

Fayette County

KY 2335

Houston Antioch Road /

Ware Road

Item No. 7-415.00

Prepared by KYTC District 7 Planning

November 5, 2015



	I. P	RELIMINAI	RY PROJEC	T INFORMAT	ION		
County:	Fayette		Item No.:		7-415.00		
Route Number(s):*	KY 2335		Road Name	e:	Ware Road	<u> </u>	
Program No.:			UPN:	(Function)	034	2335	000-002
Federal Project No.:	N/A		Type of Wo	ork:		Safety	
2014 Highway Pl	an Project De	scription:	,				
Improve roadway typic			on KY 2335	(Ware Road) f	rom KY 57 (	Briar Hill Ro	oad) to
Northern Entrance to L	exington Blue	Grass Army	y Depot.				
Beginning MP:	0		Ending MP:	2.1	Pro	oject Length:	2.1
In TIP:				Reconcile	Project Info	rmation in	<u>Clearview</u>
State Class.: Primar	y Seconda	ary		Route is on:	NHS	□ NN □	Ext Wt
Functional Class.:	Urban 🔽 Rural	Local	•	Truck Class.:	A ▼	% Trucks:	
MPO Area: Lexington			•	Terrain:	Rolling	_	
ADT (current):	1308 (0-0.691)	[2014]   264	(0.691-2.1) [20	013]	AA (0-0.578)		
Access Control:	☐ None 🗸 I	Permit F	Fully Controlled	Partial	Spacing:		•
Median Type:	✓ Undivided		ded (Type):				
Existing Bike Accommo		Shared Lane		▼ Ped:	Sidewall	<del>-</del> <	
Posted Speed:	35 mph	45 mph	:	55 mph	 ✓ Other (S	pecify):	Not Posted.
<b>KYTC Guidelines Prelim</b>	ninarily Based	l on :	30/40	MPH Proposed	Design Spee	ed .	'
				PRACTICES**			
Roadway Data***:	EXISTING	30 [264]***					
No. of Lanes	<u>2</u>	<u>2</u>	<u>2</u>		Existing	Rdwy. Plans	available?
Lane Width	<u>11' - 7'</u>	<u>9'</u>	<u>11'</u>		Ye		
Shoulder Width	<u>3'</u>	<u>2'</u>	<u>6'</u>			Year of Plans:	
Max. Superelevation***	2.00%	<u>8%</u>	<u>8%</u>			Traffic Fore	ecast Requested
Minimum Radius***	<u>380'</u>	<u>214'</u>	<u>444'</u>		Da	ite Requested:	
Maximum Grade	<u>13%</u>	<u>10%</u>	<u>10%</u>		1	Mapping/Surve	y Requested
Minimum Sight Dist.		<u>200'</u>	<u>305'</u>		Da	te Requested:	
Sidewalk Width(urban)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>			Type:	
Clear-zone <sup>†</sup>		<u>7'</u>	<u>14'</u>				
Project Notes/Design Exce	eptions?						
Bridge No.: <sup>‡</sup>	(Bridge	e #1)	(Bri	dge #2)			
Sufficiency Rating							
Total Length					Existing	Geotech Data	a Available?
Width, curb to curb						Yes No	•
Span Lengths						TES INC	)
Year Built							
Posted Weight Limit					Deto	ur Length(s):	
Structurally Deficient?							
Functionally Obsolete?							
Existing Bridge Type							
*If more than one road is includ **Based on proposed Design Sp ***AASHTO's A Policy on Geom +AASHTO's Roadside Design Gu ‡If more than two bridges are le	peed netric Design of Hig iide	ghways and Stree	ets				

#### II. PROJECT PURPOSE AND NEED

# A. Legislation

The following funding was listed in the 2014 General Assembly's Enacted Highway Plan. Funding available in the current biennium is for Design, Right of Way & Utilities.

