

Location

Bridge Creek Bridge 07492 is located at the junction of US 26 (mile post 66.2) and the west end of Main Street in Mitchell, Oregon.

Why this Project is Needed

Keeping roads and bridges in good condition and providing for safe travel are critical parts of the mission for the Oregon Department of Transportation (ODOT).

The existing Bridge Creek Bridge has deck and other structural deficiencies: the bridge deck is worn and delaminated, there are cracks in the superstructure beams, and there are no guardrails on the ends of the bridge. The last inspection of this bridge was done in November 2008 and it currently has a sufficiency rating of 50.5 (out of a

possible score of 100). There are currently no load restrictions on the bridge.



Looking down on the Bridge Creek Bridge at the west end of Main Street in Mitchell, Oregon.

The bridge is 90 feet long, 28 feet wide, and was built in 1953. The existing roadway width on the bridge is 26 feet. Current standards require a minimum width of 30 feet.

The structure has two bridge drains which allow storm water to flow under the deck and into Bridge Creek. Current standards require that storm water be directed to a water quality facility to capture pollutants.

What is Being Proposed

A number of alternatives were analyzed including: repairing the existing bridge; replacing the bridge in the same location; and relocating the bridge. The decision was made to replace the bridge in the same location.

The new bridge will be 36 feet wide and will be built so the support pilings under the bridge are on either side of the active stream channel for Bridge Creek. This allows adequate room for the creek under the bridge and will reduce scouring problems around support pilings.

There will not be sidewalks on the new bridge but the new bridge will have five foot shoulders to accommodate bicycles and pedestrians. Guard rails and bridge rails will be installed and the replacement structure will direct storm water from the bridge to a water quality facility.

Traffic Control during Construction

ODOT, Wheeler County, and the Town of Mitchell are looking at options to maintain access to Main Street in Mitchell during construction. After looking at the many potential options for construction, it was decided to repair the county bridge at the east end of Mitchell and use it as a detour during the replacement of the ODOT bridge.

The county bridge at the east end of Main Street has some structural deficiencies and currently has a load restriction of 14 tons. Repairing the county bridge will eliminate the load restriction and be used as a detour, allowing the Bridge Creek Bridge to be closed during construction.

History of the County Bridge

The county bridge on the east end of Main Street is a good example of a reinforced concrete deck girder bridge designed by bridge engineers under the supervision of Conde McCullough. The bridge has an ornamental rail which is characteristic of McCullough's work from this era. Conde McCullough headed the bridge section of the Oregon Department of Transportation (at that time known as the "Oregon State Highway Commission") from 1919-1935, and is best known for the bridges he designed and built on US 101 along the Oregon Coast.

The county bridge was part of the state highway system until the highway was moved to the north side of Bridge Creek. The plans for the bridge were signed by McCullough in 1929. This bridge is a little more ornate than other bridges built in the same era along this stretch of highway, probably because of its proximity to the Town of Mitchell. The original bridge has not been altered although in need of repair. There is a similar bridge that spans Rock Creek located about 30 miles further east on US 26. The old Crooked River Gorge Bridge on US 97 is another example of a McCullough era bridge.

The repair of this bridge will be accomplished in a way that preserves the historic character of the bridge.

Project Timeline

Design	2009/2010
Contract Bid Let	2011
Construction	2012

ODOT awarded a \$1.1 million construction contract to 2KG in June 2011. Work began in late June 2011 and was completed fall 2012.

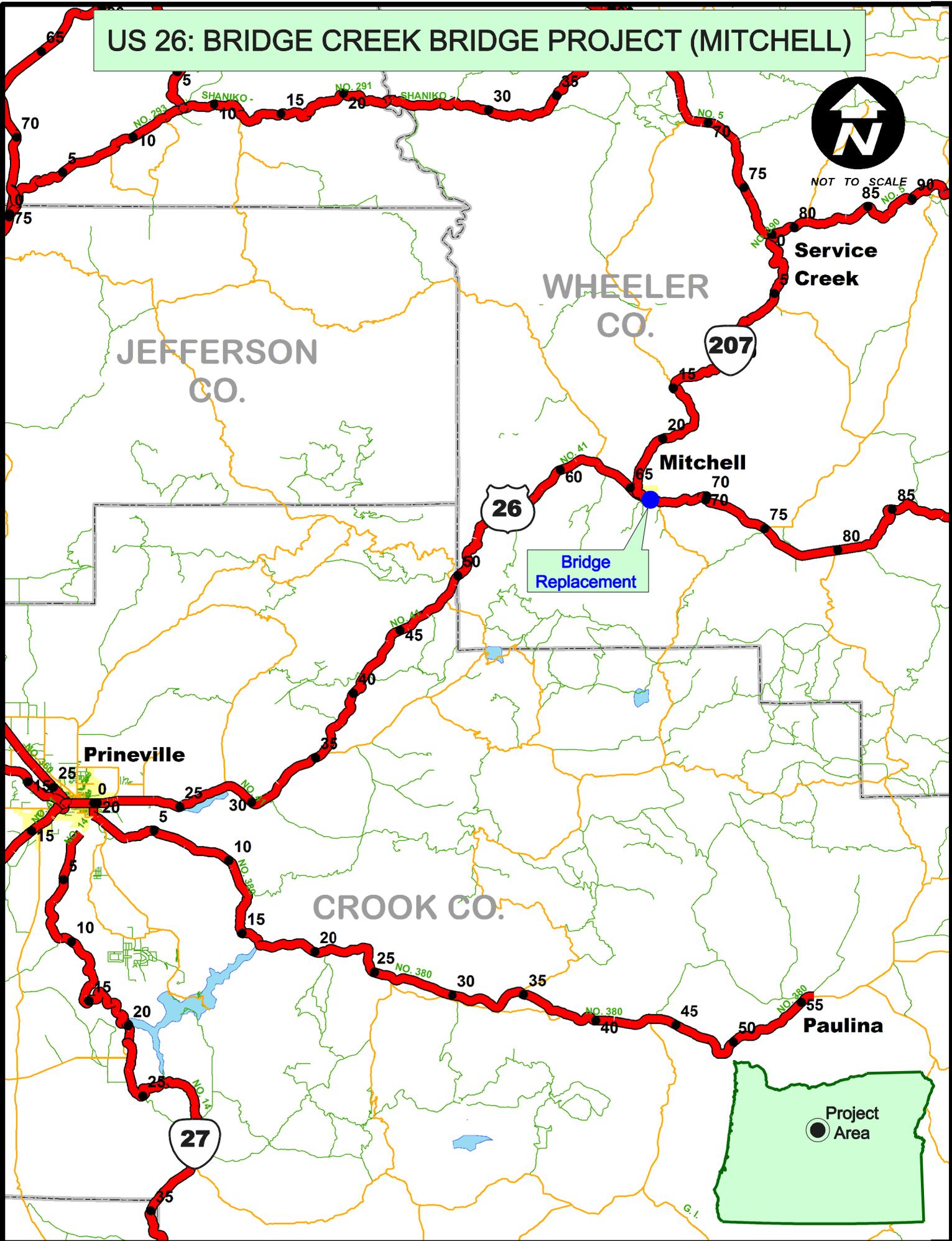
Contacts

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US 26: BRIDGE CREEK BRIDGE PROJECT (MITCHELL)



NOT TO SCALE



WHEELER CO.

JEFFERSON CO.

CROOK CO.

Service Creek

Mitchell

Prineville

Paulina

26

207

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Bridge Replacement

Project Area