Cedar Wapsi Road Bridge Replacement

Over the Cedar River

April 26, 2017
• 651-ft x 24.0-ft 6-span Steel beam bridge built in 1961
• Existing bridge was patched and overlaid in 1996
• Current bridge condition
  – Listed as Structurally Deficient
  – Major contributors are deteriorating abutments and piers and a deteriorating deck.
  – Existing bridge is narrow, 24-ft.
• Preliminary Design and Project Studies
  – Type, Size and Location Study
  – Wetland Delineation
  – Archaeology Studies
  – Threatened and Endangered Species Studies
• Defines cost effective structure types and locations to construct a new bridge that meet our hydraulic design requirements.

• Completed by AECOM in April 2016
  – Two design alternatives were recommended.
  – Hydraulic sizing is completed based on a FEMA “no rise” criteria.
  – 100-yr flood elevation will be at same elevation as the existing bridge.
Project Alternates
Alignment Alternatives

• Alternate #1
  – Proposed 677’-0” long x 40’ wide prestressed concrete beam bridge
  – Would be built on the existing bridge alignment
  – Project will be closed to traffic for duration of the construction
  – Estimated cost: $6.5 million

• Alternate #2
  – Proposed 690’-0” long x 40’ wide prestressed concrete beam bridge
  – Would be built 55 feet south of the existing bridge
  – Existing bridge will be open to traffic for the majority of construction
  – Estimated cost: $7.3 million
Wetland Delineation Study

- A wetland delineation study was completed by Stantec in July 2016
- Report detailed wetland locations that would be potentially impacted by the project
- Black Hawk County will be required to reestablish disturbed wetlands

Estimated Impacts

- Alternate #1
  - Right-of-Way, 2 Acres
  - Wetlands, 1.5 Acres

- Alternate #2
  - Right-of-Way, 5 Acres
  - Wetlands, 3 Acres
Initial field archaeology review was completed in August 2016 by Two River Archaeology.

- One artifact was recovered during the initial field study.
- Artifact was located to the south of the existing bridge in the area proposed for Alternate #2.

Phase II Archaeological Study was completed in February of 2017.

- Results are currently being reviewed by the State Historic Preservation Office to determine if the site is eligible for the National Register of Historic Places.
Several studies have been conducted to survey for the presence or potential habitat of state and federally threatened or endangered species

- Woods Turtles
- Mussels
- Mudpuppies
- Blue Spotted Salamander
- Bullsnake
- Blanding’s Turtle

Black Hawk County is required to coordinate our project planning with the Iowa Department of Natural Resources and the US Fish and Wildlife Service to ensure we are not adversely affecting any threatened or endangered species.
On April 4$^{th}$ the Board of Supervisors voted in favor of Alternate #1

- Proposed 677’-0” long x 40’ wide prestressed concrete beam bridge
- Would be built on the existing bridge alignment
- Estimated cost: $6.5 million

This will result in the bridge being closed for the duration of construction, 2019-2020

Traffic will be detoured on Union Road to Winslow Road to Marquis Road to Maple Street in Janesville to Hwy 218
Detour Route

Project Location

Detour Route

Winslow Road

Union Road

Maple Street

Cedar Wapsi Road

Hwy 218
Agricultural Detour Route

Project Location

Detour Route

Maple Street

Winslow Road

275th Street

Cedar Wapsi Road

Big Woods Road

Union Road

275th Street

Cedar Wapsi Road

Big Woods Road

Maple Street

Winslow Road

Project Location
Project Schedule

• Project Schedule
  – Design, May 2017 – November 2018
    • Floodplain Permitting
    • Environmental Clearances
    • Right-of-Way Acquisition
    • Plan Design & Review
  – Project Letting Winter 2018
  – Construction, 2019-2020
Project Website

- [http://www.co.black-hawk.ia.us/674/Cedar-Wapsi-Road-Bridge-Project](http://www.co.black-hawk.ia.us/674/Cedar-Wapsi-Road-Bridge-Project)
By signing in or creating an account, some fields will auto-populate with your information and your submitted forms will be saved and accessible to you.

**Cedar Wapsi Road Bridge Project Public Comment Form**

Please fill in the information below to submit a public comment for the Cedar Wapsi Road bridge replacement project over the Cedar River.

- **First Name**
- **Last Name**
- **Address**
- **City**
- **State**
- **Zip Code**
- **Phone Number**
- **Email Address**
- **Comments**
Sign up for Notifications
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Questions?