$\mathbf{D}_{\mathsf{ata}}$

 N_{eeds}

Analysis

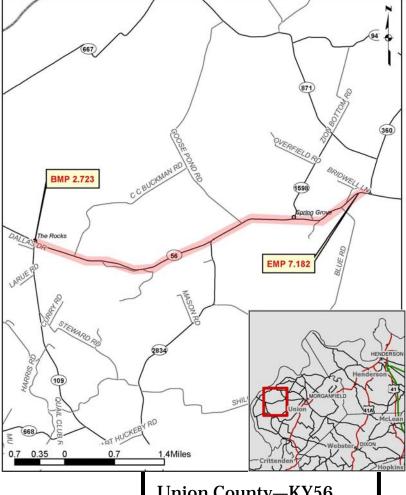


Scoping Study









Union County—KY56

ADDRESS SAFETY, CON-**DITION AND SERVICE CONCERN FROM MP** 2.723 to MP 7.182.

Item No. 2-310.20

Prepared by

KYTC District 2 Planning

June 2014



| | I. PRELIMINAI | RY PROJECT | INFORMAT | ION | |
|----------------------------------|---------------------------------------|---------------------|-----------------------|------------------------------|---------------|
| County: | Union | Item No.: | | 2-310.20 | |
| Route Number(s): | KY 56 | Road Nam | e: | KY 56 | |
| Program No.: | 5844403D | UPN: | FD04 | 113 0056 | 002-008 |
| Federal Project No.: | | Type of W | ork: | Minor Widening | |
| 2014 Highway P | Plan Project Description: | _ | | | - |
| ADDRESS SAFETY, CON | NDITION AND SERVICE CO | ONCERN FRO | M KY 109 TO | WEST OF KY 360 TO ES | TABLISH |
| TRUCK NETWORK CON | NNECTION TO SHAWNEE | | | | |
| Beginning MP: | 2.723 | Ending MP: | 7.182 | Project Length: | 4.459 |
| Functional Class.: | ☐ Urban ✓ Rural | | State Class.: | Primary Se | condary |
| | Arterial T | | Route is on: | □ NHS ✓ NN □ | Ext Wt |
| MPO Area: Not Applical | ble | | Truck Class.: | AA <u>▼</u> | |
| In TIP: Yes | ✓ No | | % Trucks: | 21.3 | |
| ADT (current): | <u>1768</u> (2013) | | Terrain: | Rolling | |
| Access Control: | None ✓ Permit □ I | Fully Controlled | Partial | Spacing: | ▼ |
| Median Type: | ✓ Undivided Divi | ded (Type): | | | |
| Existing Bike Accomm | nodations: Shared Lane | | Ped: | Sidewalk | |
| Posted Speed: | 35 mph 45 mph | √ i | 55 mph | Other (Specify): | |
| KYTC Guidelines Preli | minarily Based on : | 55 | MPH Proposed | · - | |
| | • | COMMON | GEOMETRIC | - | |
| Roadway Data: | EXISTING | | CTICES* | | |
| No. of Lanes | <u>2</u> | | <u>2</u> | Existing Rdwy. Plans | available? |
| Lane Width | <u>10ft</u> | , - | <u>12ft</u> | ☐ Yes ✓ No |) |
| Shoulder Width | <u>2-8ft</u> | | <u>6ft</u> | Year of Plans: | |
| Max. Superelevation** | | | <u>8%</u> | Traffic Foreca | ast Requested |
| Minimum Radius** | | 9 | 96 <u>5</u> | Date Requested: | 6/19/2014 |
| Maximum Grade | | 8% Shldr | /5% Pavmnt | Mapping/Survey | Requested |
| Minimum Sight Dist. | | <u>:</u> | <u> 495</u> | Date Requested: | |
| Sidewalk Width(urban) | | <u>m</u> | <u>in 4ft</u> | Туре: | |
| Clear-zone*** | | | | | |
| Project Notes/Design Ex | ceptions?: | | | | |
| *Based on proposed Design Speed, | , **AASHTO's A Policy on Geometric De | sign of Highways ar | nd Streets, ***AASHTO | D's Roadside Design Guide | |
| Bridge No.*: | (Bridge #1) | (Bri | dge #2) | | |
| Sufficiency Rating | | | | Existing Geotech data | available? |
| Total Length | | | | ∐ Yes ☐ No |) |
| Width, curb to curb | | | | | |
| Span Lengths | | | | Detour Length(s): | |
| Year Built | | | | | |
| Posted Weight Limit | | | | | |
| Structurally Deficient? | | | | *If more than two bridges a | |
| Functionally Obsolete? | | | | the project, include additio | ns sheets. |
| Existing Bridge Type | | | | | |

II. PROJECT PURPOSE AND NEED

A. Legislation

The funds shown are in the 2014 Highway Plan. An additional 1.5 million for R/W and 2 million for Utilities will be needed. Construction funding is higher than the PIF estimate and should be adequate for the project.

| | Funding | Phase | Year | Amount | |
|--|---------|-------|------|--------------|--|
| | SP | D | 2014 | \$1,500,000 | |
| | SP | R | 2016 | \$2,000,000 | |
| | SP | U | 2016 | \$2,000,000 | |
| | SP | С | 2017 | \$14,500,000 | |

B. Project Status

This was a UPL project, 02 113 D0056 87.00. The project was requested by GRADD in 2006. Initial Design funds, Right of Way funds, and Utility funds were authorized for the project on 6/11/2014.

