

Goodpasture Covered Bridge Rehabilitation Project

MP 0.035

Estimated Road Fund Cost \$120,750



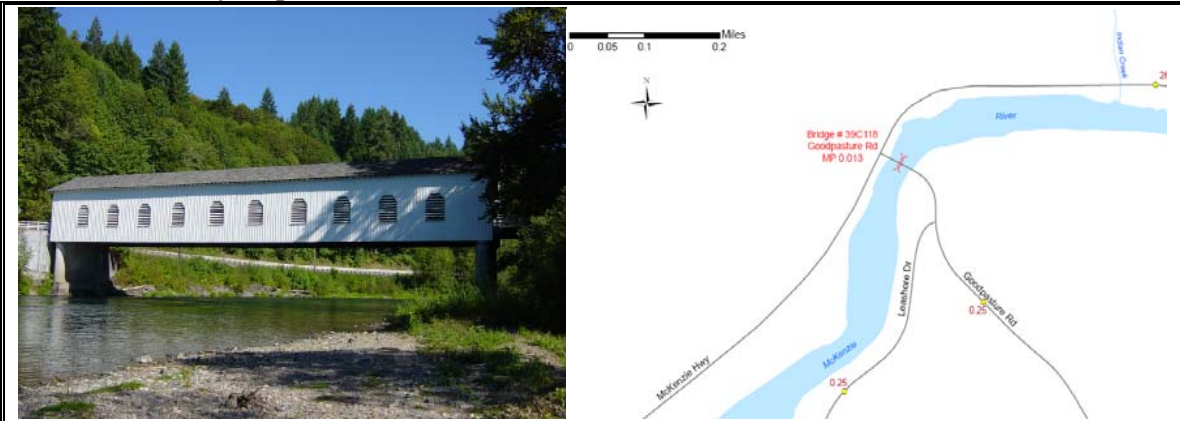
Project Scope: Replace roof, replace decaying structural members, and paint Goodpasture Covered Bridge.

Project Limit	MP 0.013 to 0.058	Road Name:	Goodpasture Road
Functional Class	Minor Collector	Project Status	Previously Adopted
Length	0.045 mile	Project Category	Structures

Existing Bridge Condition

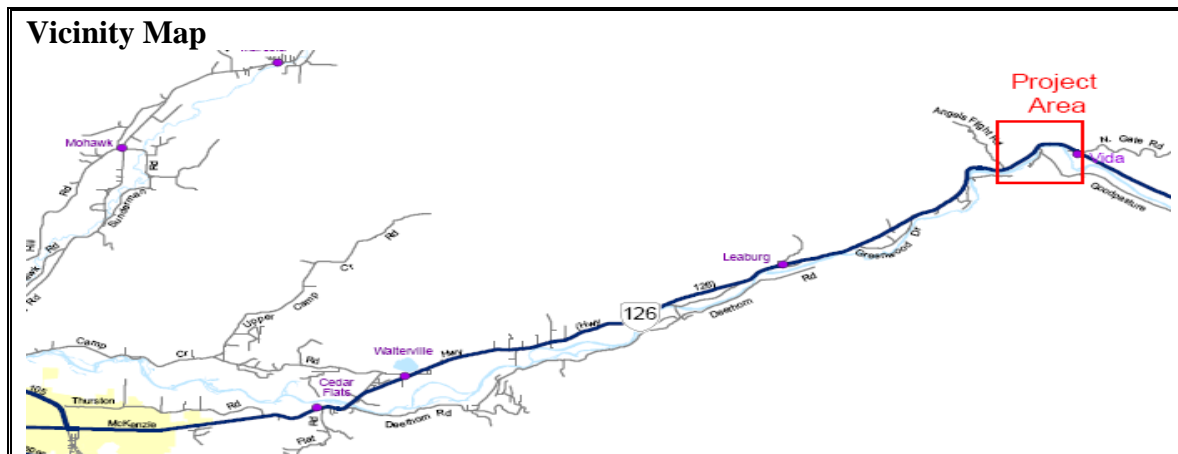
ADT	1,000	Truck Traffic	100
Bridge Type	Covered Bridge	Load Rating	15 ton
SR	20	Height	15.25 feet
Width	19 feet	Span	240 feet

Location / Vicinity Map



Define the Problem

The bridge is a 71-year old timber structure having a 240-foot long span. The long span together with decaying bridge members, heavy roof dead load have resulted in a poor bridge rating. Previous repairs using steel tie rods and glulams have added significant weight to the bridge. As a result, the bridge is progressively sagging at the mid span. The current bridge sufficiency rating is 20. The bridge was recently load rated at 15 tons due to previously undiscovered pockets of rot and cracking in the bottom chord. A complete bridge replacement is warranted.



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Proposed Solution

Replacing decaying structural members and substitute heavy roofing material with light roof material. A recent inspection indicates that the bridge may need additional improvements other than the previously identified mitigation measures.

Project Cost (\$,000s)

PROJECT ELEMENT	TOTAL	FY 11	FY 12	FY 13	FY 14	FY 15
Pre-Engineering	\$45	\$45				
Right-of-way Phase 1						
Construction Engineering	\$108	\$108				
Construction -structure	\$475	\$475				
Construction-Roof	\$202	\$202				
Consultancy	\$75	\$75				
Others-Bridge paints	\$100	\$100				
Total Cost	\$1005	\$1005				

Funding Source (\$,000s)

FUND SOURCE	TOTAL	FY 11	FY 12	FY 13	FY 14	FY 15
Road Fund –NHCBP	\$21	\$21				
Road Fund-HBP	\$75	\$75				
Road Fund- Paints	\$100	\$100				
NHCBP Fund-New Roof	\$181	\$181				
HBP Fund-structural imp	\$628	\$628				
Other						
Total Fund	\$1,005	\$1,005				

Factors for Project Selection

Safety Improvement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Plan Consistency	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Structural Capacity Enhancement	<input type="checkbox"/>	<input type="checkbox"/>	Economic Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Congestion Improvement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Supports Tourism, Recreation	<input type="checkbox"/>	<input type="checkbox"/>
Provides Bike/Ped Alternative	<input type="checkbox"/>	<input type="checkbox"/>	Preserves Bridge Pavements	<input type="checkbox"/>	<input type="checkbox"/>
Degree of Users Benefits	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Has Public Support (Public Request)	<input type="checkbox"/>	<input type="checkbox"/>
Leverages Other Projects/Funds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Total Factor Considered		9

Footnotes[†]

The Goodpasture Covered Bridge project has been funded through the National Historic Covered Bridge Program (NHCBP) and approved in CIP10-14. Staff has since applied for additional Highway Bridge Program (HBP) funds to address structural deficiency in the bridge. The costs and fund source shown above are based on the HBP funding application. The recent discovery that the bottom chords are rotten beyond repair may require the project be re-scoped, potentially for total replacement. If the bridge replacement option is adopted, this project is likely to be cancelled.

The Road Fund cost shown includes the required match to qualify for federal dollars, calculated at 10.27%. In addition to the new roofing and structural rehabilitation, the bridge has been proposed for painting. The paintwork is not covered by either funding sources; an additional \$100,000 has been allocated for this purpose.