# REVISED

NOTICE TO ARCHITECTS, ENGINEERS, AND PLANNERS

NOTICE IS HEREBY GIVEN, that the City of Oklahoma City has a project that requires the services of a consulting firm.

In order to be considered, the Consultant must comply with the Resolution establishing procedure for "Selection of Architects, Engineers, and Planners" adopted by the City Council on November 18, 1986, a copy of which may be obtained at http://okc.gov/departments/public-works/engineer-architect-resources/notice-to-a-e from the office of the Public Works Department Director.

**The Project is as follows: WT-0221, Various Hefner Water Treatment Plant Improvements**

Estimated Cost: $12,000,000

**Scope of work:** The engineer will provide a report that discusses and prioritizes these projects: high service pump station VFD HVAC improvements, carbon dioxide system improvements, plant water loop assessment and repair/replacement, filter hall improvements, control room rehabilitation, laboratory facility improvements, administration/filter building and operations control tower improvements. The contract may be amended for final plans and specifications.

A question and answer meeting will be held from 2:00 to 3:00 pm on August 9, 2018 at 420 W. Main Street, Suite 500, Conference Room A. Please address your questions at the meeting. The Utilities Department contact is Larry Hare at (405) 297-3681.

As a part of your Letter of Interest, provide your understanding of the project and your expertise and experience on similar projects.

Refer to the basic contract located on http://okc.gov/departments/public-works/engineer-architect-resources/notice-to-a-e . All contracts with the City or its related Trusts use this contract. Please review the contract to ensure insurance and indemnity requirements will be met.

***Please include a 254 Form with your Letter of Interest.***

Time Schedule for the above project: Preliminary Report required within one hundred twenty (120) days of the issuance of the Work Order. Last date for submitting Letter of Interest **(two copies of letter and all attachments and an electronic copy, provided on a CD or flash drive)** to the Public Works Department Director, 420 W. Main Street, Suite 700, Oklahoma City, OK 73102: prior to 5:00 p.m. August 27, 2018. Emailed submittals are not being accepted at this time.

Eric J. Wenger, P.E., Director
Public Works/City Engineer

The City of
**OKLAHOMA CITY**
UTILITIES DEPARTMENT

**June 25, 2018**

**Project Title:** Various Hefner WTP Improvements

**Project Location:** Hefner Water Treatment Plant

**Project Number:** WT-0221

**Estimated Project Cost:** $12,000,000

**Background:** OCWUT operates and maintains the Hefner Water Treatment Plant to provide drinking water to its citizens and wholesale customers. The Hefner Water Treatment Plant operates continually and over time has developed the need for system improvements related to age and design life limitations.

**Project Intent:** Several items are included in the scope of this project. The Engineer will provide a report that discusses and prioritizes the projects discussed below:

**High Service Pump Station VFD HVAC Improvements:**
The existing HVAC systems at the high service pump station (HSPS) consist of roof-mounted fans that draw air from lower-level louvers to cool the pump motors. The roof-mounted fan system is not sufficient to provide cooling required for the variable frequency drives (VFD) during hot summer months and causes them to trip off. The Engineer will evaluate the HVAC needs for the VFDs and recommend necessary improvements for easier operation and maintenance. The Engineer will also evaluate the existing fan system for the pumps and recommend improvements.

**Carbon Dioxide System Improvements:**
The existing carbon dioxide ($CO_2$) feed system utilizes water drawn from the downstream end of the recarbonation channels as source water for the carbon dioxide system. This water source is causing significant maintenance issues through plugging of valves, strainers, sample lines, etc. The Engineer is to establish a new source of water for use in the recarbonation process from either the filter effluent flumes or from the existing washwater system. In either case, the $CO_2$ system must draw water prior to any chlorine or ammonia feed source. The existing feed water system will be used as a back-up system to provided redundancy.

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**Plant Water Loop Assessment and Repair/Replacement**

The WTP has a 12-inch cast iron / ductile iron water line that loops around the whole plant. This line provides water for various treatment process. The line is experiencing multiple breaks and interrupting treatment processes. The Engineer will assess and recommend options to either repair or replace the 12-inch plant loop water line.

**Filter Hall Improvements**

The existing administration/filter building has two filter halls containing ten filters: four filters on the south end of the building and six filters on the north end. The filters are operated by free-standing control consoles within the filter halls. The consoles are being corroded by the high humidity created by the filters. The Engineer is to evaluate and recommend ways to reduce the humidity in the filter halls and whether replacement of the filter operational consoles is warranted. Furthermore, the Engineer will evaluate and recommend replacement of the windows in the filter halls.

**Control Room Rehabilitation**

The control room is in the operations control tower is centrally located within the plant site. The existing control room needs rehabilitation in the way of lighting and flooring. Engineer is to evaluate the entire control room and provide recommendations for rehabilitation.

**Laboratory Facility Improvements**

The Hefner laboratory provides water and wastewater quality testing services for the City's water and wastewater treatment plants, including the water distribution and wastewater collection systems. The Engineer will assess and provide recommendations to update and upgrade the laboratory facilities to better function and maintain its certifications.

**Administration/Filter Building and Operations Control Tower Improvements**

Evaluate and recommend improvements to upgrade and update the interior and exterior of the facility, repair failing components, and meet current code requirements.

**Proposal Instructions:** Upon public advertisement, interested consulting firms will have four (4) weeks to prepare general qualification proposal materials. During this stage of the general qualifications material development, OCWUT staff will hold a question and answer session 7 days prior to the due date regarding this project. Three firms will be identified for a set interview date four (4) weeks in advance of said event. During this second four (4) week period the three identified firms may engage OCWUT staff in individual meetings to gain further project specific knowledge in advance of the interview session.