C. System Linkage

KY 56 provides regional access to Illinois via the Shawneetown Bridge which is the only bridge crossing the Ohio River between Paducah and Henderson. This route is a Rural Minor Arterial with a Truck Wt. Classification of AA. The KYTC anticipates that improving this segment to current KYTC standards for construction will allow raising it to an AAA Truck Wt Classification and adding it to the National Truck Network.

D. Modal Interrelationships

This is an important freight route carrying 21 % trucks (ADT) or 377 trucks per day.

E. Social Demands & Economic Development

Improved truck access could benefit economic development opportunities for the area. If this route can be added to the NTN or classified as "AAA", it would allow for more efficient movement of goods in the area. Currently US 60 is the only route in Union County on the NTN.

II. PROJECT PURPOSE AND NEED (cont.)

F. Transportation Demand

KY 56 provides regional access to Illinois via the Shawneetown Bridge. Current geometrics prevent this route from being classified and a "AAA" route and as a National Truck Network route.

G. Capacity

This section of KY 56 has 2 lanes 10ft wide and narrow shoulders. The average daily traffic in 2013 was 1768.

H. Safety

There have been 19 collisions reported in this project area during the 3 year period between 5/1/2011 and 5/1/2014. The collision locations are shown on the map below. The majority of the collisions were due to a single vehicle running off the roadway or an animal collision.



I. Roadway Deficiencies

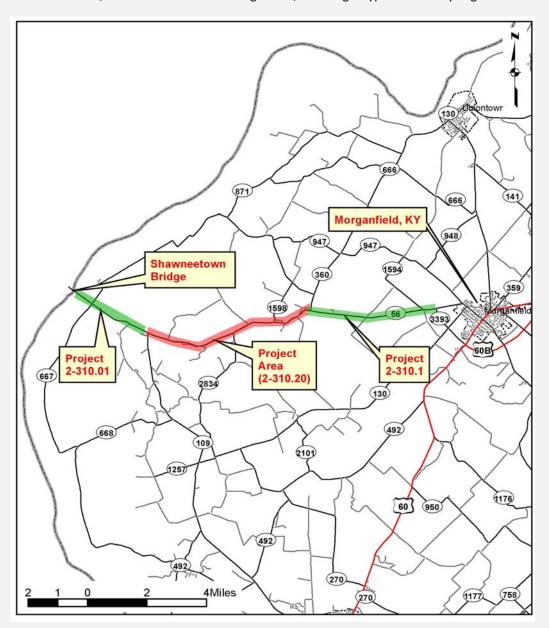
KY 56 is a narrow 2 lane route with 10ft driving lanes and shoulders as narrow as 2ft which does not meet current KYTC's common Geometric Pracitces.

| III. PRELIMINARY ENVIRONMENTAL OVERVIEW | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
| A. Air Quality | | | | | | | |
| Project is in: Attainment area Nonattainment or Maintenance Area PM 2.5 County | | | | | | | |
| STIP Pg.#: TIP Pg.#: | | | | | | | |
| Not included in STIP due to state-funding unless considered a project of regional significance. New draft STIP to be | | | | | | | |
| released July 2014. | | | | | | | |
| B. Archeology/Historic Resources | | | | | | | |
| Known Archeological or Historic Resources are present | | | | | | | |
| None known at this time. | | | | | | | |
| | | | | | | | |
| C. Threatened and Endangered Species | | | | | | | |
| Indiana Bats and Northern long eared Bat mitigation to be paid if tree cutting restriction dates are not followed. | | | | | | | |
| Unsuitable habitat for mussel species and the Least Turn Bird. No effect on all species. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| D. Hazardous Materials | | | | | | | |
| Potentially Contaminated Sites are present Potential Bridge or Structure Demolition | | | | | | | |
| Not known | | | | | | | |
| NOT KITOWIT | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 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 Vo Impacts to: Wetlands Stream/Lake/Pond | | | | | | | |
| ☐ ACE LON ☐ ACE NW ☐ ACE IP ☐ DOW IWQC ☐ Special Use Waters | | | | | | | |
| Aerial photography, ARGIS, USFWS Wetlands mapper utilized for determination. | | | | | | | |
| | | | | | | | |
| F. Noise | | | | | | | |
| Are existing or planned noise sensitive receptors adjacent to the proposed project? \checkmark Yes \bigcirc No | | | | | | | |
| Is this considered a "Type I Project" according to the | | | | | | | |

IV. PROJECT SCOPING, NEEDS & PURPOSE

A. Scoping & Need:

This project is the continuation of 2-310.1 which is from west of KY 360 to the Morganfield Bypass. This project will complete upgrading this narrow two-lane route from Morganfield to the Shawneetown Bridge and connect to projects 2-310.01 and 2-310.10. A project scoping study by PDR Engineering Inc was completed in April 2001 for KY 56 from KY 109 at the Rocks, east to KY 130 WCL of Morganfield, including a bypass around Spring Grove.



