

DEPARTMENT
OF UTILITIES

ENGINEERING
SERVICES DIVISION

CITY OF SACRAMENTO
CALIFORNIA

May 18, 2005

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City Council
Sacramento, California

Honorable Members in Session:

**SUBJECT: HOWE AVENUE 54-INCH WATER TRANSMISSION MAIN PROJECT (PN: Z156):
APPROVAL OF CONTRACT CHANGE ORDER NO. 4 WITH C. R. FEDRICK, INC.
FOR \$337,646 AND RESTORATION OF CITY MANAGER AUTHORITY**

LOCATION AND COUNCIL DISTRICT:

The Howe Avenue 54-inch Water Transmission Main (the "Project") starts at the E. A. Fairbairn Water Treatment Plant, crosses under the American River to University Avenue, and proceeds north on University to the intersection of University and Howe Avenues. The Project is located in Council District 3 (see attached map).

RECOMMENDATION:

Staff recommends that the City Council authorize and direct the City Manager to:

- Execute Change Order No. 4 with C. R. Fedrick, Inc (Contract #2003-183) for \$337,646.
- Restore the City Manager's authority to issue change orders on this contract.

CONTACT PERSON: Dave Brent, Engineering Manager, 808-1420
Bill Zehnder, Supervising Engineer, 808-1411

FOR COUNCIL MEETING OF: June 7, 2005

SUMMARY:

City Council awarded a construction contract for the Howe Avenue 54-inch Transmission Main Project to C. R. Fedrick, Inc. on December 16, 2003, for \$9,290,000. Change Order No. 4 is a coordinated effort between the Department of Utilities and the Department of Transportation to combine resources and minimize construction impacts to the community by combining an



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asphaltic concrete overlay with the pipeline trench restoration in University Avenue.

The sum of previous Change Orders on this project (Change Order No.1 through Change Order No.3) is \$59,583.

COMMITTEE/COMMISSION ACTION: None.

BACKGROUND:

The Howe Avenue 54-inch Water Transmission Main is a portion of a large diameter water main that eventually will connect the E. A. Fairbairn Water Treatment Plant and the Sacramento River Water Treatment Plant. When all phases of the large diameter pipe are constructed there will be a cross-tie between the City's two surface water treatment plants that will enable the City to better serve areas north of the American River, reduce groundwater overdraft and increase the reliability of the water transmission system. The Project supports the City's commitment to the Water Forum Agreement by installing facilities necessary to increase the conjunctive use of surface water and groundwater, and it will serve as a major component of the conjunctive use strategies of the Regional Water Authority (RWA). When completed, the Project will enhance conjunctive management of surface water and groundwater, allowing water providers the operational flexibility of recharging ground water aquifers during wetter years and using less surface water during drier years.

This project consisting of approximately 6,500 feet of 54-inch diameter water transmission pipe is nearing completion. Approximately 1,500 feet of the total length has been tunneled under the American River at a depth greater than 60 feet. The remaining 5,000 feet is aligned in University Avenue and was constructed utilizing conventional trenching methods.

The resurfacing of University Avenue along the pipeline limits was coordinated between the Department of Utilities (DOU) and the Department of Transportation (DOT). Per design, this pipeline project provided for a 12 foot wide overlay (approximately one lane width) over the trench in University Avenue as mitigation for trenching in the street. By combining resources with DOT, the City will minimize construction impacts to the area while providing a complete asphaltic concrete overlay. This partnering project was established through ongoing coordination efforts between DOT and DOU to continue to deliver underground work ahead of street resurfacing to help eliminate trenching into new street surfaces.

Three previous change orders have been executed for the Howe Avenue 54-inch Transmission Main Project. They are as follows:

- Change Order No. 1 increased the contract by \$18,039 due to a change in design. The majority of change order cost was due to the large concentration of cobbles in the material excavated from the microtunnel drive shaft. This prevented the material from being used on site as planned, and the Contractor was forced to haul it off-site.
- Change Order No. 2 had a zero net change on the contract value but provided guidance for

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the Contractor and addressed concerns of private property owners when temporary construction easements procured by the City expired.

