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ROSEVILLE BEGINS REHABILITATION OF PIPELINES

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ABSTRACT: The City of Roseville owns and operates a water and wastewater system valued collectively at over \$1.3 Billion. Together the two utilities include some 500 miles each of water distribution and sewage collection system piping along with treatment facilities. The utilities date back to 1906 when the first water pipelines were constructed. With approximately 80% of its infrastructure value invested in buried assets and a significant portion of those assets approaching 100 years of age the City has implemented an aggressive and proactive rehabilitation program.

In 2000, the City began development of its infrastructure rehabilitation program for the water and wastewater utilities. Now with the program in place, the wastewater utility conducted a benchmark Wastewater Collection System Condition Assessment (WWCSCA) program in 2005 starting with portions of its downtown collection system that are over 75 years old. The condition assessment resulted in rehabilitation CIP.

The City set five (5) key goals as being critical for WWCSCA success:

- 1) Visual Inspections: Accurately inspect each pipe and manhole.
- 2) Uniform Criteria: Develop tailored rating criteria and train City staff on its use.
- 3) Recommend Improvement: Recommend the most appropriate rehabilitation techniques.
- 4) Data Input and Integration: Develop an interface with the City's Hansen CMMS.
- 5) Develop a list of improvements based on condition and risk-based criteria for prioritization.

This presentation describes the methodology for conducting the WWCSCA and the results.