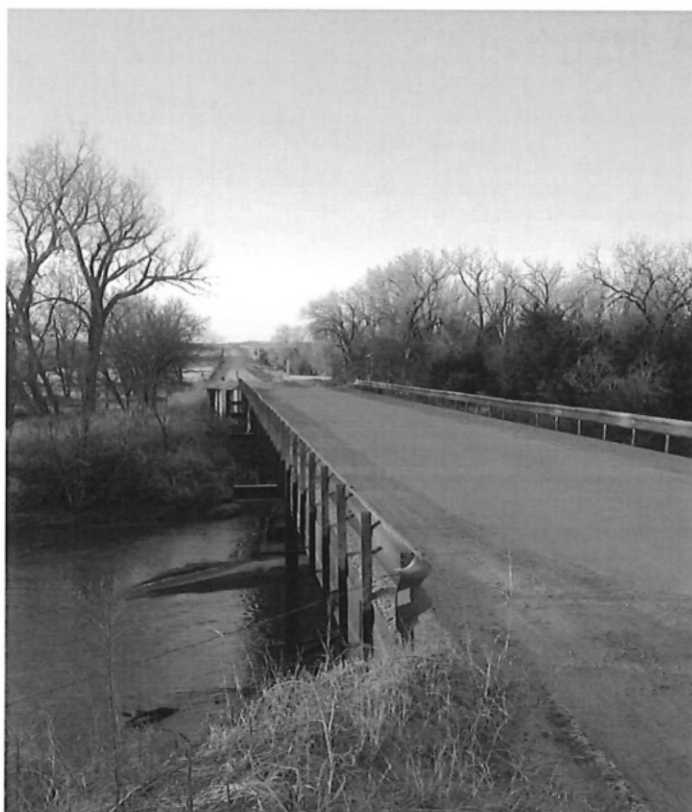


Improving Rural Bridges in Northwest Oklahoma

Circuit Engineering District 8, Oklahoma
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1 BASIC PROJECT INFORMATION

1.1 Project Description

Circuit Engineering District (CED) #8 is requesting \$12.9 million in Bridge Investment Program (BIP) funding to replace seven (7) bridges in northwest Oklahoma (**Figure 1**). All bridges are in fair or poor condition, have deficient horizontal clearances, and are load posted (see representative photos in **Figures 2-5**). The purpose of the Improving Rural Bridges in Northwest Oklahoma Project (the Project) is to eliminate these deficient bridges and restore safe crossings that are up to today's design standards and meet regional traffic requirements for safety and weight. CED #8 intends to construct this Project as a bundle, letting all seven bridges as a single project to a single contractor.

Six of the seven bridges will be replaced with pre-stressed concrete beam bridges of similar design. The seventh bridge (Noble County NBI 09614) will be replaced with recycled steel beams from the Oklahoma Department of Transportation's (ODOT's) removal of the I-40 Crosstown Expressway in Oklahoma City in 2012. Six of the bridges will provide a 26-foot clear roadway

