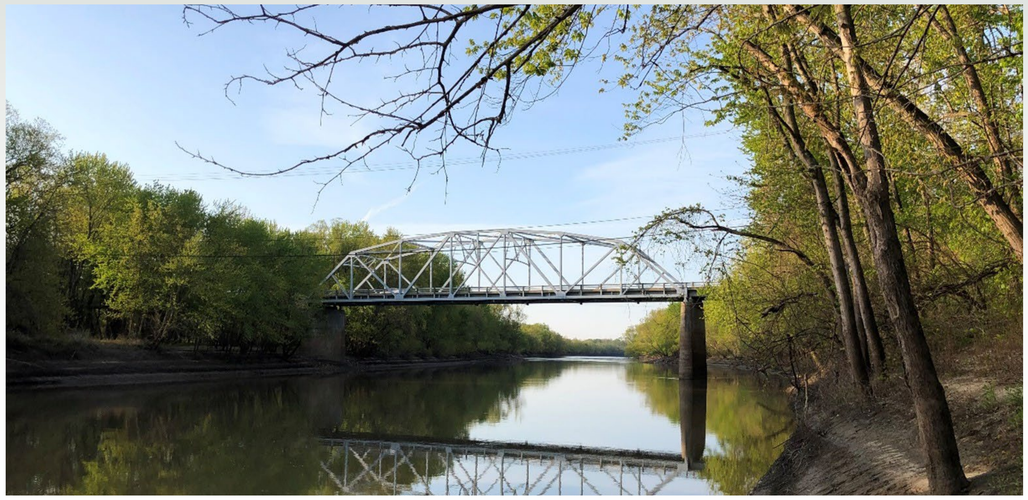
WELCOME!

COMMUNITY ADVISORY GROUP

Illinois Route 4/15 over the Kaskaskia River Bridge Study

Fayetteville, St. Clair County, Illinois

January 17, 2024



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MEETING PURPOSE

- Explain Alternative Development Process
- Discuss Alternatives & Impacts
- Discuss Potential Preferred Alternatives
- Group Exercise – Input on Alternatives

