

# **CITY OF PLATTEVILLE**

## Well 4 Rehabilitation/Replacement Request for Proposals 10-17



City of Platteville  
75 North Bonson Street  
Platteville, WI 53818

March 2017

## **I. General Community Information**

The City of Platteville is a growing retail, education, and service center in Grant County in southwestern Wisconsin. The city has an estimated population of 12,824 and is expected to grow significantly in the next 7 to 10 years.

Growth in the city is being spurred by the expansion of the University of Wisconsin-Platteville campus and the upgrade of Highway 151 to a 4-lane expressway past the community.

## **II. General Information**

The City of Platteville has 3 wells designated Well 3 on Valley Road, Well 4 on Camp Street and Well 5 in the Industry Park. Well 4 was constructed in 1968. The well casing has grouted lift holes where the grout has failed. When the pumping level goes below the open lift holes, it allows water from the rock formation to cascade into the well causing air to be entrained in the water. When the air entrained water is pumped to the surface, it causes mechanical problems with the pumps, air hammer in the system and water aesthetic issue. The well has been rehabilitated once to try to improve the specific yield of the well. It was hoped that improving the yield would reduce the drawdown such that the water level does not fall below the open lift holes. The rehabilitation worked for a short time only (1 – 2 months), but then the specific yield dropped causing the air entrainment.

We have looked at many options including additional well rehabilitation techniques to increase specific yield. There are no guarantees that this would work for any significant period of time. There were options to attempt to pressure grout the lift holes, or isolate that portion of the well with packers to eliminate the air getting into the water. The only two options that seem reasonable would be to pressure grout and re-drill the casing in place, or drill a new well next to the existing well structure and re-use much of the piping, electrical and mechanical systems in the well house.

Evaluations suggest that to pressure grout and re-drill the casing, it would be necessary to remove a large portion of the above ground structure, drill the well, then replace the structure. Evaluations suggest that the Wisconsin Department of Natural Resources (WDNR) will allow what is commonly called a pitless adapter to have a small footprint for a new well a short distance from the current well and well house. The pitless adapter would be relatively small and there would be underground piping from the new well into the current well house. The City could then use the existing electrical and mechanical systems in the well house for the new well.

### **III. Specific Information**

The City of Platteville wants to hire a firm to do the following:

1. Perform a rapid evaluation of alternatives with construction and design cost estimates and estimated lifespan of the rehabilitation/replacement alternative. (May 2017)
2. Perform necessary design for the chosen alternative, assist in gaining regulatory approvals from State agencies, develop bid documents – plans & specifications. Regulatory approvals include, but are not limited to a Well Siting Evaluation and updating the existing City Wellhead Protection Plan for a potential new well.

### **IV. Project Timeline**

The city anticipates selecting a firm in April 2017. The submissions will be reviewed in early April and we anticipate interviewing a shortlist of up to 3 firms April 5 - 7 with selection by the Water & Sewer Commission on April 10, 2017. Studies should be complete in May. We hope to approve a rehabilitation/replacement method and proceed with design shortly thereafter. We hope to begin work in fall 2017 or sooner, depending on regulatory approvals and contractor.

### **IV. Proposal Requirements and Evaluation Criteria**

#### **Submittal Format:**

Proposals should be organized in a manner that allows for complete review of the elements. Submittals should be submitted or delivered by 5:00 p.m. on Monday April 3, 2017 to the City of Platteville, Attn: Director of Public Works, 75 N. Bonson Street, Platteville, WI 53818.

The proposal should be labeled “10-17 Well 4 Rehabilitation/Replacement” and consist of the following elements:

1. One original copy of the proposal.
2. One electronic version.

#### **Criteria:**

In a concise manner, consultants must submit proposals, which, at a minimum, include the following:

1. Firm name, address, telephone, fax number and e-mail of the Contact Person.
2. Brief history of the firm – please limit to one page.
3. A one page statement of your interest, qualifications and familiarity with Platteville’s facilities, infrastructure and geography.
4. Identification of key personnel to be assigned to various services, including outside consultants. Please provide an organization chart with the roles & responsibilities of each identified person with resumes of key personnel.
5. Indicate the location of the office from where specific services will be provided.

6. List of successful projects similar to the ones requested in the RFP with contact information.
  - a. Provide a list of successful well rehabilitation projects in the last 5 years.
  - b. Provide a list of successful well construction projects in the last 5 years.
  - c. Provide a list of any successful use of a “pitless adapter” for municipal ground water supply.

## **V. Selection Process**

The City of Platteville will evaluate the proposals using the following criteria:

Firm History and resource capability to perform required services

Evaluation of assigned personnel

Familiarity with local area geography and facilities

Ability to relate to project requirements

Analysis of subjective statements

Reference Check

Engineering Experience: See Criteria 6 a. – c.

Cost – Include in a separate envelope or in a separate file for the electronic version your proposed engineering costs.

- Evaluation of alternatives
- Design and regulatory approvals for chosen alternative – provide estimate for pressure grouting and re-drilling the casing and using a pitless adapter on a new well within 200 feet of the current well. Regulatory approvals include but are not limited to a Well Siting Evaluation and updating the current City Wellhead Protection Plan for a potential new well.
- Bidding phase to include production of plans and specs, conducting bids and assisting with analysis of bidders. If the firm recommends a pre-bid meeting with potential bidders, include costs for engineering support for the meeting.
- Construction Phase to include, but are not limited to resident project representatives, answering requests for information by the bidders/selected contractor, review pay applications, certifying substantial completion, completing final pay applications and providing as-built information and operation manuals to the City as needed. Assume 50% on site resident project representative time (average of 20 hours per week) for the project duration.

## **VI. Contact Information**

It is anticipated that a recommendation regarding the selection of a firm will be completed by the City of Platteville in April 2017.

Questions regarding this proposal can be directed to:

Howard B. Crofoot, P.E.  
Director of Public Works  
City of Platteville  
75 N. Bonson Street, P.O. Box 780  
Platteville, WI 53818  
608-348-9741 x 2240 [crofooth@platteville.org](mailto:crofooth@platteville.org)

## **VII. Additional Information**

The City of Platteville reserves the right to reject any and all proposals for any reason at its sole discretion, to negotiate the terms and conditions of the eventual contract with the company awarded the project, and to impose additional conditions as necessary.

The contents of this packet are for informational purposes only and the representations made herein are without warranty. Prospective bidders should rely exclusively on their own investigations and analysis.

The City of Platteville will honor confidentiality requests to the extent possible. If you feel certain aspects of your proposal are proprietary in nature, please indicate so.

Thank you for your consideration and interest in Platteville.