EVALUATION CRITERIA USED IN 2014 PLANNING STUDY



Level 1: Evaluate how well each alternative meets the Purpose & Need.

- Improve river crossing (bridge deficiencies)
- •Improve/maintain a cross-river link between Cairo and Wickliffe
- Address existing safety issues on the bridge and approaches

Level 2: Evaluate how well each alternative addresses the other project goals.

- Satisfy U.S. Coast Guard requirements
- Support local freight routes
- Constructible solution
- Minimize costs
- Minimize disruption to Wickliffe and Cairo during construction
- Minimize impacts to:
 - Tourism
 - Human and Natural Environment
 - Historic Resources
- Support consistent travel time between Wickliffe and Cairo
- Decrease delay due to incidents on the bridge
- Connectivity to bicycle facilities



PURPOSE AND NEED



The purpose of the US 51 Bridge Project is to improve cross river mobility between Wickliffe, Kentucky and Cairo, Illinois, by addressing the safety and reliability issues caused by the narrow lane widths, lack of shoulders and tight curve of the existing bridge and its approaches.







THE NEPA PROCESS

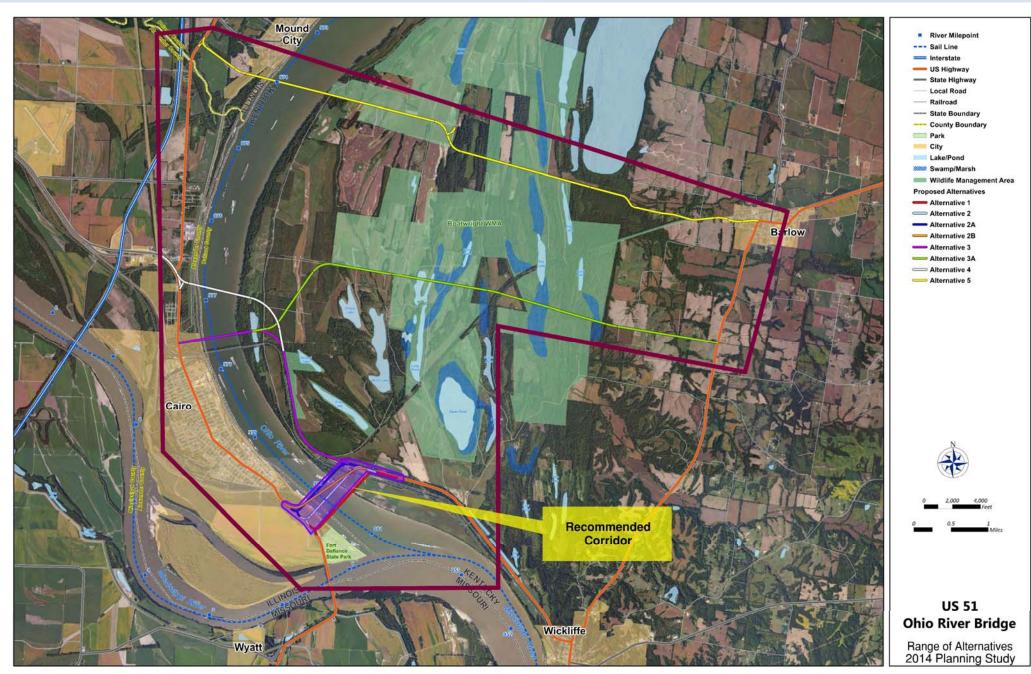


SECTION 106



2014 PLANNING STUDY AREA





TRAFFIC PROJECTIONS



Traffic Analysis and Projections for the US 51 Ohio River Bridge:

HISTORIC TRAFFIC	AADT
2013 Traffic Count (KYTC)	5,350 vpd
2019 Current Year (Estimated)	5,500 vpd

TRAFFIC FORECAST	AADT
2025	5,600 vpd
2045	6,200 vpd

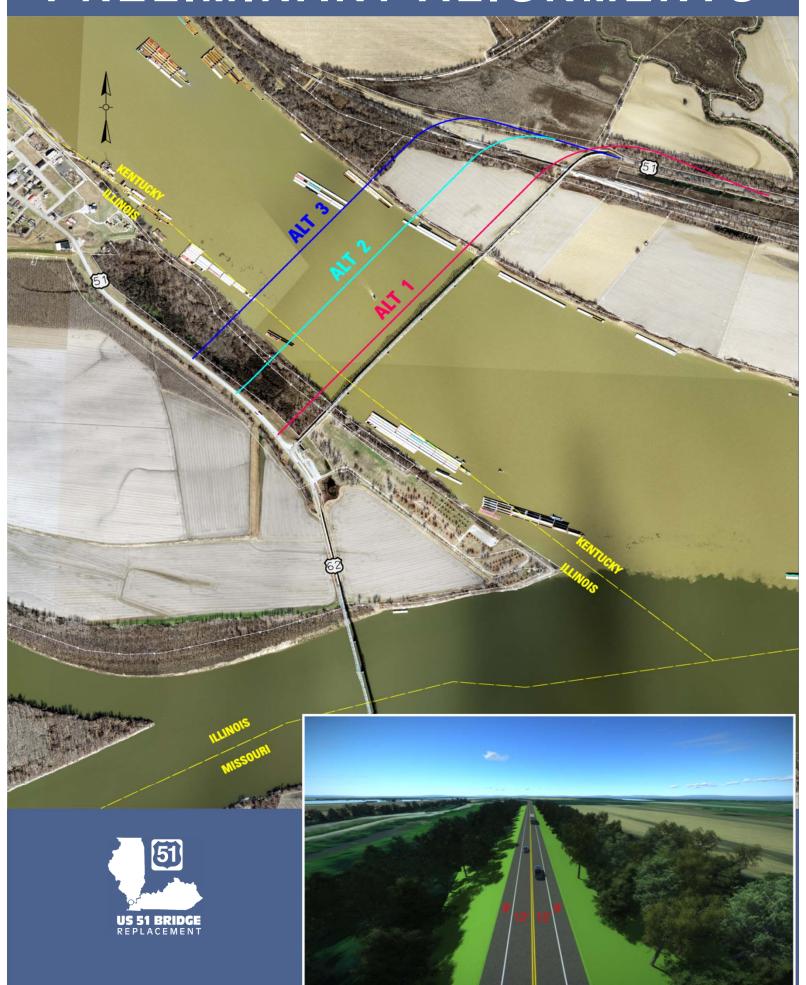
Notes: Future years forecast using 0.5% annual growth rate

