



Water, Sewer, and Solid Waste Committee

January 14, 2020

5:30 P.M.

(Or immediately following Equipment Committee Session)

City Hall – Room 326

Committee: Chairman Mark Kinion; Council Member Sonia Gutierrez, Council Member Sloan Scroggin, Council Member Teresa Turk

Copy to: Mayor Lioneld Jordan, Paul Becker, Kara Paxton, Susan Norton, Chris Brown, Alan Pugh, Terry Gulley, Peter Nierengarten, Jeff Coles, Brian Pugh, Mark Rogers, Corey Granderson, Aaron Watkins, Greg Weeks, Matthew Benton, Tim Luther, Sandi Formica, Matthew Van Eps, Marson Nance, Blake Murray

From: Tim Nyander, Utilities Director

CALL TO ORDER

ROLL CALL

OLD BUSINESS:

1. Cured-In-Place Pipe Contract Renewal with Insituform Technologies

On March 7, 2018, the City of Fayetteville accepted sealed competitive bids for sanitary sewer main line and service lateral lining services. Insituform Technologies, Inc. submitted the lowest bid (Resolution 84-18, Bid #18-22). The bid schedule includes unit pricing for various items of work in order to complete the annual rehabilitation program.

Direct contracting with Insituform Technologies, Inc. allows the City to execute its sanitary sewer rehabilitation program efficiently. Pipes being repaired with liners under this contract are either identified through normal City maintenance operations or by consultants during Sanitary Sewer Evaluation Studies (e.g., smoke testing, flow monitoring). Engineering and administrative costs are minimized as these services are handled by city staff. This work is an integral part of the City's ongoing program to maintain its sewer system in the most long-term yet cost effective fashion, with cured-in-place linings being by far the lowest cost strategy for applications where it is appropriate. This will be the 3rd year of a 5-year renewable contract with Insituform.

Staff recommends approval of a one-year extension of the contract with Insituform Technologies, Inc., as amended by Resolutions 144-18 and 81-19, in an amount not to exceed \$528,693.55 for City of Fayetteville sewer rehabilitation in 2020 using cured-in-place sanitary sewer linings.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

2. Purchasing Electrical Components for the Noland WRRF Upgrade

Allgeier, Martin, and Associates, Inc. was formally selected and awarded contract RFQ 17-01 for the engineering services design of overall electrical upgrades and improvements at the Paul R. Noland WRRF on 12/5/2017 (Res. 262-17). This design was completed and publicly bid in July 2019, with all bids higher than the approved certification of funds. Allgeier-Martin and City staff now intend to purchase large equipment portions of this project and subsequently bid only the labor and installation of these items. The large items include two high voltage switchgear, and 10 transformers.

The City's Purchasing division has identified this purchase as eligible through the US Communities Contract with Graybar Electric. The quote for these two switchgears is \$156,920.00 plus applicable taxes. The quote for the ten transformers is \$261,335.00 plus applicable taxes. Taxes are estimated at \$40,779.87 for a total cost of \$459,034.87.

Staff recommends approval of the purchase of two (2) high voltage switchgears and ten (10) pad-mounted transformers from Graybar Electric Company, Inc. required for the Noland Water Resource Recovery Facility (WRRF) Electrical Improvements Project

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

NEW BUSINESS:

3. Northwest Arkansas Land Trust and the Westside Prairie

During the negotiations and siting discussion for a 5 MW solar power generation facility and associated battery storage at the Westside Wastewater Treatment Plant, it was discovered that the preferred siting for the solar array, located to the northwest of the existing 43.8 acre Woolsey Wet Prairie, potentially conflicted with other existing environmentally sensitive wet prairie and oak savannah habitat at the site. Some of this area also potentially conflicted with the City Council supported 80-acre wetland expansion.

The City worked with the Northwest Arkansas Land Trust and Jacobs Engineering, who manages the Wastewater Treatment Plant, to relocate the proposed array to avoid the most sensitive lands on the property that includes approximately 44 acres of existing natural wet prairie and pristine oak savannah habitats.

