

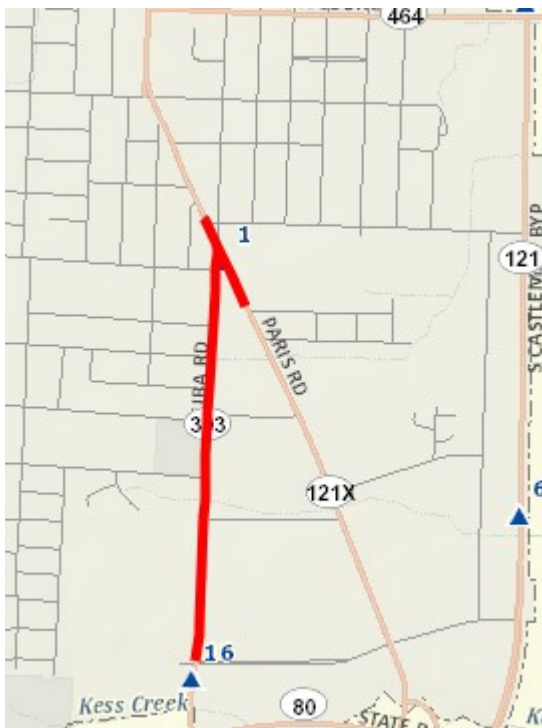
Data

Needs

Analysis



Scoping Study



KY 303 Graves County
From Charles Dr to KY 121
Mayfield
Item No. 1-80103.00

Prepared by the KYTC
Division of Planning and
KYTC District 1

August 2021



I. PRELIMINARY PROJECT INFORMATION

County:	Graves	Item No.:	1-80103.00
Route Number(s):*	KY 303	Road Name:	Cuba Rd
Program No.:		UPN:	FD04 042 0303 016-017
Federal Project No.:		Type of Work:	Minor Widening

(Year) **Highway Plan Project Description:**

Beginning MP:	16.214	Ending MP:	16.853	Project Length:	0.639
In TIP:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Use PDP/CHAF to Verify Project Data		
State Class.:	<input type="checkbox"/> Primary <input checked="" type="checkbox"/> Secondary		Route is on:	<input type="checkbox"/> NHS <input type="checkbox"/> NN <input type="checkbox"/> Ext Wt	
Functional Class.:	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural Arterial		Truck Class.:	AA	% Trucks: 6.30%
MPO Area:	Not Applicable		Terrain:	Rolling	
ADT (current):	7770	2018			
Access Control:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial		Spacing:	3	
Median Type:	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):				
Existing Bike Accommodations:	Shared Lane		Ped:	<input checked="" type="checkbox"/> Sidewalk	
Posted Speed:	<input checked="" 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 :	35 MPH Proposed Design Speed				

COMMON GEOMETRIC

Roadway Data:	EXISTING	PRACTICES**	
No. of Lanes	2	2-4	Existing Rdwy. Plans available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Lane Width	11'	10'-11'	
Shoulder Width	1'	2'-4'	Year of Plans: 1935
Max. Superelevation***	NA	4%	<input type="checkbox"/> Traffic Forecast Requested
Minimum Radius***	NA	510'	Date Requested: NA
Maximum Grade	5%	8%	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.	494'	250'	Date Requested:
Sidewalk Width(urban)	NA	4'-8'	Type: Lidar
Clear-zone [†]	15'	7'-10'	
Project Notes/Design Exceptions?	NA		

Bridge No.:#	(Bridge #1)	(Bridge #2)	
Sufficiency Rating			Existing Geotech Data Available? <input type="checkbox"/> Yes <input type="checkbox"/> No
Total Length			
Width, curb to curb			
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

The project received funding in the 2020 Six Year Plan. This project is a high priority for the city of Mayfield's Transportation Committee.

<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
SPP	D	2022	\$850,000
SPP	R	2023	\$3,500,000
SPP	U	2023	\$3,500,000
SPP	C	2024	\$5,000,000

B. Project Status

Design funds have been requested and the project is being advertised in September 2021.

C. System Linkage

This is an urban arterial linking the southern half of Graves County with the city of Mayfield. The route also intersects with the new KY 80 bypass of Mayfield.

D. Modal Interrelationships

This route does not provide direct access to a multi modal facility such as a riverport, airport or rail facility. It does link with an existing pedestrian facility constructed by the city of Mayfield. The path begins behind the YMCA at the southern end of the projects and extends over Kess Creek to Kess Creek Park.

E. Social Demands & Economic Development

The improved connection will promote safer access to the business and residences along the route as well as promote safer walkability through the city of Mayfield.

