401-1543
Company Name -	Warren County Water District
Contact -	Ryan Leisey, P.E., Manager of Engineering
Address -	523 Hwy US-31W Byp Bowling Green, Kentucky 42102
Phone No. -	270-842-0052

VII. TABLES AND EXHIBITS

Looking North towards Freeport Road



Looking South near Freeport Road

