City of Orange

Legislation Text

File #: 21-0361, **Version:** 1

TO: **Honorable Mayor and Members of the City Council**

THRU: **Rick Otto, City Manager**

FROM: **Christopher Cash, Public Works Director**

1. SUBJECT

Approval of plans and specifications for Well 29 Drilling Project (W-709) and authorization to advertise Bid No. 21-22.04.

2. SUMMARY

Plans and specifications have been completed for Well 29 Drilling Project. The project is ready to be advertised for bids. The engineering cost estimate including 10% contingencies is $2,300,000.

3. RECOMMENDED ACTION

Approve the plans and specifications and authorize advertising for bids.

4. FISCAL IMPACT

The total expenditure for this project will be funded in Well 29 Construction (18120) through Water Fund (600).

5. STRATEGIC PLAN GOALS

Goal 1: Provide for a safe community

b: Provide and maintain infrastructure necessary to ensure the safety of the public.

Goal 4: Provide outstanding public service

b: Provide facilities and services to meet customer expectations.

6. DISCUSSION AND BACKGROUND

Well 29 will be located at the corner of Struck Ave. and Katella Ave. on the same site as the existing Well 8. Well 8‘s production has been decreased over recent years and shown signs that it has reached the end of its service life. In addition, the Per and Polyfluoralkyl substances (PFAS) levels at Well 8 exceeds the regulatory limits causing the well to be removed from service since 2018. The Public Works Department Water Division plans to demolish the existing Well 8 to make room for the new Well 29 and an Ion Exchange (IX) treatment system. Well 29 is expected to produce approximately 3,000 gallons per minute (gpm) in flow capacity.

The proposed Well 29 project will be constructed in two phases. Phase I will include drilling the well, and Phase II will consist of equipping the well and installing the treatment system. Well drilling phase is expected to begin in the Fall of 2021 and to be completed within 120 calendar days. Well

equipping will begin in the spring of 2022.

The Scope of Work for phase I includes the demolition of existing Well 8, pilot hole drilling, installation of approximately 1,300 feet of 20-inch stainless steel casing and screen, installation of accessory tubing, gravel pack, sanitary seal, conduct hydrogeology testing, well development, and disinfection. The drilling operations for the project will last approximately 30 days and require some 24-hour operational working periods. To mitigate potential noise possibly caused by the drilling operation, the contractor will install 24-foot high sound attenuation walls around the project site for the duration of the project. Prior to the project starting, staff will conduct outreach to the neighborhood that could be affected by the construction. The cost estimate for phase I of the project is $2,300,000.

Well 29 will be partially funded by the Santa Ana River Conservation Conjunctive Use Program (SARCUP) initiated by the Orange County Water District (OCWD). The City is eligible to receive up to a maximum reimbursement of $1,575,140 in grant funding for well construction and equipping cost. Additionally, the design and construction cost of the IX treatment system will be reimbursed by OCWD via its PFAS Treatment Systems Program.

Upon the completion of the well drilling phase, a separate staff report will be prepared to advertise for phase 2 of the project, consisting of the construction of all above ground piping, buildings, and pumping equipment, as well as the construction of the IX treatment system.

The proposed project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) under CEQA guidelines Section 15301 “Existing Facilities” Class 1 (c). The CEQA Notice of Exemption will be filed with the County Recorder’s Office upon Council’s approval of the plans and specifications.

7. ATTACHMENTS

- Location Map

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