II. PROJECT PURPOSE AND NEED (cont.)

F. Transportation Demand

The most recent count from CTS for this segment of KY 303 is from 2018. The ADT was 7770 with 6.3% trucks. This is a decline in traffic from a count of 8205 in 2015.

G. Capacity

There is congestion throughout this roadway corridor. There are residential, recreational and commercial developments along corridor. This route is also a primary link to Mayfield from the southern part of Graves County. Improvement of the 2 lane section to add a center turn lane would improve traffic flow through the corridor. Improvements at the skewed signalized intersection with KY 121 will also reduce congestion.

H. Safety

5 years of crash data showed 112 collisions, with 12 resulting in injuries. These accidents are spread throughout the corridor, with clusters apparent at the intersection with Willow Dr and also KY 121.

I. Roadway Deficiencies

Portions of the road have narrow shoulders as well as a deficient clear zone. There are also numerous access points along the corridor with no center turn lane available. The signalized intersection at the north end of the project also has a deficient skew angle.

III. PRELIMINARY ENVIRONMENTAL OVERVIEW	
A. Air Quality	
Project is in: <input checked="" type="checkbox"/> Attainment area <input type="checkbox"/> Nonattainment or Maintenance Area <input type="checkbox"/> PM 2.5 County	
STIP Pg.#: Not in current book	TIP Pg.#: _____
B. Archeology/Historic Resources	
<input type="checkbox"/> Known Archeological or Historic Resources are present	
No historic resources known at present time. resources unlikely.	Archaeological
C. Threatened and Endangered Species	
Tree cutting likely, so potential for bat habitat to be affected.	
D. Hazardous Materials	
<input checked="" type="checkbox"/> Potentially Contaminated Sites are present <input type="checkbox"/> Potential Bridge or Structure Demolition	
2 service stations are present within corridor, but encroachment upon USTs unlikely.	
E. Permitting	
Check all that may apply: <input type="checkbox"/> Waters of the US <input type="checkbox"/> MS4 area <input type="checkbox"/> Floodplain Impacts <input type="checkbox"/> Navigable Waters of the US Impacts	
Are 401/404 Permits likely to be required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Impacts to: <input type="checkbox"/> Wetlands <input type="checkbox"/> Stream/Lake/Pond	
<input type="checkbox"/> ACE LON <input type="checkbox"/> ACE NW <input type="checkbox"/> ACE IP <input type="checkbox"/> DOW IWQC <input type="checkbox"/> Special Use Waters	
May require Division of Water KPDES notification if ground disturbance reaches 1 acre.	
F. Noise	
Are existing or planned noise sensitive receptors adjacent to the proposed project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is this considered a "Type I Project" according to KYTC Noise Analysis and Abatement Policy? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
G. Socioeconomic	
Check all that may apply: <input checked="" type="checkbox"/> Low Income/Minority Populations <input type="checkbox"/> Relocations <input type="checkbox"/> Local Land Use Plan available	
H. Section 4(f) or 6(f) Resources	
The following are present on the project: <input type="checkbox"/> Section 4(f) Resources <input checked="" type="checkbox"/> Section 6(f) Resources	
Mayfield Kiwanis Park has been awarded funds from LWCF (land and water conservation funds). Consultation with DEA & Dept. of Local Government required at minimum.	
Anticipated Environmental Document:	CE Level 1 ▼

IV. PROJECT NEED, PURPOSE & SCOPE

A. Need:

This segment of KY 303 serves as a link between the southern half of Graves County and the city of Mayfield. It is a daily commuting route for local residents that work in Mayfield. The corridor has numerous residential, commercial and recreation developments along the route. The corridor has congestion and accident issues due to the high ADT and numerous access point conflicts. The corridor also provides access to Kiwanis Park and Kess Creek Park.

B. Purpose:

The purpose of the project is to improve mobility, safety and traffic flow. Another goal of the project is to improve the pedestrian access to Kiwanis Park and Kess Creek Park.

C. Scope:

A 3-lane corridor with sidewalks and possible bike lane should be examined for this entire corridor. Reconstruction and/or improvements to the intersection with KY 121 should also be evaluated.