In accordance with Resolution 235-13, the Mayor requests that the City Council consider placing a permanent preservation easement on these approximately 44 acres of existing natural wet prairie and pristine oak savannah habitats. Additionally, the mayor requests that the existing unused CIP monies originally intended for wetland expansion be instead used to help fund a management plan for the preserved acreage that would help restore native habitat, remove invasive plants and open access to the public. The Mayor and staff feel that ecological preservation and restoration of the existing habitats provide superior long-term environmental benefit to the area over the construction of additional engineered wetlands.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

4. Gregg St./Fulbright Expressway Engineering Svcs Agreement with Hawkins-Weir

The 2014 Wastewater Collection System Master Plan Update identified a sanitary sewer bottleneck in the vicinity of Gregg Ave. and the Fulbright Expressway. A feasibility study was conducted during 2019 looking at various options for improving capacity in this location. Alternatives included a new directional bore under the Expressway, a wet-weather pumping station, and a gravity re-route of existing sewer alignments. The study revealed that the gravity re-route was the most economical and desirable option.

Hawkins-Weir was formally selected for engineering services on this project (RFQ 19-01, Selection #27) on September 10, 2019. This engineering services agreement will allow Hawkins-Weir to complete an engineering design of approximately 900 linear feet of 15-inch gravity sewer mains, with associated manholes. This project will relieve an existing bottleneck in the collection system and help reduce the likelihood of sanitary sewer overflows.

Staff recommends approval of an agreement with Hawkins-Weir Engineers, Inc. for professional engineering services associated with the design and construction of a gravity bypass sanitary sewer near the intersection of North Gregg Avenue and North Fulbright Expressway in the amount of \$162,130.00.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

5. Manhole Rehabilitation Bid Award – Krapff Reynolds Construction Co.

On December 10, 2019 the City of Fayetteville accepted sealed competitive bids for manhole rehabilitation utilizing various techniques. Krapff Reynolds Construction Co. submitted the lowest bid of \$590,789.00. The bid schedule includes unit pricing for various items of work in order to complete the annual rehabilitation program.

Direct contracting with Krapff Reynolds Construction Co. allows the City to execute its sanitary sewer rehabilitation program efficiently. Manholes being repaired under this contract are either identified through normal City maintenance operations or by consultants during Sanitary Sewer Evaluation Studies (i.e., Smoke Testing). Engineering and administrative costs are minimized as these services are handled by city staff. This work is an integral part of the City's ongoing program to maintain its sewer system in the most long-term yet cost effective fashion. This will be the 1st year of a 5-year renewable contract with Krapff Reynolds.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

6. Replacement of the 24-inch Water Main on Morningside Drive

The 24-inch diameter waterline along Morningside Drive, between Huntsville Road and S. 15th Street is aging and experiences frequent leaks. This project will replace the old cast iron pipe with new zinc-coated ductile iron pipe, without causing any water outages or shut-downs.

On December 19, 2019 the City of Fayetteville accepted sealed competitive bids for the Morningside Drive waterline replacement project. KAJACS Contractors, Inc. submitted the lowest bid. All bids are shown here:

Crossland Heavy Contractors, Inc.	\$1,769,996.00
Goins Enterprises, Inc.	\$2,190,595.00
<u>KAJACS Contractors, Inc.</u>	<u>\$1,595,000.00</u>
Tri Star Contractors, LLC.	\$1,994,558.84

Funds are available for this project in the Water/Sewer Relocations account. Staff recommends awarding Bid #19-54 and approving a construction contract with KAJACS Contractors, Inc. in the amount of **\$1,595,000.00** for construction of approximately 3,300 linear feet of 24-inch diameter water main.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

7. Morningside Drive 24-inch Waterline McClelland Engineering Amendment No. 3 – Construction-Phase Services

Resolution 205-17 permitted the original design work with McClelland Consulting Engineers, Inc. (MCE) for utility relocations along Highway 16 between S. College Ave. and Huntsville Rd. associated with ARDOT roadway improvements. Resolutions 45-18 (amendment 1) and 83-19 (amendment 2) expanded the project scope to include the Morningside Drive 24-inch waterline and allowed for separate project bidding, respectively. On December 19, 2019 the City of Fayetteville accepted sealed competitive bids for the Morningside Drive waterline replacement project. KAJACS Contractors, Inc. submitted the lowest bid of \$1,595,000.00.