Funding	Phase	Year	Amount
SPP	D	2014	\$1,500,000
SPP	R	2016	\$4,000,000
SPP	U	2016	\$1,000,000
SPP	С	2018	\$5,000,000

#### **B. Project Status**

This project was originally #20 on the 2011 District Transportation Plan (DTP), along with projects #18 & #19 in the same region for repair of the roadways supporting the Lexington Blue Grass Army Depot in advance of a major facility expansion by Lockheed Martin. This project was picked up in the 2012 Highway Plan and the other 2 projects were combined into one project (#23) in the 2013 DTP and also included in the 2015 DTP (#92). The Lockheed Martin facility expansion has not happened and is unlikely to happen in the near future. Regardless, there is still substantial truck traffic in this area and this project will be an enhancement for all users. Currently, all phases are estimated and have good funding sources. Design is scheduled to begin in 2016.

#### C. System Linkage

KY 2335 is federally Functionally Classified as Local on the Kentucky Rural Secondary System. It provides access to the northern entrance to the Lexington Blue Grass Army Depot and services several defense contractors, including Lockheed Martin. It is near the Bourbon County community of Clintonville. Bluegrass Station has been historically a federal facility housing computer facilities for the US Government, but is now utilized by several defense contractors.

#### D. Modal Interrelationships

As a local rural roadway, there is low intermodal interaction, with no LexTran bus service, no dedicated bicycle or pedestrian facilities & no known bicycle or pedestrian planning for this area. There is an at-grade rail crossing of a Class III railroad (RJ Corman's RJCC Line) at MP 0.482. Also, Bourbon County Schools traverse this area as part of their school bus routes.

#### E. Social Demands & Economic Development

There has not been any residential growth along this corridor, but its proximity to the nearby interstate & Blue Grass Station Army Depot increases the possibility of commercial growth. More job opportunities would be available if any of the defense contractors expanded their operations at Lexington Blue Grass Army Depot, as Lockheed Martin once considered, which led to the conception of this current project.

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

# F. Transportation Demand

Recent traffic counts show an AADT of 1308 (2014) until MP 0.691, where it drops to an AADT of 264 (2013) until the Fayette/Bourbon County Line (MP 2.201). This section of road is approximately 4 miles from Interstate 64 via KY 859 (Haley Road) and KY 57 (Briar Hill Road). As a state secondary route, Briar Hill Road has a 9+ truck percentage and an AADT of 844. The last 20 years of AADT data shows that the low volume (AADT<400) portion of KY 2335 (MP 0.691-2.201) has remained steady with only low volume counts. The other portion of KY 2335 (MP 0 -0.691) had steady growth from 1994 to 2011, peaking at 1800, but has averaged out to 1308. The slow economy, reduction in military spending & higher fuel prices has kept expansion in check in this area. Therefore, traffic volumes are not expected to change drastically in the next few years.

#### G. Capacity

There are no capacity issues along this corridor with V/SF around 0.08.

### H. Safety

The CRF (Critical Rate Factor) ranges from 0.748 near KY 57 & along the first mile of this segment to 1.614 along the second mile of the segment. There were 3 total collisions from October 1, 2012 until September 30, 2015 with none of them being injury or fatality crashes. 2 collisions were single vehicle crashes with animals; the other was a rear end collision. Please refer to Exhibit 2 for crash locations.

#### I. Roadway Deficiencies

This section of roadway has not been upgraded except for 1" bituminous resurfacing in 2008 of the first 0.691 miles of the route. Due to very heavy truck traffic, the roadway surface has suffered extreme wear & tear along many portions of this route (IRI Roughness >200 in many sections of this route; latest maintenance report surface condition listed as POOR for entire route). This section was built with 11' [MP 0-0.691], 7' [MP 0.691-1.654] & 8' [MP 1.654-2.1] lanes with 3' earth/combination shoulders. KYTC's Common Geometric Practices for Rural Locals recommends 11' lanes with 6' shoulders (or, for low volume roads with AADT<400, 9' lanes with 2' shoulders). There are 6 deficient horizontal curves (Class D or worse), but no significant vertical curve (stopping sight distance) or drainage issues along this corridor. The section truck weight class is AA (62,000 lbs. limit) [MP 0-0.578] up to the rear gate of Blue Grass Army Depot, where it transitions to A (44,000 lbs.) [MP 0.578-2.1].

