



City of Lucas, Texas

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## **WATER PROJECTS – April 2016**

**DEAD END WATERLINE ELIMINATION** – Staff has been reviewing various alternatives regarding connections of dead end waterlines in an effort to reduce the design cost of these projects in the FY 15-16 budget. Staff may determine that installing dead end automatic flushing devices is the most economical way to proceed but requires the loss of thousands of gallons of water each month. The city is studying the effectiveness of a low cost flushing system. The first one was installed on Rock Ridge Court, and the second was installed on Edgefield Lane. The goal is to send discharged flush water into a pond or watering trough instead of simply letting it flow onto the ground. Another part of this work is to eliminate long services connections.

BW2 Engineers has been developing a Lucas waterworks map. The map shows 83 dead end connections though out the system. After the first round of review, City Engineer Stanton Foerster is considering continuing to flush 40 of these dead ends. The other 43 are being priorities based on the cost effectiveness, water quality improvements, fire protection availability, number of service connections, etc. In the future, staff will present a plan to the City Council for funding in connection with other water capital improvement projects. (04/2016)

**PARKER ROAD WATERLINE PHASE 1** – This design project is from Stinson Road to Southview Drive. BW2 Engineers have finished the plans. The project is being split into two construction projects: 1) Stinson Road to Enchanted Way and 2) Enchanted Way to Southview Drive. One easement is needed form a homeowner on Toole Drive. A consulting firm will be selected by staff to obtain the easement. During the mid-FY 15-16 budget adjustment, staff will request that the City Council move funds allocated for Parker Road Waterline Phase 2 to Phase 1-1. Until then the construction of this project has not been funded yet. Staff is anticipating developer assistance in paying for the Enchanted Way to Southview Drive project (Phases 1-2 and 2). (04/2016)

**PARKER ROAD WATERLINE PHASE 2** – This project has \$400,000 of funded in the FY 15-16 budget. The funding is for the design and construction of the waterline. The project limits are from Shepherd's Creek Drive along Lewis Lane to the Parker Road/Santa Fe Trail intersection. With the delay in the TxDOT Western Parker Road Project, the urgency of this waterline project is lessened. (11/2015)



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**PARKER ROAD WATERLINE PHASE 3** – This project is not funded. Staff anticipates the construction of the waterline between Santa Fe Trail and Stinson Road to be developer driven and not funded by the city. (11/2015)

**SINGLE PRESSURE PLANE** – There is \$100,000 for this project in the FY 15-16 budget. BW2 Engineers, Inc. have been engaged for the design work of the altitude value. This value will regulate the water tower water levels automatically when the two planes are converted to one. The BW2 design fee is \$9,800. Five permanent pressure monitoring devices were installed during February of this year. These devices will provide real-time pressure readings 24 hours per day via SCADA. Ten smaller mobile pressure reading devices will also be purchased for \$6,039 and installed during February and March. (04/2016)

**ASBESTOS CEMENT WATERLINE REPLACEMENT** – During the FY 15-16, the eight-inch asbestos cement (AC) waterline running from the Country Club Rd/Estelle Ln intersection to the old water tower at 325 W Lucas Rd along FM 1378 will be abandoned. There is a budget of \$10,000. Last year two water customers were moved to another waterline. There are still three customers connected to the eight-inch AC waterline. The customers have been contacted and two of the three new meters have been set. Staff's goal is to have the three homes on Estate Road move off the AC waterline by July 2016. The City of Lucas has been working diligently to eliminate all of the AC waterline within the Lucas waterworks. (04/2016)