V. PROJECT ESTIMATE & METHODOLOGY

Estimate Methodology:	Current Estimate	
Comparison to similar projects	<u>Phase</u>	<u>Estimate</u>
	Planning	
	Design	\$850,000.00
	R/W	\$3,500,000.00
	Utilities	\$3,500,000.00
	Const	\$5,000,000.00
	Total	\$12,850,000.00

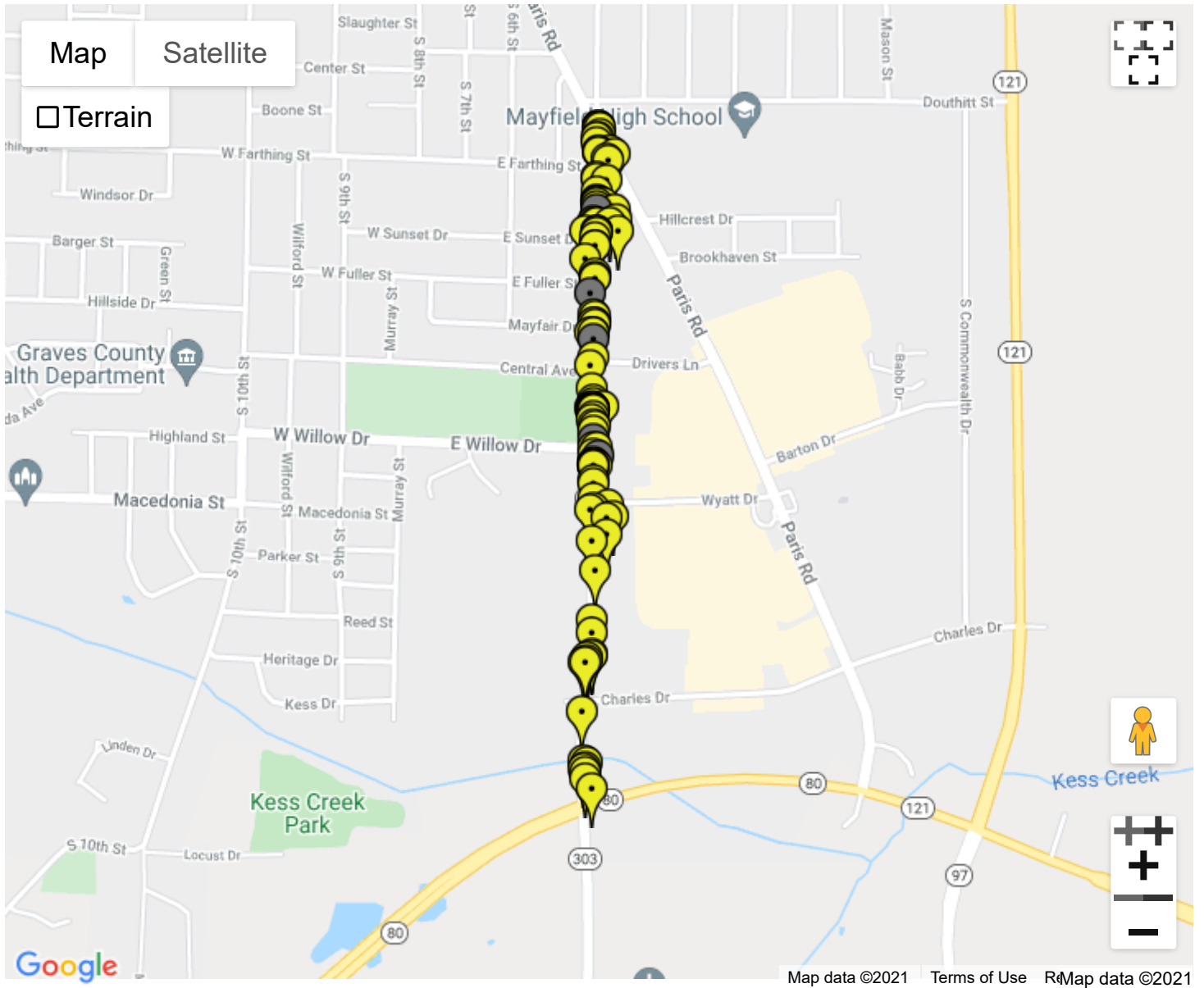
VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

Company Name -	Mayfield Water and Electric
Contact -	Clint Woodard (Electric)
Address -	
Phone No. -	270-519-9353
Company Name -	Mayfield Water and Electric
Contact -	Kevin Leonard (Water/Sewer)
Address -	
Phone No. -	270-970-0310
Company Name -	Atmos Energy
Contact -	Eddie Tucker
Address -	
Phone No. -	270-556-2290
Company Name -	Charter/Spectrum
Contact -	Michael Lyons
Address -	
Phone No. -	812-202-0135
Company Name -	AT&T
Contact -	Alan Shelby
Address -	
Phone No. -	270-4445048
Company Name -	
Contact -	
Address -	
Phone No. -	

VII. TABLES AND EXHIBITS

Map

6/29/2021 12:0 PM



Collision Categories:

Click Pin to Filter

Injured (15)  Property Damage (104)  All 