III. PRELIMINARY ENVI	RONMENTAL OVERVIEW
A. Air Quality	
Project is in:	or Maintenance Area PM 2.5 County
STIP Pg.#: N/A	P Pg.#:
Project is not in STIP as it is state funded. Fayette County is i	in attainment for all monitored pollutants.
B. Archeology/Historic Resources  Known Archeological or Historic Resources are present	
If federal funding is used, Historic and Archaeology Checklist	t or Phase I survey will need to be completed in order to rule
out any impacts to historic or archaeological sites. This may available resources. If state funding remains, S106 clearance	be done in house or contracted out, depending on time and es would only be needed in the jurisdictional permitted areas.
C. Threatened and Endangered Species	
American Burying Beetle, Indiana Bat, Gray bat, Northern Lo federally endangered in Fayette Co. Short's Bladderpod is conceptential bat foraging habitat was observed for the bat specineed to be conducted to examine the habitat potential more indiana and NLEB bat summer roost trees may be impacted shading and disturbance regime needed for RBC did not appextirpated. Any impacts to threatened and endangered specific state funding remains, S7 clearance would only be needed	cies in the project area; however a Habitat Assessment will e closely. A Biological Assessment may also be needed. if trees are cut. A HA will be needed for RBC, however, the pear present. American Burying Beetle is considered cies must be mitigated for through coordination with USFWS.
D. Hazardous Materials  Potentially Contaminated Sites are present  Pot	tential Bridge or Structure Demolition
No known or potentially contaiminated sites were noted on	the site visit.
E. Permitting  Check all that may apply:	Impacts to: Wetlands Stream/Lake/Pond  Wilwoc Special Use Waters
Tartier in the design process.	
	Noise Analysis and Abatement Policy? Yes No ire noise analyses if additional lanes of traffic are planned for
G. Socioeconomic  Check all that may apply: Low Income/Minority Populatio  It is unknown at this time if there will be socioeconomic imp needed for federal funding.	ons affected Relocations V Local Land Use Plan available pacts. This will be addressed as the design progresses if a CE is
H. Section 4(f) or 6(f) Resources The following are present on the project:  There are no known 4(f) or 6(f) resources at this time, though there	4(f) Resources Section 6(f) Resources e are possible historic structures in the viewshed.
Anticipated Environmental Document: No	one (Completely State funded)

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## IV. PROJECT SCOPING, NEEDS & PURPOSE

## A. Scoping & Need:

KY 2335 is a Rural Local road bordering a federal facility utilized by Lockheed Martin & similar companies whose business is primarily contract defense purposes. It is necessary to upgrade the narrow two-lane rural secondary road to provide support to the existing truck traffic at the Blue Grass Army Depot in Avon, KY. Currently a typical rural road, it has only 7 to 11 ft lanes, 3 ft shoulders and an inadequate roadway section or pavement depth to sustain current & expected truck traffic servicing the facility. Primary need is to widen and improve both the section and structural pavement to meet the KY Geometric Design Standards for its expected use & enhance safety for all users.

# **B.** Draft Project Purpose:

The purpose of this study is to address geometric deficiencies, improve mobility, safety and connectivity on KY 2335 (Ware Road) from KY 57 (Briar Hill Road) to the northern entrance to Lexington Blue Grass Army Depot. The need for the project is to upgrade the narrow inadequate roadway section and its pavement for its expected use and enhance safety for all users.