B. Draft Project Purpose:

Address safety, roadway deficiencies, condition and service concerns of KY 56 from KY 109 to west of KY 360 just outside of Morganfield (MP 2.723 to 7.182).

| V. PROJECT ESTIMATE & METHODOLOGY | | | | | |
|-----------------------------------|---|--|--|--|--|
| Current Estimate | | | | | |
| <u>Phase</u> | <u>Estimate</u> | | | | |
| Planning | 0 | | | | |
| Design | 1,500,000 | | | | |
| R/W | 3,500,000 | | | | |
| Utilities | 4,000,000 | | | | |
| Const | 12,250,000 | | | | |
| Total | 21,250,000 | | | | |
| | Phase Planning Design R/W Utilities Const | | | | |

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

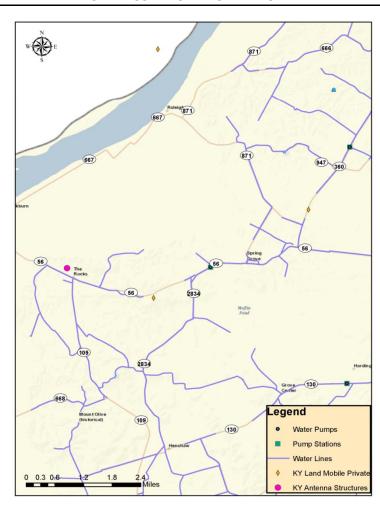
Kenergy 6402 Old Corydon Road Henderson, KY 42420 John Newland 270-826-3991

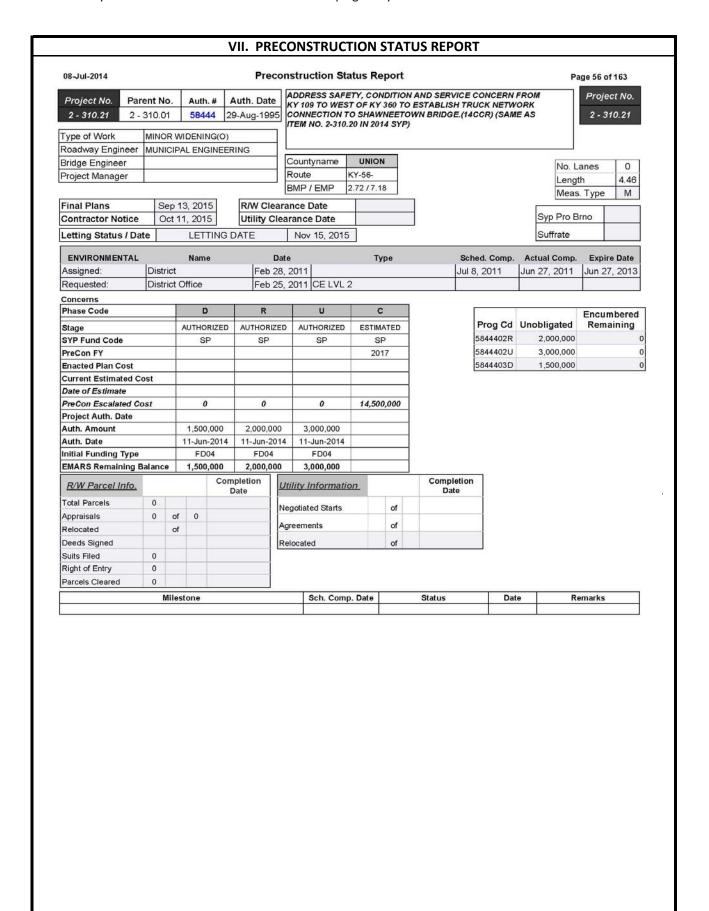
ATT 3021 Old Hartford Road Owensboro, KY 42303 David Ryan 270-685-7615

Time Warner Cable 100 Industrial Drive Owensboro, KY 42301 Brent Rafferty

City Of Morgan Field Gas 220 North Main Street Morganfield, KY 42437 David Presser 270-389-2525

Union County Water 409 North Court Street Morganfield, KY 42437 Gary Sheffer 270 389-3868





Item No. 2-310.20

Union County

VIII. TABLES AND EXHIBITS







