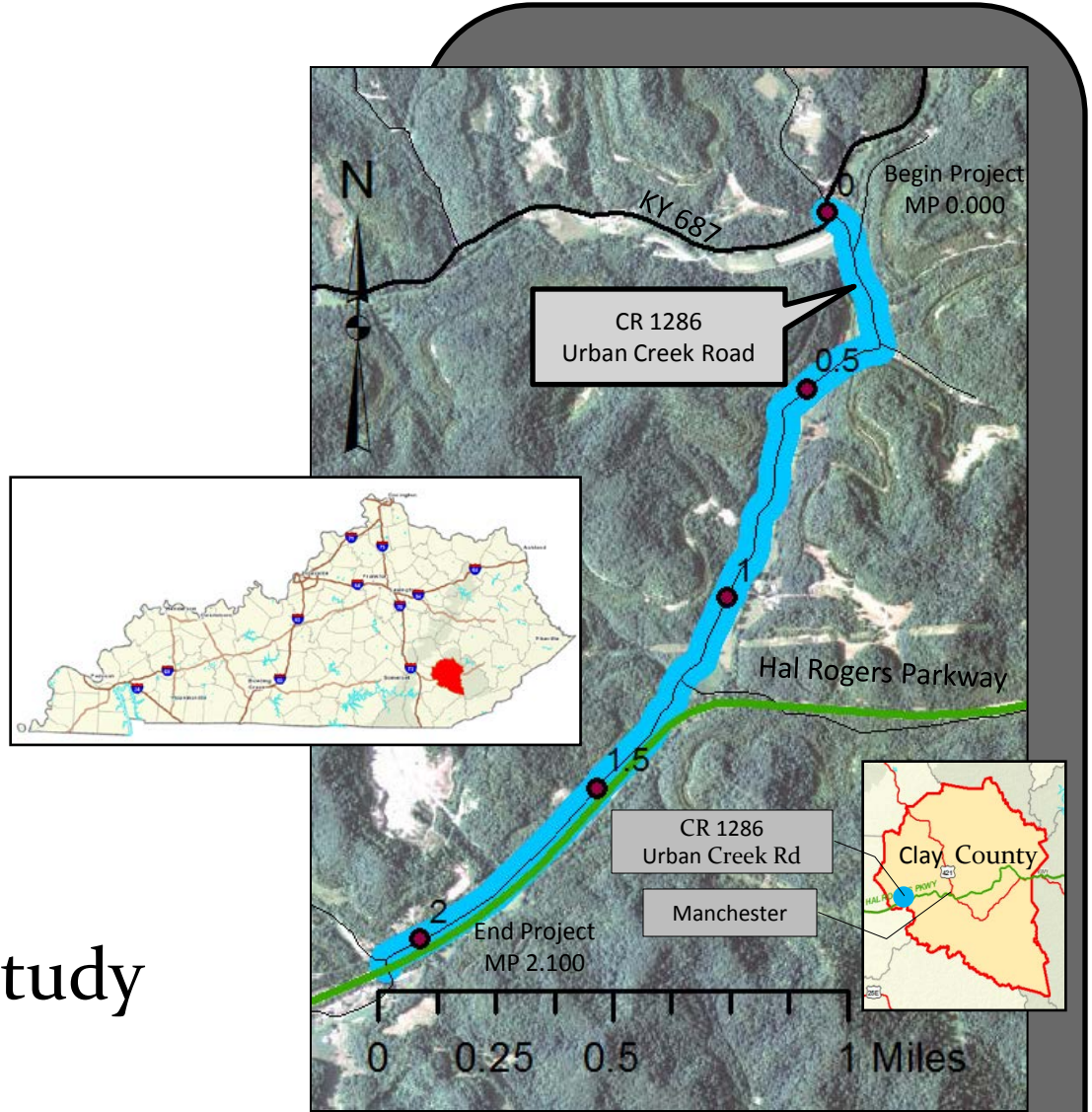


**D**ata

**N**eeds

**A**nalysis

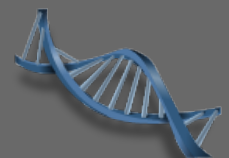
# Scoping Study



CR 1286, Urban Creek Road  
Clay County  
From KY 687 to Hal Rogers Parkway  
Reconstruction,  
Bridge Replacement  
Item No. 11-8864.00