Cu Phase Planning	rrent Estimate Estimate
	<u>Estimate</u>
Planning	
Design	[2014] \$1,500,000
R/W	[2016] \$4,000,000
Jtilities	[2016] \$1,000,000
Const	[2018] \$5,000,000
Total	\$11,500,000
Utai	Ş11,300,000
R/ Ut	W ilities onst

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

Company Name - Windstream KY East, Inc.

Contact - Mr. Steve Johnson

Address - 130 W New Circle Rd, Ste 170, Lexington, KY

Phone No. - 859-357-6209

Company Name - Time Warner Cable
Contact - Ralph McDonie

Address - 2544 Palumbo Dr, Lexington, KY

Phone No. - 859-514-2417

Company Name - Winchester Municipal Utilities

Contact -

Address - 150 N Main St, Winchester, KY 40392

Phone No. - 859-744-5434

Company Name - Deltan Natural Gas Company

Contact - Mr. Craig Mitchell

Address - 3617, Lexington, KY 40391

Phone No. - 859-744-6171

Company Name - KY American Water Company

Contact - Mr. Adam Tilley

Address - 2300 Richmond Rd, Lexington, KY 40502

Phone No. - 859-335-3416

Company Name - Judy Water

Contact - Mr. Billy Ray Fawns

Address - 2010 Maysville Rd, PO Box 781, Mt. Sterling KY 40353

Phone No. - 859-498-4809

Company Name - Clark Energy Cooperative

Contact - Mr. Todd Peyton

Address - 2640 Iron Works Rd, PO Box 748, Winchester, KY 40392

Phone No. - 859-901-9236

Company Name - AT&T Kentucky

Contact -

Address - 894 E Main St, Georgetown, KY

Phone No. - 502-867-8240

Company Name - Columbia Gas of KY, Inc.
Contact - Mr. Mark McCullough

Address - 2001 Mercer Rd, Lexington, KY 40512

Phone No. -

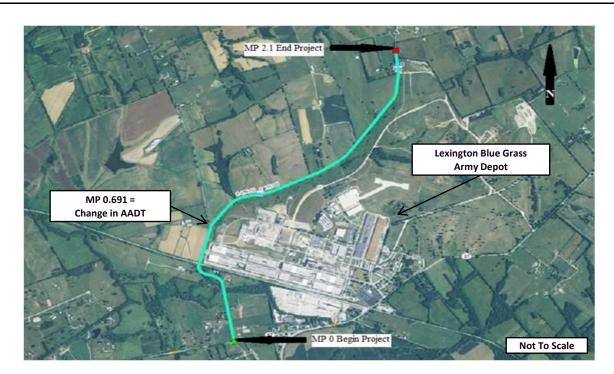
Company Name - LGE/Kentucky Utilities Co.

Contact - Mr. Greg Geiser

Address - 820 W Broadway, PO Box 32020, Louisville, KY 40202-2020

Phone No. -

# **VII. TABLES AND EXHIBITS**



**Exhibit 1: PROJECT LOCATION MAP** 

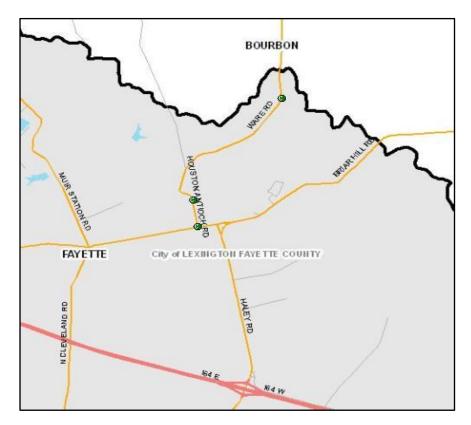


Exhibit 2: CRASH LOCATIONS (Oct 2012 – Sep 2015) MAP

# VII. TABLES AND EXHIBITS (cont.)









**Exhibit 3: ADDITIONAL PROJECT SITE PHOTOS**