

Memo



To: Clay Pearson, City Manager

From: Mahagony Isabell, Project Manager

CC: Trent Epperson, Assistant City Manager

Robert D. Upton, P.E., Director of

Clarence Wittwer, Director of Pub

Skipper Jones, Assistant Director

David Van Riper, Assistant Direct

Date: September 26, 2019

Re: Canterbury Water Quality

9/27/2019

To: Mayor and City

Council members

Forthcoming consideration of
construction award for water system
improvement. Clay

Purpose

This memo provides information about the progress on the Canterbury Water Quality project and the forthcoming proposed award of a contract for construction.

Background

The Canterbury Park subdivision has experienced periodic taste and odor issues with water in the subdivision in the past that with further analysis utilizing the new water modeling software can be attributed to the age of water in the lines. Age of water is defined as how long the water is in the distribution system until it is used by the customer. To assist in mitigating the taste and odor concerns, the City has previously tried a number of temporary solutions including but not limited to: scouring the waterlines, flushing the lines, treating the water, and switching the source of the water. The City conducts monthly testing at over 100 locations and results have indicated that the City water system meets or exceeds the Federal and State regulatory standards.

Taste and odor issues are directly related to the age of water in the system and this can be attributed to the oversized water main (12" diameter) within the subdivision and the number of dead end lines that were constructed as the subdivision has developed. (Newer modeling data and newer design criteria minimize the possibility of this occurring in new subdivisions.) Taste and odor are secondary constituents that are not regulated. Flushing the lines through the use of hydrants or automatic flushers will only temporarily relieve these symptoms and is a costly and inefficient method for addressing water quality within an affected system. The only effective solution for this issue is to eliminate the dead end lines by looping and extending mains to other mains to eliminate stagnant segments.

Bid and Award

The design for the Canterbury Water Quality Project was initially performed by City staff and then completed by ARKK Engineers. The design NTP was issued in July 2019 and design was completed in August 2019. Advertising for the construction phase of the project was based on Lowest Responsible bidder and commenced on August 28, 2019. Bids were opened on September 19, 2019. Nine contractors submitted bids ranging from \$527,955.00 to \$762,845.00. **Android Construction Services submitting the low bid of \$527,955.00 which is approximately 28% below the engineer's construction estimate of \$739,360.00.**

The Engineer has performed reference checks and background reviews of Android's qualifications with all yielding favorable results. The Engineer has reviewed the bids for mathematical error or other irregularities and, finding none, has provided a Recommendation to Award the contract for construction to Android Construction Services. **Staff will recommend Council award the contract for construction to Android Construction Services in the amount of \$527,955.00 on October 14th Council Agenda.**

The contract includes 120 calendar days for substantial completion with an additional 30 days to achieve final completion. With Council approval in October, Staff plans to hold the pre-construction conference in late October and issue the Notice to Proceed (NTP) at that time. **The expected completion date is March 2020 if the NTP is issued in October 2019.**

Budget Info

Funding Sources	Series	To Date	Future	Total Budget
System Revenue - Cash		1,000,000		1,000,000
Certificates of Obligation Bonds				-
Certificates of Obligation				-
General Obligation Bonds				-
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources				-
Total Funding Sources		1,000,000	-	1,000,000

Expenditures	To Date	Future	Total
PER			-
Land	17,700		17,700
Design	51,070		51,070
Construction		527,955	527,955
Construction Management/Inspection			-
Construction Materials Testing		25,000	25,000
FF&E			-
Total Expenditures	68,770	552,955	621,725