Amendment No. 3 will allow MCE to provide construction observation and management services associated with this project, in accordance with engineering observation best practices and state law. This amendment will increase the existing agreement amount by \$125,258.00 for a total not-to-exceed amount of \$317,029.82. Staff recommends the approval of Amendment No. 3 to the Professional Engineering Services Agreement with MCE in an amount not to exceed \$125,258.00 for construction management and observation services associated with the Morningside Drive 24-inch Waterline Replacement Project.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

8. Cost Share Agreement for Ruppel Regional Lift Station

Towne West Capital Partners I, LLC is developing the 30-acre Towne West Subdivision on the west side of S. Ruppel Rd., between N. Alberta St. and W. Tofino Dr. This subdivision must provide a sewer lift station in order to be able to move wastewater towards the existing City sewer system. The location of this lift station is strategically placed so that it can provide capacity for this subdivision, as well as a larger 415-acre basin expected to be developed in the future.

The design and sizing of this system will create a 'regional' solution for the larger 415 acre basin and avoid the need to build multiple smaller lift stations throughout the basin. This is an advantage operationally for the city and keeps long-term operation/maintenance costs to a minimum. This regional lift station will pump directly to the Westside Water Resource

Recovery Facility, avoiding costly re-pumping and capacity consumption were the developer to build a smaller lift station discharging to existing gravity sewers in the vicinity. Resolution 73-19 was passed on March 19th, 2019 expressing the City Council's intent to cost-share for this project, seeing the benefits listed herein.

Staff recommends approval of a cost share agreement with Towne West Capital Partners I, LLC in an amount not to exceed \$2,565,502.54 to pay the cost increase for a regional sewer system over that of a single subdivision system.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

9. Township Water Tank 'Land Swap' Agreement and Tank Preview

The East Service Area Water System Improvements project is in the engineering design phase, and includes the demolition of an aged and undersized water storage tank located north of Township Street at approximately 1044 E. Township St. The tank is located on approximately 1.2 acres of City-owned land, without access to a public street. The tank is accessed through private property, with access easements in place.

To physically construct a new tank, and remove the existing tank, and keep this area of town 'in-service', City staff has negotiated a land swap to obtain a more advantageous property for this future water tank. The new tank will be constructed in a different location so that the old tank can remain in service during construction. Once the new tank is online, the old tank can be demolished.

The City's existing parcel of land has a large wooded area that is inaccessible and unnecessary for future use by the utility and would serve well as a buffer around a home of Mr. Ted Willis at 1060 Township Street. The smaller 0.33-acre area requested by the City is closer to the access drive, and situated strategically for construction of this new tank, while not obstructing the ability for the old tank to be accessed by cranes and large trucks to be taken offline. The City also needs additional Temporary Construction Easements from the homeowner on a separate 0.32-acre area and has agreed to pay \$3,150.00 for use and damages based on nearby appraisals. Due to the amount of damage and disturbances, the City has also agreed to re-pave onsite access and driveways at the end of the project.

Staff recommends approval of a Resolution to convey 0.72 acres of land owned by the City to Ted Willis and to accept 0.33 acres in order to facilitate the removal and reconstruction of the Township water storage tank.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

10. Modification to Cost Share Agreement for Goose Creek Sanitary Sewer

This cost share request was presented at the November Water/Sewer Committee. However, after closer examination the 'low bid' for the work was not realistic and likely would have led to the need for a change order mid-construction. For this reason, the developer has updated the bids and is requesting a larger cost share.

Double Springs Development, LLC is developing the 126-acre Goose Creek Village, Phase 1 subdivision on the west side of Double Springs Rd. in Farmington. They are required to install

an 8-inch sanitary sewer main for the development, but the City of Fayetteville's Wastewater Collection System Master Plan recommends a 15-inch sanitary sewer main in that location.