- Change Order No. 3 increased the contract by \$41,544 due to a change in design. The majority of the Change Order cost was due to moving the microtunnel drive shaft closer to the levee to avoid construction conflicts with the water treatment plant expansion. As a condition for moving the shaft, the permitting agency required subsurface compaction grouting.

To date, the sum of Change Orders for this project including Change Order No. 4 is \$397,229 or 4.3% of the original construction contract.

FINANCIAL CONSIDERATIONS:

Change Order No. 4 will be reimbursed to the project by the Department of Transportation from the following funding sources:

Street Repair Partnering (202-500-RH01-4820) \$200,000
Trench Cut Fee Program (211-500-RK21-4820) \$137,646

Because there will not be additional costs to the project, there are sufficient funds to execute the Change Order and complete the project.

ENVIRONMENTAL CONSIDERATIONS:

The Environmental Services Manager determined that the Howe Avenue Transmission Main Project (CIP# ZI56), as proposed, will not have a significant impact to the environment, and an Initial Study and Mitigated Negative Declaration were prepared and circulated for public review in compliance with the California Environmental Quality Act (CEQA). The City Council adopted the Mitigated Negative Declaration and the Mitigated Reporting Plan on June 10, 2003, by Resolution No. 2003-372.

POLICY CONSIDERATIONS:

The Howe Avenue 54-inch Water Transmission Main Project supports the Water Forum Agreement and the RWA's conjunctive use program. This report's recommendation is consistent with the City's Strategic Plan Goals to achieve sustainability and livability and to improve and expand public safety.

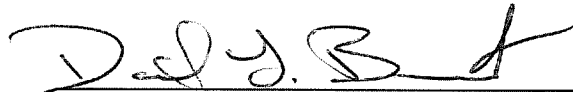
This action is in conformance with City Code Title 3, Chapter 3.60.210 which governs contract change orders.

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ESBD CONSIDERATIONS:


The original construction contract for the Project has a participation goal of 12% for emerging and small business enterprises. This was set below the City's standard 20% goal because approximately one-half of the contract is associated with tunneling under the American River, and the tunneling operation requires a specialty contractor of which there are no known ESBEs. The low bidder, C. R. Fedrick, exceeded the contract's ESBE goal with a participation level of 21.3%. One hundred percent of the additional work (\$337,646) will be performed by an SBE subcontractor.

Respectfully submitted,




David L. Brent
Engineering Manager

RECOMMENDATION APPROVED:



Robert P. Thomas
City Manager

APPROVED:



