

City Council Agenda Item Memo

From: Charlie Richter

Council Meeting: November 28, 2023

Subject: Informational Report: 2023 Bridge Re-Inspection Program

Presenter: Chris Brozik, Civil Design Inc.

Summary:

Civil Design Inc. will present findings from the inspection of the bridges within the City of Brookings city limits to the City Council and the public. This is an annual informational presentation only.

Background:

The South Dakota Department of Transportation (SDDOT) manages the Bridge Inspection Program as part of the National Bridge Inspection Standards (NBIS) Program. All bridges and box culverts in the program are required to be inspected at intervals not to exceed two years, with the exception of reinforced concrete box culverts that meet specific criteria. The City of Brookings has three (3) bridges and one (1) box culvert in the program (see attached map).

The City follows the NBIS standards so Federal Bridge Replacement Funds can be utilized to hire consultants for the inspections. The SDDOT has secured the federal approvals and will make the payments to Civil Design Inc. for the inspection services. The SDDOT also provides for 80% funding for the inspection and the City provides the 20% match, which will be paid out of the Drainage Fund. The average cost of the inspection is approximately \$7,000, with the City match being approximately \$1,000. As required by the program all findings are to be shared publicly.

Civil Design Inc. also inspected one (1) City-owned bridge, located within the Brookings Regional Airport property. This bridge is not in the NBIS program and the inspection cost of approximately \$1,000 is funded out of the Airport Fund.

The one box culvert in the inspection program located on Western Avenue was reduced from fair condition to poor condition. Preliminary engineering to replace this culvert has been accomplished and replacement will occur in the coming years. Also, at a bridge on Medary Avenue, the inspectors observed scouring at one of the footings that will be addressed with a contractor in the coming year. The rest of the structures noted small items which will be addressed in the coming year. None of these issues will require major expenditures to address.

Item Details:

This is an informational item only and does not require any City Council action.

Legal Consideration:

None.

Strategic Plan Consideration:

The bridge inspection program is required by the state and federal government.

Strategic Plan Area(s) which align with this item, include:

- 1) Fiscal Responsibility – Appropriate preventative maintenance of bridges will reduce the life costs of the structures.
- 2) Safe, Inclusive, Connected Community– Bridge inspection programs help ensure that our bridges remain safe for our community.

Financial Consideration:

The costs associated with the bridge inspection program are included in the 2023 amended budget, Org. 282 – Storm Drainage Fund, and Org. 606 – Airport Fund.

Options and Recommendation:

This is an informational item only and does not require any City Council action.

Supporting Documentation:

Presentation

Location Map