

**CITY OF CASSELTON**  
**Monday, April 2, 2012**  
**PUBLIC INFORMATION MEETING 6:00 P.M.**  
**Council Chambers**

Present: Mayor Edward McConnell, Councilmen Phil Spooner, Fred Wangler, Steve Link, Phil Spooner, and Craig Tillisch. Also present: City Attorney Del Losing, City Engineer Brandon Oye, Public Works Supervisor Kevin Mayer and City Auditor Sheila Klevgard.

The purpose of this meeting was to provide information on the condition, current need and proposed improvements to the sanitary sewer system and to provide an estimated cost of the Street & Sewer District 24 project. The sanitary sewer mains consist of vitrified clay pipe (VCP) and polyvinyl plastic pipe (PVC). Some of the VCP is invaded by tree roots and infiltrated by ground water due to cracks in the pipe. The existing manholes are mostly cast-in-place with bricks or blocks with some modified with untested technology in 1997. The problems can cause sewer backups which the city has had some and overloading the capacity of existing lagoons. Pumps are running faster than the pipes can bring the water in.

This project should start in the summer of 2012 using cured-in-place-pipe to line the existing pipes creating a new pipe inside of the existing pipe. Once cured the service lines are cut out robotically and leaves a pipe without any seams. If a street is replaced, this is not cost effect. It also is not a proper use to get rid of dips and sags. Manholes are sprayed with a ¾" grout and then sprayed with an epoxy to protect against sewer gases that can eat away at the grout.

Three air release valve manholes will be installed to remove air buildup in the pipes allowing water pressure to be reduced.

The plan is to reline the Front Street 10" pipe from 6<sup>th</sup> Avenue to 8<sup>th</sup> Avenue and replace 10" VCP with 12" from 8<sup>th</sup> Avenue to 10<sup>th</sup> Avenue where it meets the lift station for the force main. Flow is 2-3 feet per second on a gravity main and 4-5 feet per second on a force main.

Cost estimate is \$620,000 to reline mains, manholes and force main work. The Front Street option is \$367,000 with a possible \$215,000 FEMA Hazard Mitigation Grant which would require a local contribution of \$152,000. Option 2 to only reline Front Street is \$141,000

Project financing is estimated at \$4.91 per user per month for the base bid and an additional \$1.10 to \$2.90 per user per month for the other options. The city has increased sewer rates by \$10.00 per month per residential user and a comparable increase for commercial users to cover costs of this project and part of future sewer projects.

Respectfully Submitted,

Sheila K Klevgard  
City Auditor