

CITY OF LLANO

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Water & Wastewater System Improvements Funded by the City's Issuance of Certificates of Obligation: Fact Sheet

Projects:

Northern and Southern Pressure Planes

This project is to address the northern and southern pressure planes in the water distribution system and is to include removing some existing PRVs (Pressure Reducing Valves) and installing new ones. The purpose is to reduce the line pressure to target levels (35-80 psi) which would result in a decrease in leakages system wide.

Water Treatment Plant Chlorine System Upgrade

This project is to update and expand the chlorination facilities at the water treatment plant. This may include replacing the two sets of four existing 150 lb chlorine bottles at the plant with two proposed 1 ton chlorine bottles. Changes may also include updating the chlorine delivery header from a pressure driven system to a vacuum driven system. Increasing the bottle size will allow the plant to more easily meet TCEQ's guideline of being able to dose 50% more chlorine on a max treatment day. This is expected to also result in chlorine cost savings.

Air Release Valves

This project consists of auditing the water system to ensure air release valves (ARVs) are installed and functional at all local high points along transmission mains within the system. Distribution lines within the city do not need to be audited – service connections will release any trapped air.

Main Street Trunk Line Replacement

This project may include engineering service for the Main Street Trunk line replacement. The Main Street Trunk Line Replacement Project is the highest priority CIP project as determined by Steger/Bizzell Engineering Firm. Recently a portion of the line collapsed, causing sewage back up along Oatman and E. Haynie. The eastern portion of this line carries all of the city's sewage to the wastewater treatment plant. This main trunk line is not graded at the level recommended by the City's engineer and in some locations, sewage is conveyed uphill. This project may require regrading and replacement of over 7,000 feet of pipe and

replace 30 manholes. Additional construction funds have been applied for through the Texas Water Development Board.

AC Line Replacement on Sandstone

This project may include engineering services for Abestos Cement (AC) water line replacement on E. Sandstone St. The CIP recommends phasing out AC pipes in Llano's water network. An existing AC line is located on E. Sandstone and on a section of Oatman St. and Haynie St. corresponding to the location of a high priority sewer improvement project, and it is recommended that the water line be replaced simultaneously. Construction funds have been applied for through the TWDB.

Wastewater Treatment Plant Infiltration System

This project includes improvements to the City's wastewater treatment plant (WWTP) to add cloth media filters, an alum chemical feed system, and a pipeline from the existing irrigation storage ponds to the discharge permit outfall location at the northwest corner of the WWTP plant site property. The cloth media filters and chemical feed system will serve two joint purposes for the city. First, the improvements are required in the pending TCEQ discharge permit, which is expected to be issued in the near future. In addition, the proposed improvements will enable the plant to produce type 1 reuse water, allowing the city to pursue a water re-use system while keeping the existing effluent irrigation holding ponds in service. With the proposed plant improvements, the City will have the flexibility to discharge wastewater effluent to the Llano River during extremely wet weather conditions, to continue using the storage ponds and irrigation system to irrigate the plant site property, and to produce type 1 quality re-use water allowing the City to pursue more water re-use options. Additional funds have been applied for through TWDB.

Wastewater Treatment Plant Headworks Replacement

This project consists of the replacement of two existing rotating drum fine screen headworks units at the City's wastewater treatment plant (WWTP). This project is recommended by the City's engineer due to costly recurring maintenance required by the existing headworks units. The headworks units are regularly out of service for maintenance related activities. This project includes removal and demolition of the existing headworks units and the installation of two new 1,050 GPM rotating drum fine screen headworks units with 0.060" (1.5mm) slotted screen openings. The project also includes influent header piping modifications and electrical/controls modifications to accommodate the new headworks units.

Amount: \$1.7 Million Certificates of Obligation (3.036%): 20 year Payback

Who: Customers of City of Llano water and wastewater services

Impact: These projects will be funded through utility rate increases. Projected increases may be as follows: Water Rates; base rates unchanged; tier 1 will be \$2.30/1000 Gallons; tier 2 will be \$4.03/1000 gallons, and tier 3 will be \$5.75/1000 gallons. Wastewater Rates: Base rate unchanged; tier 1 will be \$1.81/1000 gallons, tier 2 will be \$2.16/1000 gallons, tier 3 will be \$2.52/1000 gallons, tier 4 will be \$2.88/1000 gallons, tier 5 will be \$3.25/1000 gallons and tier 6 will be \$3.60/1000 gallons.