



City of Orange

Legislation Details (With Text)

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Title: Approval of plans and specifications for Reservoir 4 Exterior Cathodic Protection (CP) System Installation Project and authorization to advertise Bid No. 21-22.01.

Sponsors:

Indexes:

Code sections:

Attachments: 1. Staff Report, 2. Location Map

Date	Ver.	Action By	Action	Result
7/13/2021	1	City Council	Approved	Pass

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 Reservoir 4 Exterior Cathodic Protection (CP) System Installation Project and authorization to advertise Bid No. 21-22.01.

2. SUMMARY

Plans and specifications have been completed for Reservoir 4 Exterior Cathodic Protection (CP) System Installation Project. The project is ready to be advertised for bids. The total estimated construction cost including 10% for contingencies is \$165,000.

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 the Exterior CP Systems (18301) 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

Constructed in 1968, Reservoir 4 has been used to store and provide drinking water to the customers residing within Pressure Zone 1 of the City's water distribution system. This partially buried, five-million gallon reservoir was constructed as a steel tank, which required complete internal and external cathodic protection systems (CP) to prevent corrosion to the metal shell and structural elements. Continuous monitoring and maintenance of the CP systems is necessary to prevent corrosion and preserve the tank structure. Recent annual monitoring report recommends the replacement of the tank's existing exterior CP system and installation of a new Impressed Current Cathodic Protection (ICCP) in accordance with the current codes and industry standards. The new CP system has a minimum service life of 20 years. Plans and technical specifications have been completed for the replacement of the exterior CP for Reservoir 4.

The scope of work for this project will include relocation of the existing internal CP system rectifier, installation of a new exterior ICCP system, anode bed, rectifier, underground electrical conduits, reference electrodes, and repairing disturb surface.

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