Prepared by the KYTC  
Division of Planning  
KYTC District 11

October 2014



**I. PRELIMINARY PROJECT INFORMATION**

<b>County:</b>	Clay	<b>Item No.:</b>	11-8864.00
<b>Route Number(s):</b>	CR 1286	<b>Road Name:</b>	Urban Creek Road
<b>Program No.:</b>	8955301D	<b>UPN:</b>	FD04 026 1286 000-003
<b>Federal Project No.:</b>	N/A	<b>Type of Work:</b>	Realignment/bridge replacement

2014 **Highway Plan Project Description:**

Improve geometrics along Urban Creek Road (CR 1286) and, including intersections at Hal Rogers Parkway and KY 687. (14CCN)

<b>Beginning MP:</b>	0.000	<b>Ending MP:</b>	2.100	<b>Project Length:</b>	2.100
<b>Functional Class.:</b>	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<b>State Class.:</b>	<input type="checkbox"/> Primary <input type="checkbox"/> Secondary	<b>Route is on:</b>	<input type="checkbox"/> NHS <input type="checkbox"/> NN <input type="checkbox"/> Ext Wt
<b>MPO Area:</b>	Not Applicable	<b>Truck Class.:</b>		<b>% Trucks:</b>	
<b>In TIP:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Terrain:</b>		<b>Access Control:</b>	<input checked="" type="checkbox"/> None <input type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial Spacing:
<b>ADT (current):</b>	253 2014	<b>Median Type:</b>	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):	<b>Existing Bike Accommodations:</b>	<input type="checkbox"/> Sidewalk
<b>Posted Speed:</b>	<input type="checkbox"/> 35 mph <input type="checkbox"/> 45 mph <input type="checkbox"/> 55 mph	<b>KYTC Guidelines Preliminarily Based on :</b>	35	<b>MPH Proposed Design Speed</b>	<input checked="" type="checkbox"/> Other (Specify): not posted

**COMMON GEOMETRIC**

Roadway Data:	EXISTING	PRACTICES*	
No. of Lanes	varies: 1 to 2 lanes	2	<a href="#">Existing Rdwy. Plans available?</a>
Lane Width	varies: 10' to 16'	20'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Width	none	2' earth	Year of Plans:
Max. Superelevation**		8%	<input type="checkbox"/> <a href="#">Traffic Forecast Requested</a>
Minimum Radius**		350'	Date Requested:
Maximum Grade		9%	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.		250'	Date Requested: available
Sidewalk Width(urban)	none	n/a	Type:
Clear-zone***		7' to 10'	

Project Notes/Design Exceptions?: Functional Classification will change from rural local to rural collector.

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

<b>Bridge No. *:</b>	026C00071N (Bridge #2)	<a href="#">Existing Geotech data available?</a>
Sufficiency Rating	28.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total Length	40'	
Width, curb to curb	12.3'	<b>Detour Length(s):</b> 12.5 miles
Span Lengths	40'	
Year Built	1940	
Posted Weight Limit	16 tons	
Structurally Deficient?	Yes	
Functionally Obsolete?	Yes	
Existing Bridge Type	steel stringer, conc. panel deck	

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

**II. PROJECT PURPOSE AND NEED**

**A. Legislation**

This Project was added by the General Assembly into the 2014 Highway Plan with the funding levels shown to the right.

<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
SPP	D	2015	\$800,000
SPP	R	2016	\$650,000
SPP	U	2016	\$450,000
SPP	C	2017	\$6,100,000

**B. Project Status**

\$800,000 in Design funds have been authorized. Funding for Right-of-Way, Utility, and Construction is available but has not yet been authorized

**C. System Linkage**

Urban Creek Road (CR 1286), was recently connected to the Hal Rogers Parkway. It is one of few routes between Manchester and London providing a north-south connection from the Hal Rogers Parkway to the communities of Grey Fork, Rader, Fogertown. The connection to the Hal Rogers Parkway makes the functional classification of Urban Creek Road eligible to be changed from a rural local road to an rural collector.