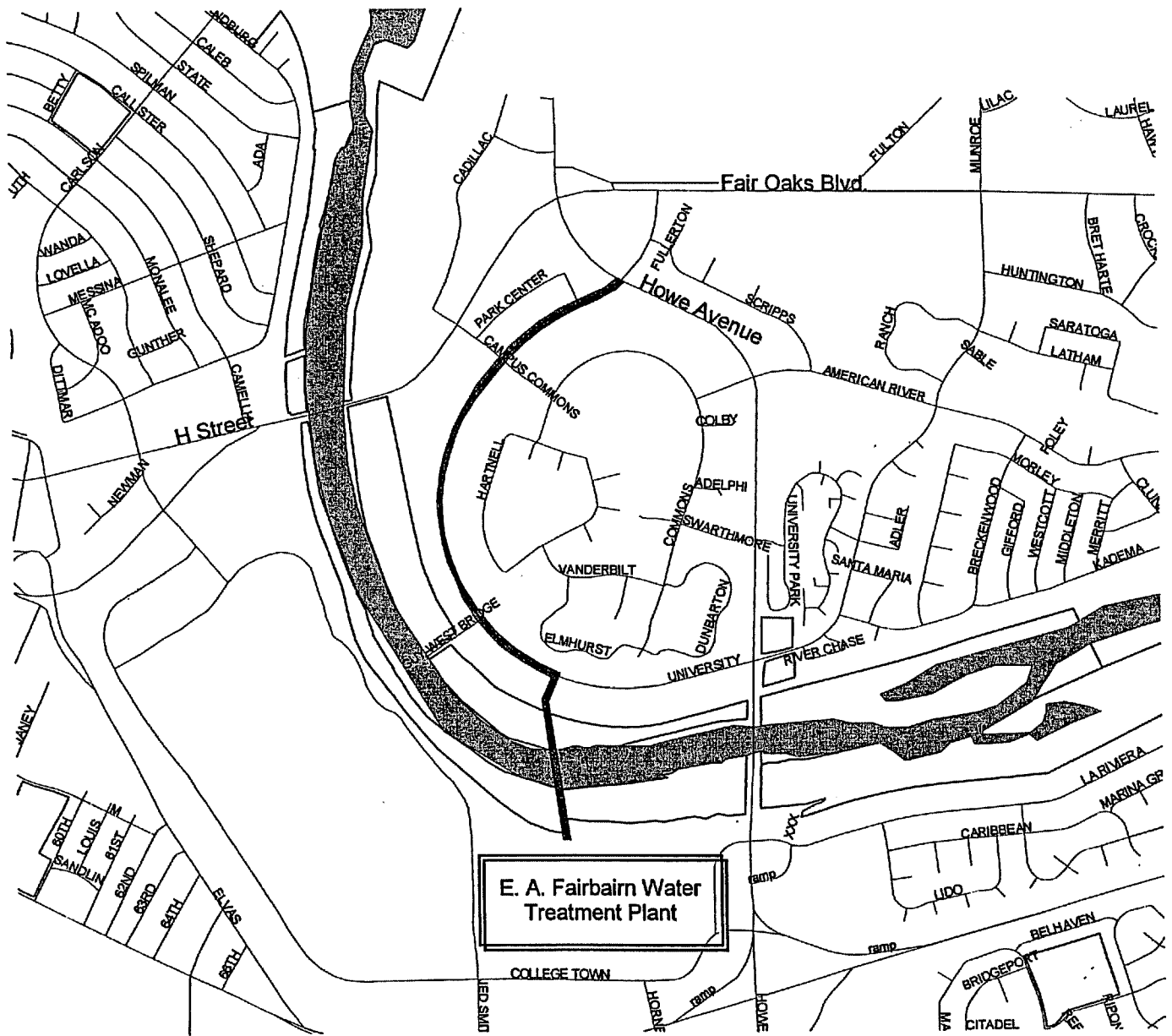
Gary A. Reents
Director of Utilities

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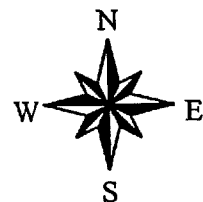
- 1) Attachment 1 - page 5
- 2) Resolution - page 6

Attachment 1

Howe Avenue Water Transmission Main Construction PN: Z156



Map Prepared By
City of Sacramento
Department of Utilities
November 2001



RESOLUTION NO.

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

RESOLUTION APPROVING CONTRACT CHANGE ORDER NO. 4 IN THE AMOUNT OF \$337,646 WITH C. R. FEDRICK, INC FOR THE HOWE AVENUE 54-INCH WATER TRANSMISSION MAIN PROJECT (PN: ZI56) AND RESTORATION OF CITY MANAGER AUTHORITY

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO THAT:

- 1. The City Manager and City Clerk are hereby authorized to sign and execute Change Order No. 4 with C. R. Fedrick, Inc. for an amount of \$337,646 for the Howe Avenue 54-inch Transmission Main (ZI56).
- 2. The City Manager’s authority to issue change orders on this contract is restored.

MAYOR

ATTEST:

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____