



A Tradition of Stewardship
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Agenda Date: 8/19/2014

Agenda Placement: 10C

NAPA COUNTY BOARD OF SUPERVISORS Board Agenda Letter

TO: Board of Supervisors

FROM: Rick Marshall for Steven Lederer - Director of Public Works
Roads Department

REPORT BY: Rick Marshall, Deputy Director of Public Works - Engr - (707) 259-8381

SUBJECT: Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street Preliminary Findings

RECOMMENDATION

Director of Public Works to present report on Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street and discuss the preliminary findings from the Condition Assessment and Improvement Feasibility Evaluation report prepared by Biggs Cardosa, Inc. dated July 29, 2014.

EXECUTIVE SUMMARY

On May 5, 2014, the historical stone masonry arch, Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street was damaged in a traffic collision, and had to be closed to traffic due to the extent of the damage to the bridge railing and spandrel wall. This bridge carried eastbound traffic on Trancas, which was intending to turn right and travel southbound on Silverado Trail, which is State Route 121 in this location.

Public Works has retained a consultant to evaluate the condition of the bridge and the feasibility of various improvement alternatives. Staff will present the report for the information of the Board and the public. Following today's item, staff will be conducting further analysis of the consultant's work and return to the Board for final direction in selecting the approach to move forward.

PROCEDURAL REQUIREMENTS

No action required.

FISCAL IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	No

What is the revenue source?	The revenue source will depend on the selected repair option. One potential funding source is the Federal Highway Bridge Program, though some amount of County funding is needed for all of the available options. The County Road Fund has an available balance of approximately \$1.7 million dollars which could provide funds for this project.
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street was substantially damaged in a traffic collision in May and has been closed to motor vehicle traffic since then. Funding will be needed to construct repairs to this unanticipated damage, and sufficient funds are not available through standard Roads funding sources.
Is the general fund affected?	Yes
Future fiscal impact:	Environmental review, design and construction are anticipated to take anywhere from three to ten years, depending on the complexity of the alternative selected. The County's share of costs is estimated to range from \$300,000 to \$700,000. Funding for the associated County share will need to be appropriated in future fiscal year budgets throughout the life of the project.
Consequences if not approved:	The damaged bridge will not be repaired and will remain unavailable to motor vehicle traffic, potentially representing an inconvenience for residents and travelers in the vicinity.
Additional Information:	<p>County staff is pursuing reimbursement for these costs from the insurance provider of the motorist who was determined to be at fault in the May 5 collision. However, limitations on coverage and the existence of other claimants (three other vehicles were involved in the collision and experienced substantial damages and injuries), lead staff to expect minimal compensation from this source.</p> <p>Federal funding for bridge replacement and rehabilitation uses a standard formula of 88.53% federal, 11.47% local funds. Bridges that are not located on the federal-aid system are eligible to apply "toll credits" toward the local funds obligation. The Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street is on the federal-aid system. Therefore, it would not be eligible for toll credit funding and the County would have to provide the 11.47% match for any federally-funded alternative selected.</p>

ENVIRONMENTAL IMPACT

ENVIRONMENTAL DETERMINATION: The proposed action is not a project as defined by 14 California Code of Regulations 15378 (State CEQA Guidelines) and therefore CEQA is not applicable.

BACKGROUND AND DISCUSSION

The historic Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street was substantially damaged in a collision the evening of May 5, 2014. This bridge carried traffic which was eastbound on Trancas Street, intending to turn right and travel southbound on SR 121 Silverado Trail. A large section (approximately 30 feet) of the stone

railing on the south side was separated from the bridge and the pieces fell into the creek bed below. Another major section (approximately 30 feet), known as a "spandrel wall" was significantly disturbed (moved several inches) but is still attached to the bridge.

County crews closed the bridge to traffic and all traffic was routed through the adjacent "all-way stop" intersection at Silverado Trail and Monticello Road. This resulted in significant traffic delays during the first week following the collision which caused the damage. The first priority during this time was public safety. Crews secured the gap in the railing so that pedestrians and bicyclists may use the bridge in the meantime.

The next priority was to improve traffic operations of the all-way stop intersection. Public Works staff developed a plan for reconfiguring the lane striping to account for the changed patterns of movement in the absence of the damaged bridge. The new striping plan was installed approximately one week following the collision, and provides essentially the same traffic capacity that the damaged bridge used to provide.

Public Works staff then retained a consultant to evaluate the condition of the bridge and the feasibility of various improvement alternatives. The study considered environmental and historic resource impacts and compliance requirements, improvement of traffic service, estimated costs, and potential eligibility for federal bridge funding. A copy of the consultant's report is attached to this agenda item.

A brief summary of the alternatives evaluated is as follows:

1. Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street - Railing and Spandrel Wall Repair Project. This alternative would only repair the damaged railing and spandrel wall but make no other improvements to the bridge, and reopen it to all traffic. This alternative is estimated to cost \$710,000. This repair will not remove the bridge from the "Functionally Obsolete" designation and therefore, this alternative will not qualify for the Federal funding. Because of funding restrictions, this alternative would have to be implemented entirely with County funds. It will take approximately three years to design, permit and construct, primarily due to the permitting process associated with historic structures.
2. Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street - Widening Project. This alternative would widen and rehabilitate the bridge to bring it into full compliance with current standards, and reopen it to all traffic. The estimated cost is \$3,850,000, of which approximately \$440,000 would be County funds. It will take approximately ten years to design, permit and construct.
3. Monticello Milliken Bridge (Bridge No. 21C0026) - Widening/Intersection Improvement. This would involve widening the newer bridge (we're calling it the "Monticello Milliken Bridge" to distinguish it from the "Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street" which was damaged in the collision). The result would be adding an additional lane between the all-way stop intersection (at Monticello Road/Silverado Trail south) and the signalized intersection to the west (at Silverado Trail north). This would essentially make permanent the traffic patterns which were implemented with the restriping work done following the collision. The project also includes the installation of a traffic signal to replace the all-way stop, and repair of the damage on the Trancas Bridge suitable for bicycle/pedestrian use only. The estimated cost is \$2,650,000, of which approximately \$300,000 would be County funds. It will take approximately five years to design, permit and construct.
4. Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street - Realignment. This alternative involves the construction of a new bridge adjacent to the damaged bridge. The new bridge would carry motor vehicle traffic, and the original bridge would be repaired for bicycle/pedestrian use only. This alternative is estimated to cost \$3,380,000, of which \$388,000 would be County funds. It will take approximately four years to design, permit and construct.

The above budgetary project estimates have been modified to include project management, quality assurance testing, post construction monitoring, contingency, and escalation costs to year of construction from those presented in the Condition Assessment and Improvement Feasibility Evaluation report prepared by Biggs

Cardosa, Inc, dated July 29, 2014.

The Milliken Creek Bridge (Bridge No. 21C0051) at Trancas Street was built in 1908 and is listed in the National Register of Historic Places. As a result, all work on the bridge would involve compliance with the Secretary of the Interior's standards for rehabilitation. All state environmental and permitting requirements would apply to all work; federal requirements would only apply to those alternatives which would utilize federal bridge funding.

Staff will present the report for the information of the Board and the public. Following today's item, staff will be conducting further analysis of the consultant's work and return to the Board with a recommendation and for final direction in selecting the approach to move forward.

SUPPORTING DOCUMENTS

- A . Site layout map
- B . Condition Assessment and Improvement Feasibility Evaluation

CEO Recommendation: Approve

Reviewed By: Molly Rattigan