**D. Modal Interrelationships**

Urban Creek Road (CR 1286) is currently not being used by trucks because of access issues including:

- the connection to the Hal Rogers Parkway has very poor geometry and is difficult to negotiate for any vehicle other than passenger vehicles
- the bridge at MP 0.102 is posted with a 16 ton limit
- the KY 687 intersection has poor geometry and sight distance, and is difficult to negotiate for any vehicle other than passenger vehicles

**E. Social Demands & Economic Development**

The Cumberland Valley Area Development District Comprehensive Economic Development Strategy, 2013, lists the construction of additional access along the Hal Rogers Parkway as one of Clay County’s Regional Priority Projects to promote connectivity in the region.

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

**F. Transportation Demand**

Due to little economic development in the area and few private residences, this route currently has a low demand for transportation. As access and connectivity to the Hal Rogers Parkway are a regional priority, transportation demand may increase in the future.

**G. Capacity**

Urban Creek Road (CR 1286), is currently functioning as a very low-volume rural collector with an ADT of 253 vehicles per day (traffic count: Sept. 2014). There are no capacity issues.

**H. Safety**

A review of the Kentucky State Police Collision Database since 2010 shows no crashes along Urban Creek Road (CR 1286).

Since 2010, there were 3 collisions in close proximity to the intersection of Urban Creek Road and the Hal Rogers Parkway. Two of the collisions were with animals, and the third was a rear-end crash.

There were no crashes in close vicinity of the intersection of Urban Creek Road with KY 687.

See Section VII. Tables and Exhibits, Page 7, for Collisions maps.

**I. Roadway Deficiencies**

There are numerous roadway deficiencies:

1. The intersection of Urban Creek Road and the Hal Rogers Parkway has very poor geometry and is difficult to negotiate for any vehicle other than passenger vehicles
2. The bridge over Little Goose Creek has a sufficiency rating of 28.2 and is structurally deficient and functionally obsolete.
3. The intersection of Urban Creek Road with KY 687 has very poor geometry and sight distance which results in very low sight distance both on Urban Creek Road and KY 687, for traffic entering and exiting from Urban Creek Road.
4. Urban Creek Road is predominantly a one lane road with many geometric deficiencies

**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]

Clay County is in attainment for all monitored air pollutants. Air quality during construction will be controlled with good construction practices.

**B. Archeology/Historic Resources**

Known Archeological or Historic Resources are present

A Phase I archeological survey will determine cultural significance and if eligible sites are located in the project footprint. No historical resources have been identified.

**C. Threatened and Endangered Species**

The USGS Quadrangle is Manchester. Current species listed for Clay County are Indianan bat, Northern long eared bat, gray bat, rabbitsfoot, snuffbox, and the Kentucky arrow darter. Future study will address the requirements of USFWS and prevent detriment to the protected species.

**D. Hazardous Materials**

Potentially Contaminated Sites are present  Potential Bridge or Structure Demolition

Fueling stations, or where petroleum products have been used, can be identified for hazardous materials during phase I investigations and determine if phase II will be necessary. Other possible hazardous materials to investigate will be asbestos in structures. There does not appear to be relocations or hazardous soil contamination

**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 IWOC  Special Use Waters

The USGS Quadrangle is Manchester. This section of Little Goose Creek is not listed as a special use water. A water of the United States, Little Goose Creek, with impacts below ordinary high water will require coordination with the officers of the CORP and DOW. Construction activities may need a USACE 404 permit and a DOW 401 permit. Additionally, a surface water KYR 10 permit may be required for construction 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

Bridge replacement, geometric improvements, roadway widening

**G. Socioeconomic**

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

No

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

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

No 4f or 6f anticipated.

Anticipated Environmental Document:

None (Completely State funded)



**IV. PROJECT SCOPING, NEEDS & PURPOSE**

**A. Scoping & Need:**

Urban Creek Road (CR 1286), is currently functionally classified as a rural local road providing access to local homes and farmland in the Urban Creek area. It is predominantly a one lane road with a structurally deficient and functionally obsolete one lane bridge.