Project Balance/Contingency	378,275
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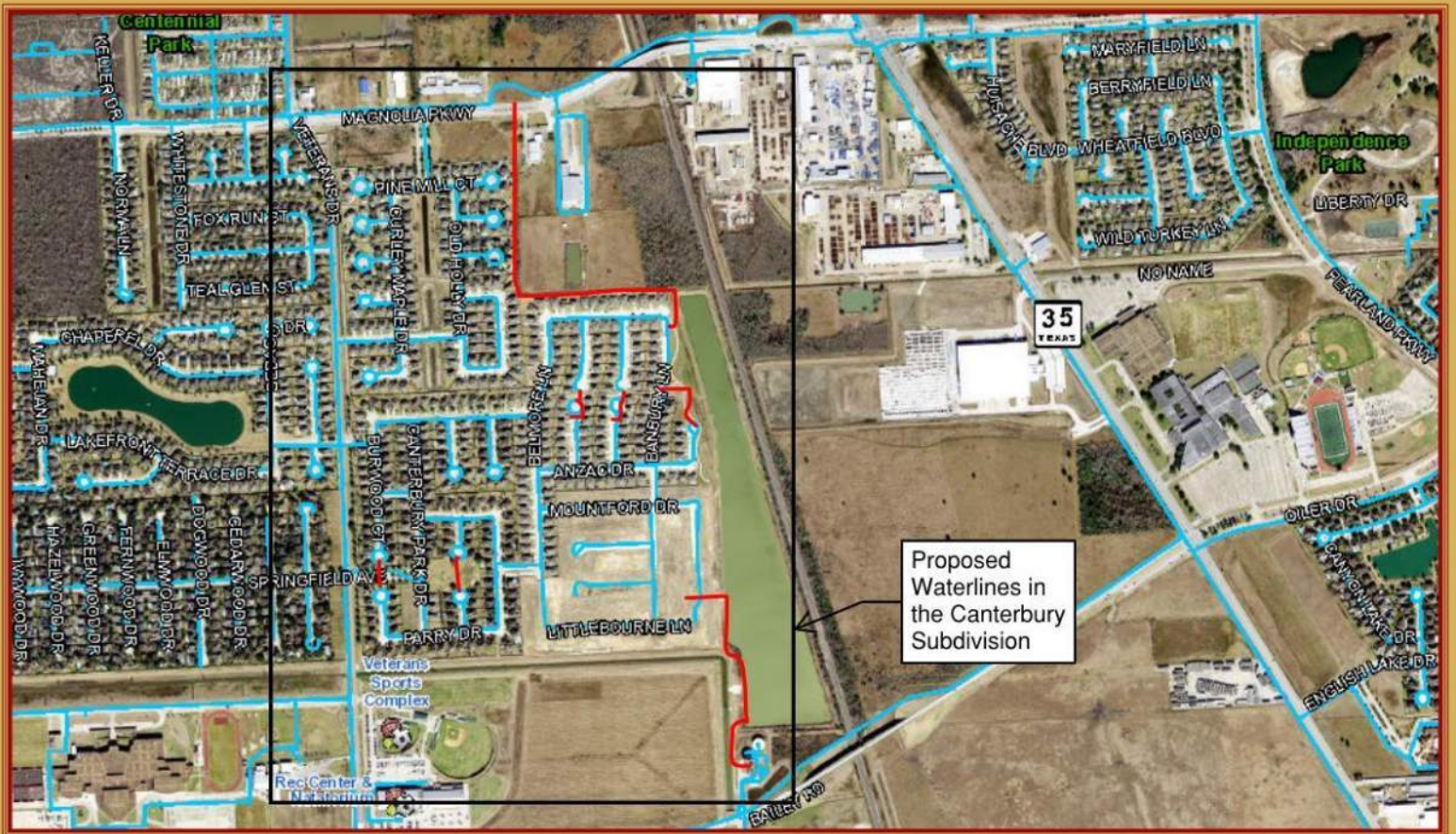
Schedule Info

	Base Line	Current
Design Start	December-18	December-18
Bid Start	April-19	July-19
Construction Start	November-19	
Proposed Construction Completion	March-20	

Rain Days: N/A

Map

VICINITY MAP



Legend/Notes

- Water Main
- Proposed Water Main

Canterbury Water Quality



1:12,000
1 inch = 1,000 feet

NORTH
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MLP PREPARED: SEP 23/2019