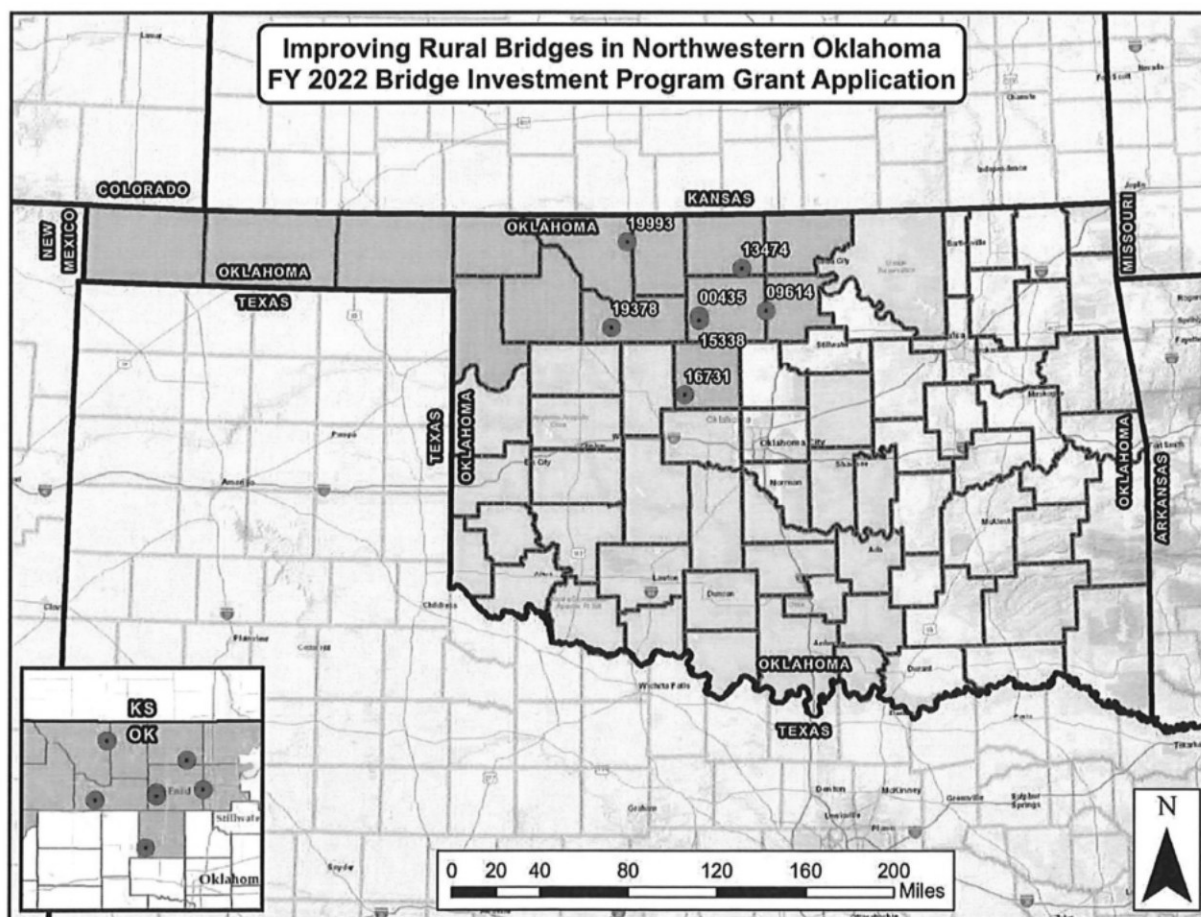


Figure 1: Location of Bridges within Circuit Engineering District #8, Oklahoma



width, and one bridge (Kingfisher County NBI 16731) will be widened to 40 feet to accommodate the higher traffic volumes. New crash-tested guardrail will be installed on all bridges and approaches to safely accommodate two lanes of traffic.



Figure 2: NBI 00435, Garfield County

I-Beam Span Bridge on County
Road E0470 over Spring Creek,
Garfield County

NBI # 00435

Built 1915

Sufficiency Rating – 45
(Functionally Obsolete)



Figure 3: NBI 13474, Grant County

Timber Span Bridge on County
Road N0310 over Unnamed
Creek, Grant County

NBI # 13474

Built 1955

Sufficiency Rating – 27.2
(Structurally Deficient)



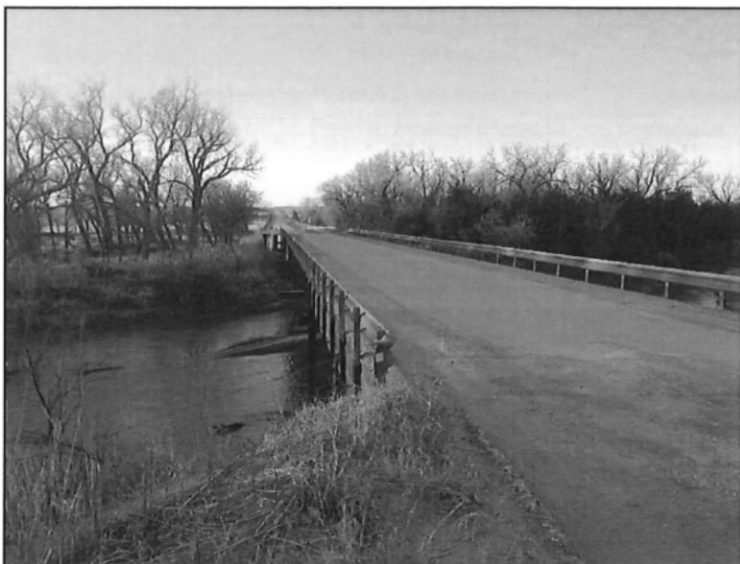


Figure 4: NBI 19993, Woods County

I-Beam Span Bridge on County
Road N2490 over Salt Fork
Arkansas River, Woods County

NBI # 19993

Built 1981

Sufficiency Rating – 50.4
(Structurally Deficient)



Figure 5: NBI 16731, Kingfisher County

I-Beam Span Bridge on County
Road N2740 over Unnamed
Creek, Kingfisher County

NBI # 16731

Built 1966

Sufficiency Rating – 47.8
(Functionally Obsolete)

1.2 Transportation Challenges

CED #8 is responsible for fourteen (14) counties in northwestern Oklahoma (**Figure 1**). This region has some of the lowest population densities of the state, with over half of the counties in the District having fewer than 10 people per square mile. The counties in this District maintain 21,473 road miles and 2,883 bridges. Of the 2,883 bridges in the District, 432, or 15%, are in poor condition. Programming funding for bridge replacement projects would not be possible without outside support, which is provided in large part by ODOT's County Improvements for Roads and Bridges (CIRB) revolving fund. The CIRB fund was established by the Oklahoma state legislature