AADT = Average annual daily traffic

vpd = Vehicles per day

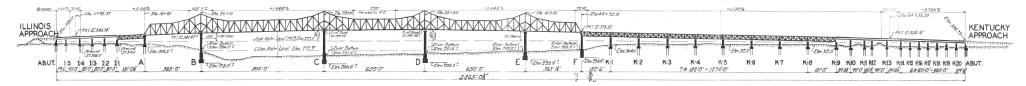
- •Approximately 35% of traffic using bridge is truck traffic
- •Two Lane Bridge is Adequate

PRELIMINARY ALIGNMENTS



EXISTING BRIDGE CONDITIONS





Bridge Facts

- Constructed between 1936 and 1938
- Longest cantilever truss in Kentucky
- 5,865 ft long (2380 ft truss spans)
- Only vehicular bridge crossing of the Ohio River west of Paducah
- Located within the New Madrid seismic zone
- Not designed for earthquake loads

Bridge Geometric Deficiencies

- Narrow 10 ft lanes
- Narrow 1'-3" shoulders
- Inadequate sight distance
- Sharp horizontal curve

Inspection/Rehabilitation Data

- Deck was replaced in 1980
- 1999 Rehabilitation
- Inspected every 2 years

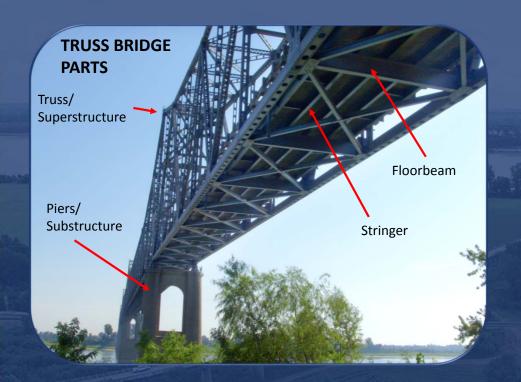
National Bridge Inventory Inspection Item	2012 Condition Rating	2018 Condition Rating
Deck	6	5
Superstructure	6	5
Paint Condition	7	6
Substructure	6	5
9 8 7	6 5	4 3 2 1 0
GOOD	FAIR	POOR

Proposed Design Criteria for New Bridge Alternative

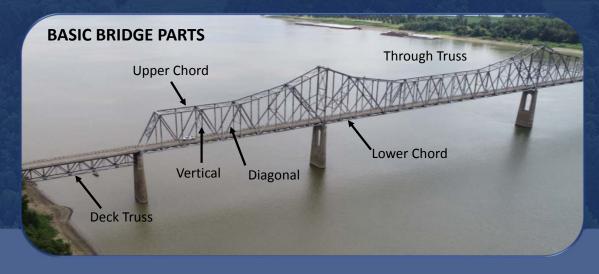
- Designed to modern standards
- 900' or greater main span horizontal length
- 2 lanes with wider shoulders

BRIDGE 101



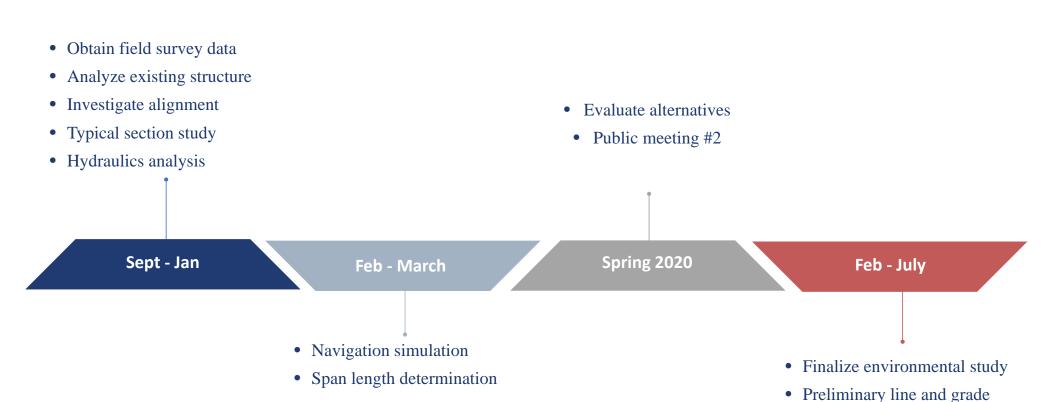






SCHEDULE AND OBJECTIVES





TYPICAL PROJECT DEVELOPMENT PROCESS









For More Information

Website

https://us51bridge.com/

Facebook

https://www.facebook.com/KYTCDistrict1/

How to Get Involved

Attend Future Public Meetings

Help Identify Historic Properties as a Section 106 Consulting Party

Citizens Advisory/Environmental Justice Group