Ivins City Staff Report
City Council Meeting 10/20/2022

Agenda Item: Consider approval of expenditure for video inspection of sewer lines

Submitted by: Charles R Gillette, P.E., Public Works Director and City Engineer

Recommended City Council Action:
Approve expenditure of $27,000 for video inspection of sewer lines.

BACKGROUND:
Inspection of sewer lines is considered a best practice for proper maintenance of a sewer collection system. You may recall that the maintenance report that we file with the State asks a yes or no question about whether we video inspect our lines at least once every five years. We have marked no, as we have moved to a program where our main method of inspection is the sonar system.

Even though we are using the sonar system as our main method of finding clogs in our system. Once we detect clogged pipelines, we will clean the pipeline and then video the pipeline to see if the cleaning removed the clog or if there are other problems in the system.

There are some problems, however, that cannot be detected with sonar equipment. We can safely increase the frequency to once per 10 years with the sonar inspection. Some of the problems that are undetectable with the sonar equipment are: minor clogs, minor root intrusion, pipeline cracks, punctures, minor pipeline dips, minor grease buildup.

This approach is still considered to be huge cost savings versus conventional clean and video style of maintenance.

FINDINGS AND ANALYSIS:
Ivins City has contacted two video inspection companies. The results of the bids are as follows:

Twin D: $0.46 per foot of sewer pipe, can video 58,000 feet of pipe for the budget amount
Kotter and Sons: $0.95 per foot sewer pipe, can video 28,000 feet of pipe for the budget amount.

Ivins City has approximately 360,000 feet of sewer lines that need camera inspection. By using Twin D, the City can camera 16% of the system. We need to catch up on video work since we have not been using video inspection for several years. Once we catch up we can reduce our budget to video 10 percent of the system each year.

SUPPORT MATERIALS:
Map of Sewer System

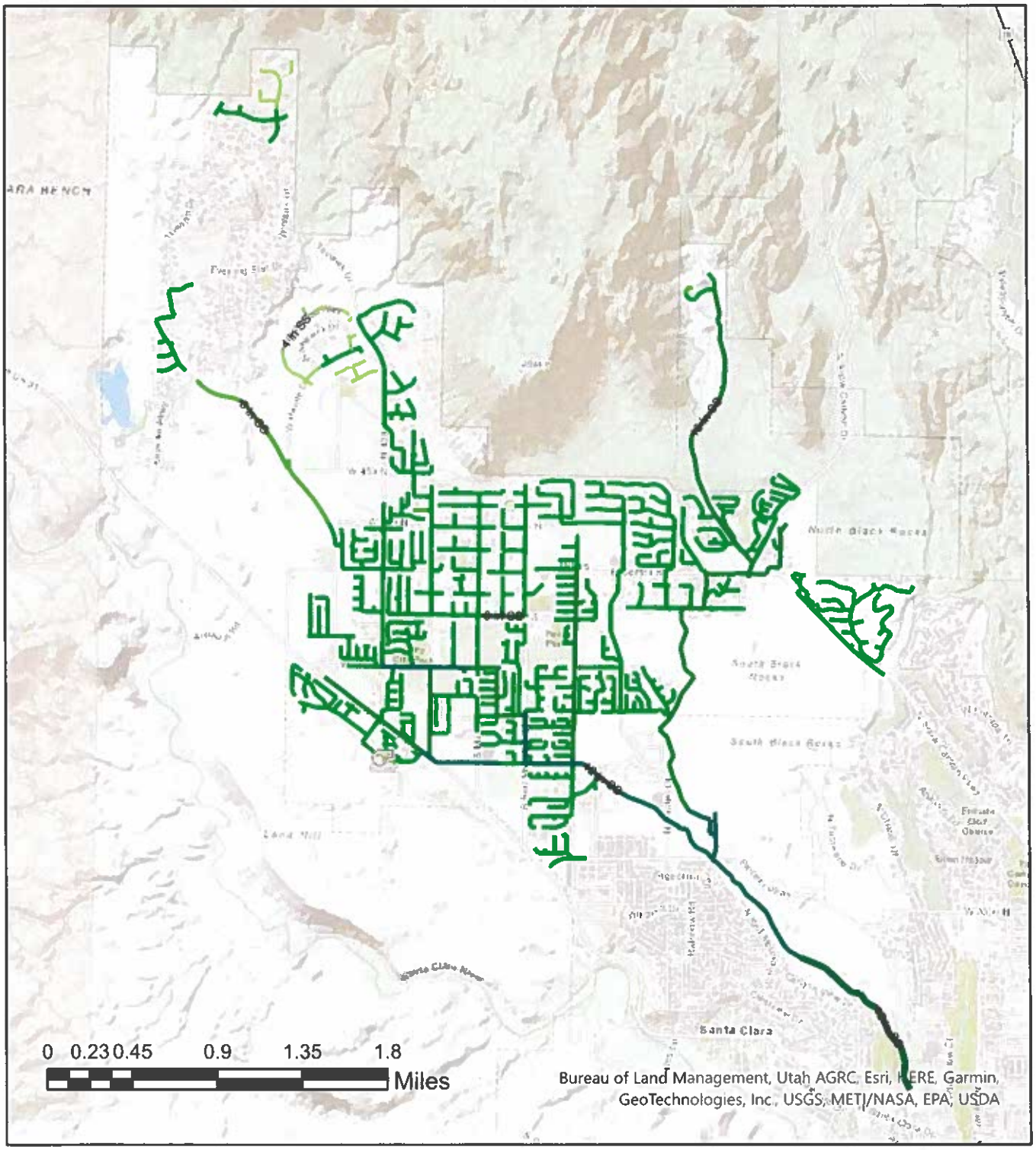
FINANCIAL IMPACT:
This item has been included in the FY23 Budget:
52-4031.5: $27,000

Respectfully Submitted:

Charles Gillette, P.E., Public Works Director/City Engineer

Content Review:

Dale Coulam, City Manager



Sewer Collection System Map

IVINS CITY

Revision Date:
10/10/2022

Aerial Date: 2022

Public Works Department
GIS Mapping
(435)-634-0689

Print Date: 10/10/2022

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