

October 25, 2023

Trevor Walter
Public Works Director/City Engineer
City of Baxter
131910 Memorywood Drive
Baxter, MN 56425

RE: Whisky Creek Bridge
Structure Evaluation
2023-11678

Per your request we completed a field inspection of the Whiskey Creek Pedestrian Bridge to determine any immediate and long-term repair or maintenance items. The bridge is a steel truss style manufactured by Continental Bridge, the steel is corten and the deck is wood. Corten steel is used because it forms a dark brown oxidation over the metal that protects the steel from further corrosion and does not require painting. The steel truss is also a railing system that is 42" above the walk surface. The bridge is 30 feet long and 8 feet wide. Each end of the bridge is supported on a concrete abutment.



The bridge superstructure is in good condition with no noticeable defects in the steel portion. The timber plank are in fair to good condition with some minor deterioration starting. The concrete abutments are showing signs of severe deterioration along the top of the backwall and abutment seat,

the deteriorated concrete has extended under the northeast truss bearing seat. The deterioration extends about 50% under the seat. This is mostly occurring on the north abutment.



The condition of the abutments should be addressed in the next 12 – 24 months. It is anticipated the abutments can be repaired but will require the truss be lifted off, the deteriorated concrete at the top portions of the abutment be removed to sound concrete, new reinforcement installed and patch concrete placed. The bridge could also be relocated onto new abutments if there is a better location for the bridge. The wood decking appears like it will last another 4 – 5 years before it will need to be replaced. No repairs to the steel truss will be needed in the foreseeable future.

At the time of the inspection there was dirt and grass growing over some of the bearing plates, these bearing plates should be kept clean to prevent moisture and deterioration of the steel and anchor bolts.



Please contact me if you need any additional information.

Sincerely,

Widseth


Kent A. Rohr, PE