INTRODUCTIONS

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HORNER & SHIFRIN

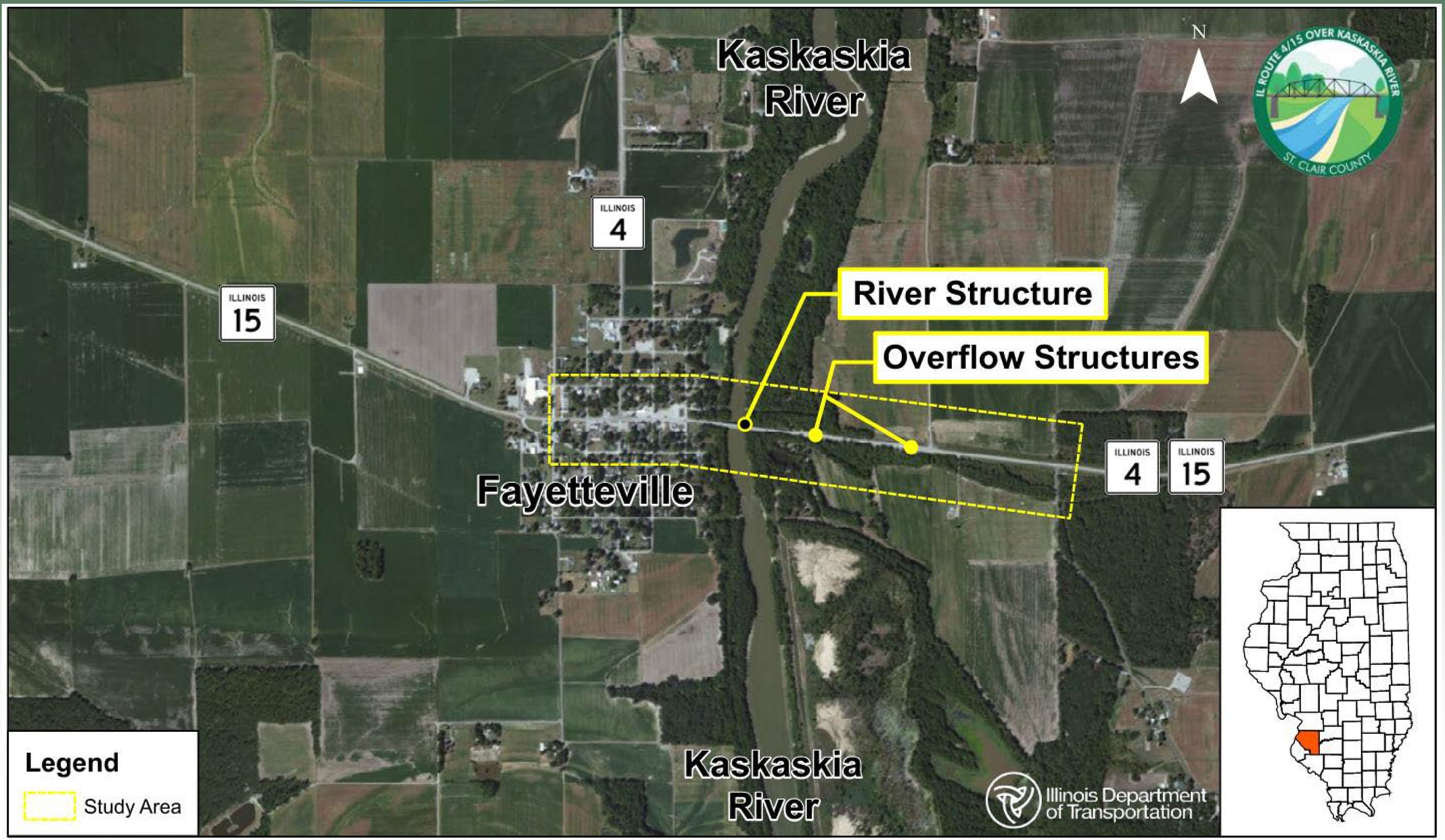
QUIGG ENGINEERING INC
Certified DBE/MBE

CAG MEMBERS

MEETING AGENDA

- What's happened since last CAG meeting?
- Summary of CAG #1/Summary of Community Context Audit
- Present the considered alternatives
- Discuss how IDOT took their concerns into consideration/Addressed the Problem Statement
- Next Steps

STUDY AREA



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STUDY OVERVIEW – PURPOSE & NEED

- The <u>purpose</u> of the project is to replace the existing bridge that carries IL Route 4/15 over the Kaskaskia River.
- Bridge is <u>safe</u> but the <u>NEED</u> for replacement of the existing IL Route 4/15 bridge over the Kaskaskia River is due to:
  - Age of structure (Built in 1946)
  - Continual and rising costs of maintenance.

Various areas of paint failure, section loss of steel beams

Various areas of concrete deck cracking and deterioration

PROJECT DEVELOPMENT, FUNDING & SCHEDULE

IDOT has a three-phase project development process, as shown on the timeline graphic below. The IL Route 4/15 Kaskaskia River Bridge Study is Phase I of the project development process, which develops the preliminary design. During this phase the proposed geometry, environmental concerns, and proposed right-of-way are identified.

All three phases are currently included in the IL FY 2024-2029 Proposed Highway & Multimodal Improvement Program

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PROBLEM STATEMENT

"The existing bridge carrying IL Route 4/15 over the Kaskaskia River is aging and in need of continual repairs. There is a need to provide a cost-effective, long-term improvement that provides reliable access across the Kaskaskia River for farm equipment, Emergency Management Services, school buses, and everyday users of the bridge and reduces the need for continual repairs, while demonstrating respect for our environment."

SUMMARY OF CAG MEETING #1

COMMENT/CONCERN	HOW BEING ADDRESSED
• Closure is a concern to public.	• Impact to the traveling public was a consideration during the screening of alternatives. • Both potential preferred alternatives have the lowest impact to traffic during construction.
• Current bridge is not wide enough. (Two 11-foot wide lanes with 4-foot shoulders) • New bridge needs to accommodate farm equipment and semi-trucks.	Two 12-foot wide lanes plus 8-foot shoulders on each side.