The developer received three bids for construction with Gene Nicholas, LLC being the lowest bidder. Staff recommends approval of a cost share agreement with Goose Creek Development, LLC in an amount not to exceed \$72,976.00 to pay the difference in upsizing the sewer line from 8-inch to 15-inch diameter, and approval of a 20% project contingency in the amount of \$14,595.20. The previous request was for a city contribution of \$41,967.00.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

11. Maintenance Agreement with Watershed Conservation Resource Center – Task Order #5 for 2020.

This Task Order #5 pertains to stream restoration projects and associated services with the Watershed Conservation Resource Center (WCRC) for maintaining and tending to stream and river restoration projects that were implemented using a combination of Utilities Department and grant-based funds and provide assistance for planning future restoration projects.

Specifically, this project consists of ongoing maintenance of two riverbanks on the White River, one at the Noland Wastewater Treatment Plant and another at the bio-solids application. Additionally, maintenance preventing erosion will be performed at a restoration site at Sweetbriar Park that protects a 36-inch pressurized water main and adjacent park property from erosion will

The City also intends on removing the Pump Station Dam in the future. Pre-implementation planning and coordination will be required in order to develop a comprehensive plan for removing the dam and restoring the river both upstream and downstream of the dam. This agreement will provide funding to allow the WCRC to utilize their expertise to assist with the planning process.

WCRC will perform the above-referenced Scope of Services amounts not to exceed \$60,000, with a contingency amount of \$9,000 for this agreement.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

12. Benson Water Tank Land Swap & Project Update

In July 2019 the City Council approved a land swap negotiated agreement between the City and Dustin Davis to allow the new Benson Mountain water tank to be constructed, and the old tank demolished. This negotiation was based on an appraisal done in January 2019. A property closing was pending other nearby easements, and Mr. Davis asked to cancel the agreement and begin new negotiations in 2020 due to the age of the appraisal. A new appraisal is being ordered at this time.

The tank itself is not the most time-sensitive portion of this project, but rather the aging pump station and linework that feeds the tank. For this reason, as negotiations delay with Mr. Davis, Staff intends to package all non-tank aspects of the project for bidding separate

from the tank. In speaking with the design consultants, this may in fact give the city more competitive pricing by reducing large-trade subcontracting.

INFORMATION ONLY

13. Purchase of Aeration Basin Gates at Noland WRRF

On June 18th, 2019, Fayetteville City Council approved Resolution 142-19, an engineering services contract with Jacobs Engineering to design the replacement of two large aeration-basin gates located under a reinforced concrete slab at the Noland WRRF. These gates are original to the aeration facility, are inaccessible, and are leaking. Replacement is necessary so that the plant may remain fully operational and have the ability to isolate each of the two aeration basin treatment trains.

The labor for this project will be publicly bid at a later date, to coincide with lower-flow operations at the WRRF. The gates require a long fabrication lead-time and will be purchased directly by the city in advance and stored onsite. Bids for the gate fabrication were opened on December 17th, 2019 with Haynes Pump and Process, LLC submitting a low-bid of \$32,150.00. Taxes are estimated at \$3,134.63 for a total of \$35,284.63.

Staff recommends purchase of two (2) sealing slide gates for the aeration basin at the Noland Water Resource Recovery Facility from Haynes Pump and Process, LLC.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

14. Capital Projects Update

Discussion of current capital projects in the design state or underway.

15. Overview of WWTP Monthly Report

Discussion of November's Monthly WWTP Report

PRESENTATIONS

Northwest Arkansas Land Trust – Westside Prairie

ATTACHMENTS

Cured-In-Place Pipe Contract
Noland WRRF Electrical Components
NWA Land Trust Agreement
Gregg – Fulbright Engineering Services Agreement
Gregg – Fulbright Exhibit
Manhole Rehabilitation Bid Award
Morningside 24-inch Water Line
Morningside Construction Phase Services
Ripple Road Lift Station Cost Share
Township Water Tank Land Swap
Goose Creek Cost Share Modification
WCRC Task Order No. 5
Benson Water Tank Land Swap
Noland WRRF Aeration Gates

Capital Projects Status
WRRF November 2019 Monthly Report

ADJOURN

Next Water, Sewer, Solid Waste Committee meets on
Tuesday, February 11th, 2020, 5:30 p.m., Room 326.