Recently, access to the Hal Rogers Parkway was provided to Urban Creek Road which provided through access to KY 687 and increased traffic. This access to Hal Rogers Parkway makes the functional classification of Urban Creek Road eligible to change from a rural local road to a rural collector. The connection to the Hal Rogers Parkway has very poor geometry and is difficult to negotiate for any vehicle other than passenger vehicles.

The intersection of Urban Creek Road with KY 687 has very poor geometry and sight distance which results in very low sight distance both on Urban Creek Road and KY 687, for traffic entering and exiting from Urban Creek Road.

The priorities for this project are:

1. Improve safety and connectivity at the intersection of Urban Creek Road and the Hal Rogers Parkway
2. Address the structural and functional deficiencies of the bridge over Urban Creek
3. Improve safety at the intersection of Urban Creek Road and KY 687
4. Improve safety along the entire length of Urban Creek Road

Improvements to Urban Creek Road and the two intersections will provide better access to the residents along KY 687 as well as the Gray Fork, Rader, and Fogertown Communities.

**B. Draft Project Purpose:**

The purpose of this project is to improve safety and connectivity on Urban Creek Road (CR 1286), from KY 687 to the Hal Rogers Parkway.

**V. PROJECT ESTIMATE & METHODOLOGY**

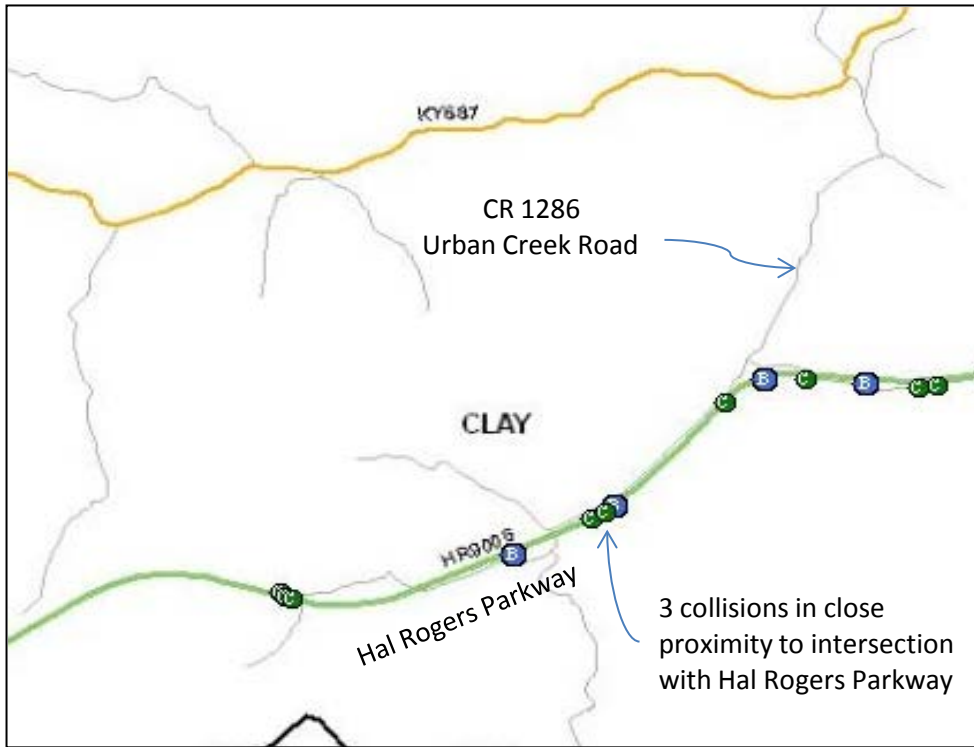
<b>Estimate Methodology:</b>	<b>Current Estimate</b>	
The estimate for this project was generated from other projects of similar size and scope in the same general project area.	<u>Phase</u>	<u>Estimate</u>
	Planning	
	Design	\$800,000
	R/W	\$650,000
	Utilites	\$450,000
	Const	\$6,100,000
	<b>Total</b>	<b>\$8,000,000</b>