PRELIMINARY ENGINEERING & ENVIRONMENTAL STUDIES STATUS

- Alternatives Analysis
- Bike & Pedestrian Study
- Environmental Surveys
- Drainage Studies
- Bridge Type Analysis

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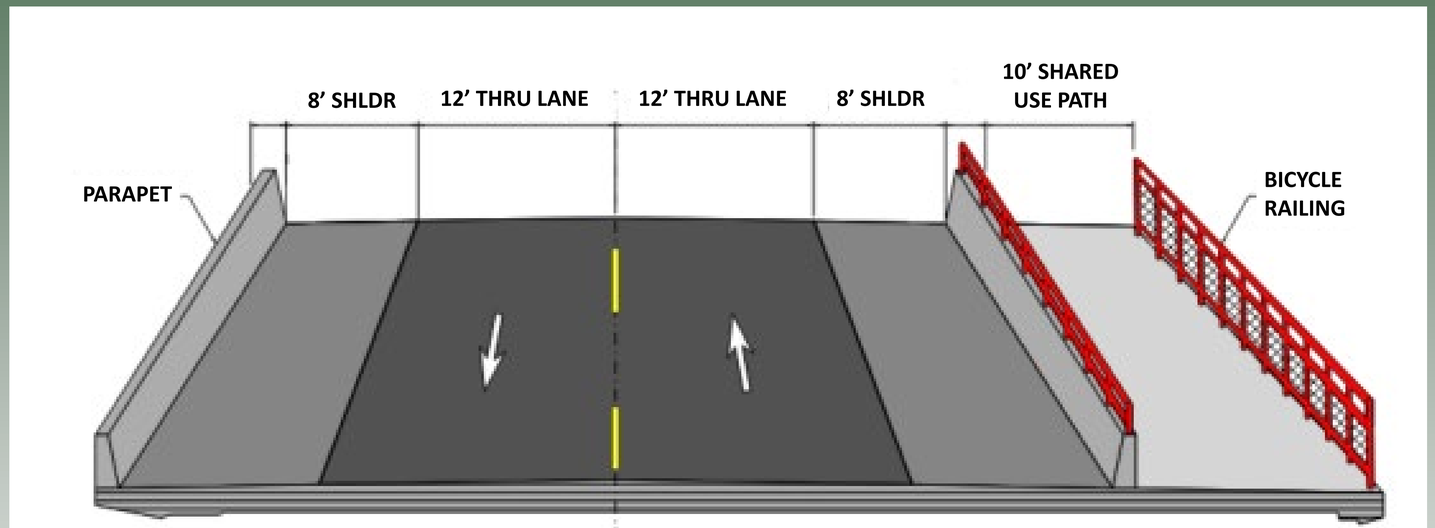
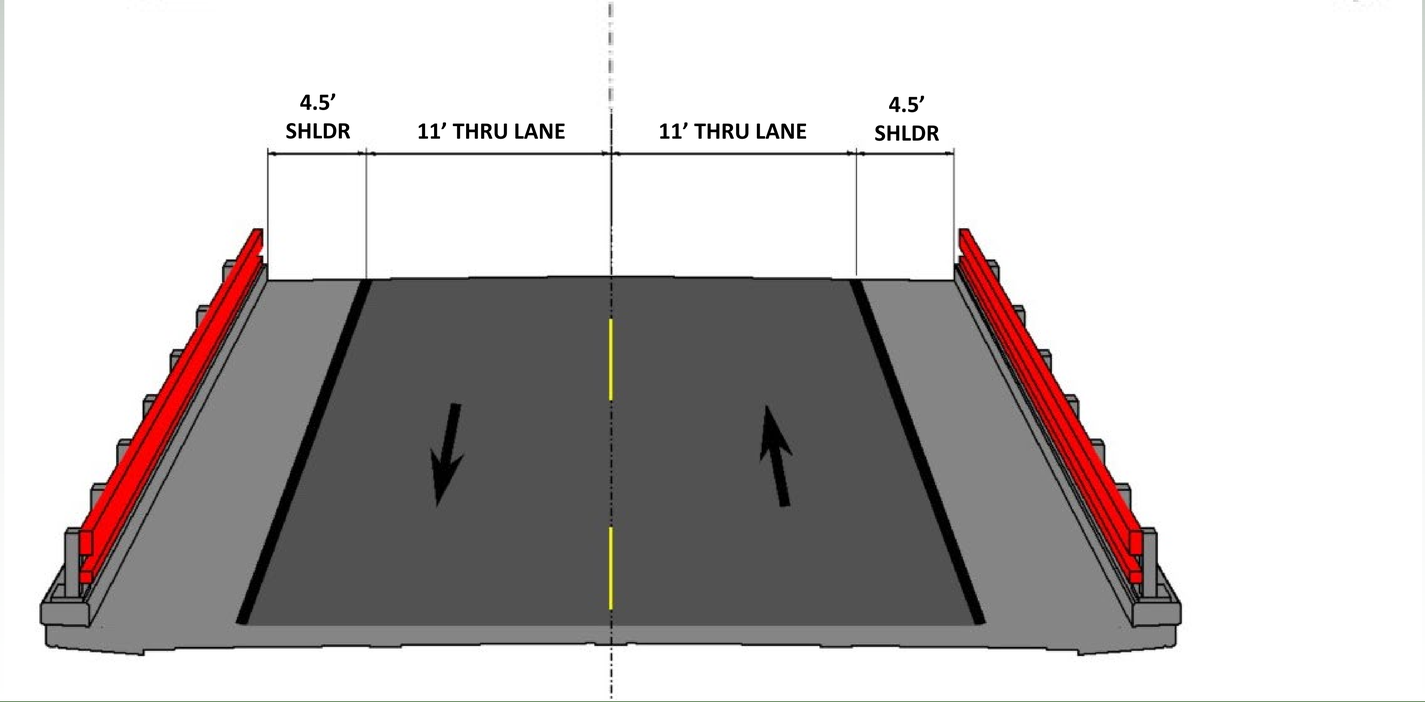
EXISTING & PROPOSED TYPICAL SECTION

