

TO: MAYOR AND CITY COUNCIL

FROM: NEIL JENSEN, City Administrator

SUBJECT: 3rd Street Bridge Closure

MEETING DATE: September 15, 2020

BACKGROUND:

The 3rd Street bridge is set to be restored in the spring of 2021. Plans and specs have been drafted and the project is out for bids. There is a state and federal grant that will pay for the majority of the project with the City of Cannon Falls paying a small portion (\$20,000). The total engineer estimate for the project is over \$2 million.

Annual inspection by MNDOT bridge inspectors found the following significant findings.

See below from inspector:

- Floorbeam 10 has had ongoing issues for over a decade. Due to large areas of section loss the stringers at the north abutment were retrofitted to be supported directly by the North abutment. I-beam Stringers 2-6 were all retrofit in this manner. (ST039) Stringers 1 and 7 are channels. They were both being supported at the abutment by floorbeam 10. The steel around both of these stringers has deteriorated away almost completely so there is very little steel supporting these stringers. (ST043-ST051) Stringers 1 and 7 are not in the wheel tracks of this one lane 5 Ton posted bridge. There is currently no visible movement of the stringers when traffic passes overhead. In addition, Floorbeam 10 has continued to deteriorate. There is now through corrosion in the web under the top flange angles from Stringer 2 to 6. Movement of the abutments likely the North one has caused the back wall to contact the truss and Floorbeam 10. The bottom flange of the Floorbeam from Stringers 2 to 6 has twisted to the south 2" due to this movement.
- The deck over Floorbeam 1 has continued to deteriorate and a temporary patch until the deck gets replace should be considered here.
- These are the same findings that were reported on 8/18/2020. No further significant findings were observed.

Greg Isakson, Goodhue County Engineer has closed the bridge until further discussion on a temporary fix or if the City wants to keep it closed until March when the restoration of the bridge will begin.

In reviewing the attached email from Greg Isakson, he has contacted an engineering firm that works on these types of structures. They will get us an estimate for the temporary repair before the meeting. This would keep the bridge open until March, 2021 when restoration begins (6 months).

We have 2 options to consider:

1. Consider the cost of the temporary repair (to be made available at the meeting) and fix the bridge and reopen it until March.
2. Keep the bridge closed until March, 2021 and allow just pedestrian traffic including bicycles. This would save the city a repair cost for a temporary fix.

STAFF RECOMMENDATION

Consider the cost of the temporary repair (to be determined) vs. the inconvenience of closing off the 3rd Street bridge over the winter. The bridge will remain closed until either fixed or restored next year.

It is hard to determine the best option until a cost can be established for the repair which should be available at the meeting.

REQUESTED COUNCIL ACTION

Please consider both options.

Neil Jensen

From: Isakson, Greg <greg.isakson@co.goodhue.mn.us>
Sent: Thursday, September 10, 2020 4:39 PM
To: Neil Jensen
Cc: Greenwood, Jess; Seaberg, Ethan; Anderson, Brad
Subject: Close Br L5391 on 3rd St.

Neil, MnDot recently inspected Bridge L5391 on 3rd St., and today I received a recommendation to either repair or close the bridge.

We sent the inspection information to a bridge consultant we regularly work with and asked him to give us estimate for a temporary repair that would allow traffic at a weight up to 5 tons to once again use the bridge.

Based on MnDot's recommendation, our crew will close the bridge first thing tomorrow morning. If the City decides to temporarily repair the bridge we will remove the barriers once the repairs are made. If the City decides not to repair the bridge, those barriers will remain until the bridge is closed for the rehabilitation project that is scheduled to begin next spring.

If you prepare an notice to your citizens of this closure, please send us a copy and we will also post it on our webpage.

Call if you have any questions.

Greg Isakson
Goodhue County Public Works
(651) 385-3025

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CLEARANCE
8 FEET

ROAD
CLOSED