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

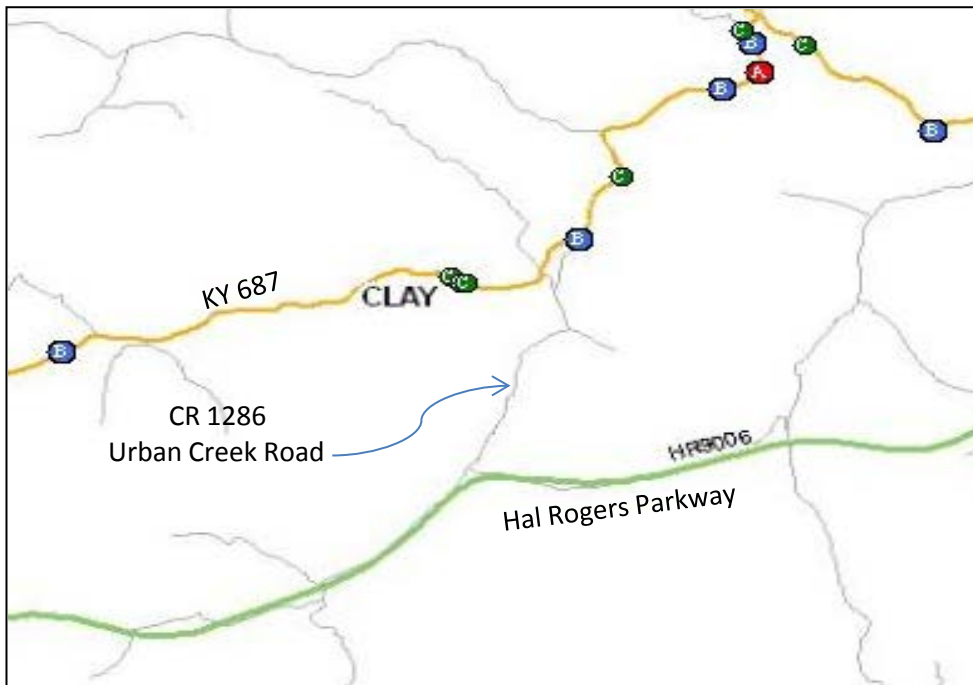
Company Name -	Water: City of Manchester
Contact -	Mike White, Superintendent
Address -	123 Town Square, Manchester, KY 40962
Phone No. -	606-598-3456
Company Name -	Electric: Jackson Energy Cooperative
Contact -	Joe Garland, Staking Engineer
Address -	115 Jackson Energy Lane, McKee, KY 40447
Phone No. -	606-224-7960
Company Name -	Telephone and Internet: Windstream
Contact -	Russell Lambert
Address -	719 North Main Street, London, KY 40741
Phone No. -	606-878-4682
Company Name -	
Contact -	
Address -	
Phone No. -	
Company Name -	
Contact -	
Address -	
Phone No. -	
Company Name -	
Contact -	
Address -	
Phone No. -	



**VII. TABLES AND EXHIBITS**



**Collisions (2010-2014) on the Hal Rogers Parkway**



**Collisions (2010-2014) on KY 687**



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

**Urban Creek Road (MP 3+/-) connection with  
Hal Rogers Parkway (MP 14+/-)**



**Intersection of Urban Creek Rd (left) and Hal Rogers Parkway (right), looking northeast**



**Intersection of Urban Creek Rd and HRP, looking southwest down Urban Creek Road**

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

**Urban Creek Road (MP 0.102): Bridge No. 026C00071N**



**Bridge No. 026C00071N, east side of bridge**



**Bridge No. 026C00071N, looking south east across bridge**



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

**Urban Creek Road (MP 0 ) intersection with KY 687 (MP 7.6 +/-)**



**Intersection of Urban Creek Rd. and KY 687, standing on Urban Creek Rd. looking west on KY 687**



**Intersection of Urban Creek Rd. and KY 687, standing on Urban Creek Rd. looking northeast on KY 687**