PROPOSED BRIDGE TYPICAL SECTION



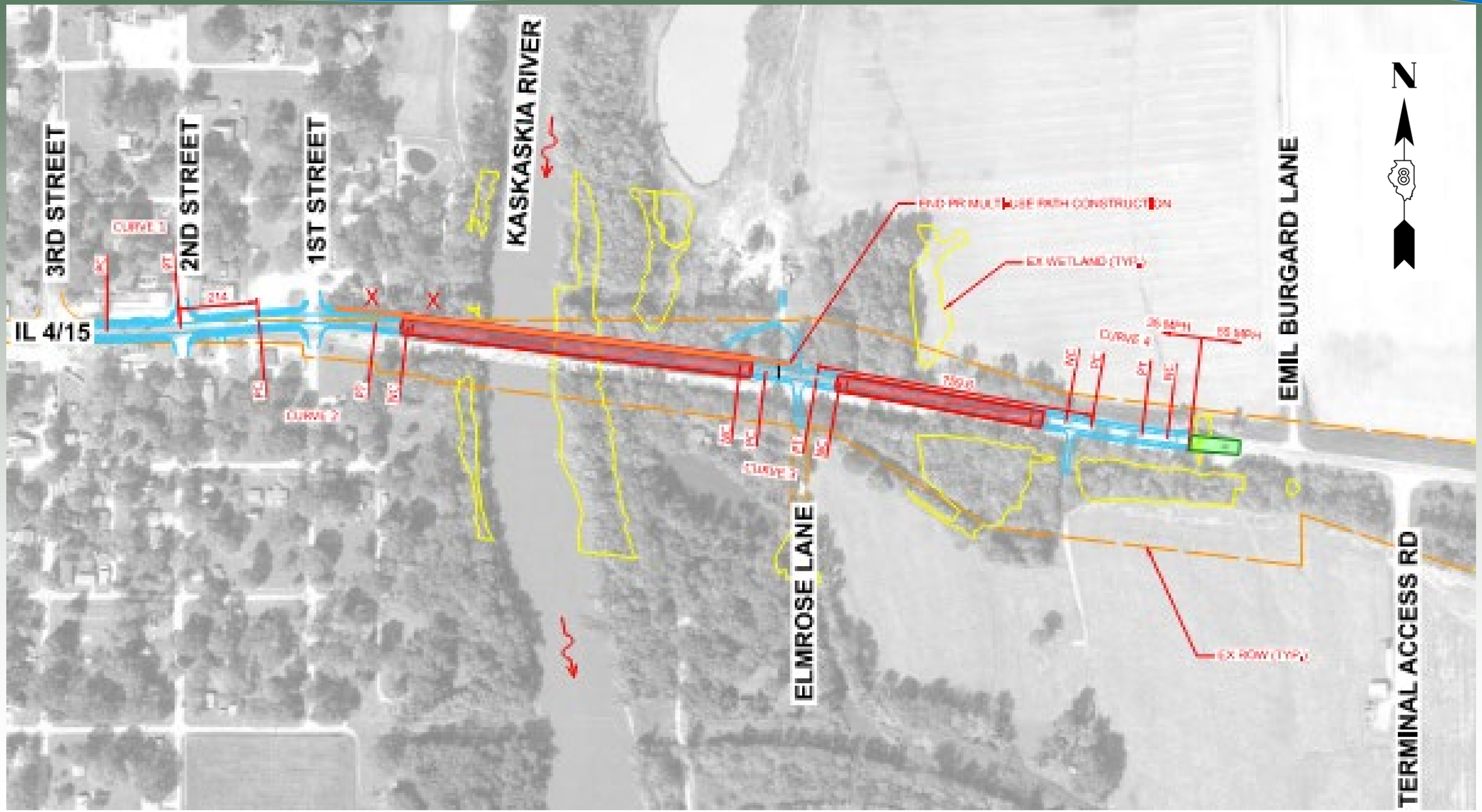
EXISTING BRIDGE TYPICAL SECTION



ALTERNATIVE DEVELOPMENT

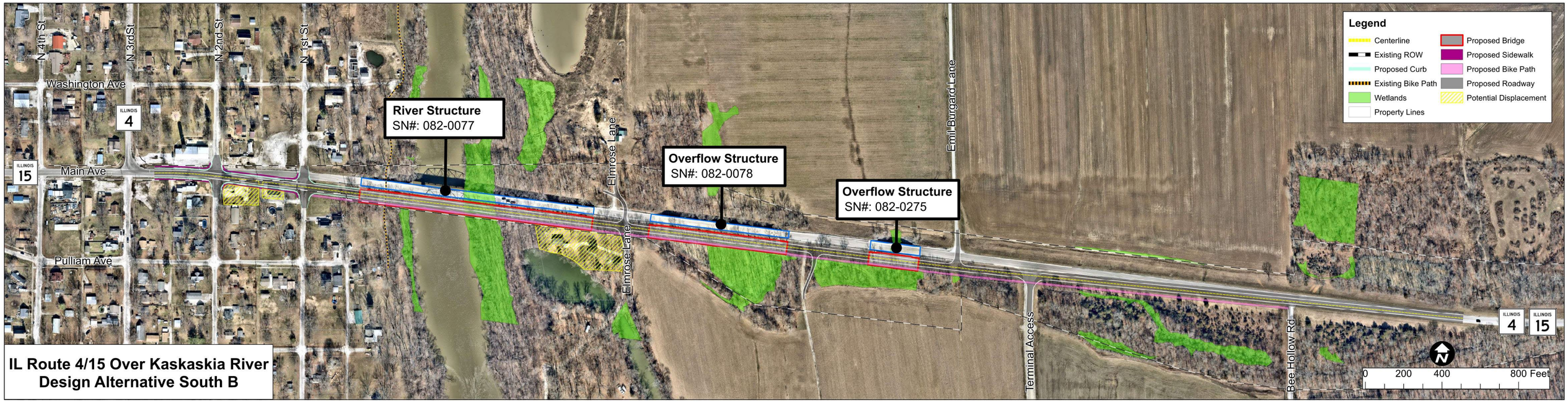
- 14 Alternatives were studied
- 11 Alternatives did not meet problem statement or had engineering flaws
- Examples of engineering flaws include :
  - Extended Closure Time
  - Non-policy Geometry
  - Negative Impacts to River Hydraulics

ALTERNATIVE DEVELOPMENT


KASKASKIA RIVER
3RD STREET
2ND STREET
1ST STREET
IL 4/15
CURVE 1
CURVE 2
CURVE 3
CURVE 4
214
214
214

ALTERNATIVES CONSIDERED
South

Open Discussion



IL Route 4/15 Over Kaskaskia River
Design Alternative South B

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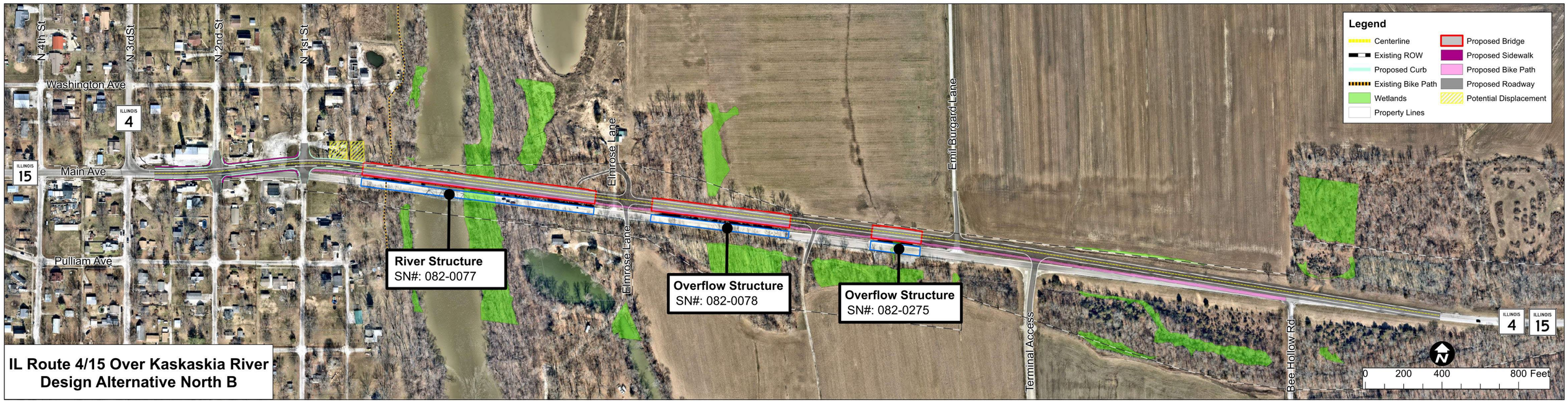
ALTERNATIVES CONSIDERED
North

Open Discussion



IL Route 4/15 Over Kaskaskia River
Design Alternative North B

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ALTERNATIVE COMPARISON

CRITERIA	NORTH	SOUTH
Potential Displacements	2	7
Wetland Impacts	0.5 acres	2.5 acres
New Right-of-Way/Easements	2.2 acres	1.6 acres
Tree Removal	3.5 acres	8.0 acres
Approximate Construction Cost	$50-60 Million	$50-60 Million
Bridge to remain open during construction	Yes	Yes
Width of Proposed Bridge accommodates farm equipment & semi-truck	Yes	Yes

TRAFFIC MAINTENANCE DURING CONSTRUCTION

- Both Potential Preferred Alternatives will allow for bridge construction activities to be completed adjacent to existing traffic with minimal impacts.
- Minimal closures are possible to make the connection on the east and west end of the improvement.

Any
Questions

NEXT STEPS

- Public Informational Meeting #2
  - Early 2024
  - Open House from 4:00-7:00pm
  - Location TBD
- Complete the Project Report and Request Approval for Phase 1
- If you have questions:
  - Contact Matthew Meyer from IDOT
    - Email: Matthew.Meyer@illinois.gov
    - Phone: 618-346-3160
  - Comment through the study website:

ww.idot.illinois.gov/projects/IL-4-Kaskaskia-River-Bridge-Study.html

THANK YOU FOR YOUR ATTENDANCE!

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