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DEPARTMENT
OF UTILITIES

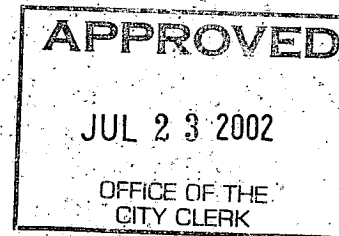
ENGINEERING
SERVICES DIVISION

CITY OF SACRAMENTO
CALIFORNIA

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July 3, 2002



City Council
Sacramento, California

Honorable Members in Session:

**SUBJECT: SACRAMENTO RIVER WATER TREATMENT PLANT REPLACEMENT
INTAKE PROJECT (ZF57) - APPROVAL OF CHANGE ORDER NO. 11**

LOCATION AND COUNCIL DISTRICT:

Sacramento River Water Treatment Plant (City Wide)

RECOMMENDATION:

Staff recommends that the City Council approve Contract Change Order No. 11 with Balfour Beatty Construction, Inc. (Contract No. CO 2001-012) for \$189,746.

CONTACT PERSON: Garv A. Reents, Engineering Services Manager, 264-1433
Gary E. Gosse, Supervising Engineer, 264-1426

FOR COUNCIL MEETING OF: July 23, 2002

SUMMARY:

The City Council awarded a contract to Balfour Beatty Construction, Inc. on January 30, 2001 for \$29,218,000. Change Order No. 1.1 is for the downstream removal and redeposit of approximately 2700 cubic yards of sandy streambed material into a scour hole near the upstream end of the cofferdam for the Sacramento River Water Treatment Plant Replacement Intake. The work will increase the contract amount of the project by \$189,746.

COMMITTEE / COMMISSION ACTION: None



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Making a Difference in Your Neighborhood

City Council
July 3, 2002
Approval of Change Order No. 11

BACKGROUND:

A new intake pump station with upgraded fish screens for the Sacramento River Water Treatment Plant (WTP) is currently under construction by Balfour Beatty Construction, Inc. The new intake is being constructed within a sheetpile cofferdam.

During the 2001 summer construction period, as part of the contract work on the replacement intake, underwater excavation and placement of streambed stabilization backfill material was performed along a major portion of the west (river) side of the cofferdam. The need for a temporary work trestle to extend along the full length of the intake cofferdam during the initial phase of the project prevented the placement of the streambed backfill material along the east (levee) side of the cofferdam.

High Sacramento River flows in January 2002 formed a moderately deep scour hole at the upstream end of the sheetpile cofferdam. Additional streambed scour (underwater erosion) occurred along the east (levee) side of the cofferdam. Much of the material from this scour hole was deposited downstream of the cofferdam, forming a shallow sandbar. This Contract Change Order covers the extra work involved in removing the river bottom material from the downstream deposits and using the material to fill in the scoured streambed area adjacent to the cofferdam to a foundation level of minus 12.5 feet in elevation.

The project design team determined that the scour damage caused by the higher Sacramento River flows during the 2001 / 2002 rain season should be repaired as a matter of priority. The work of placing the remaining contract streambed backfill material is also to be performed this summer in advance of any higher fall / winter 2002-2003 flows.

Completion of the underwater excavation work and placement of contract bedding and streambed backfill material during this summer construction period will stabilize and armor the Sacramento River streambed around the perimeter of the new intake. This is a prerequisite before the individual sheetpiles forming the cofferdam may be cutoff and removed.

FINANCIAL CONSIDERATIONS:

The total estimated construction cost including inspection, construction management support, and contingency for construction of the Sacramento River Water Treatment Plant Replacement Project (ZF57) is \$36,259,317. Adequate funds are available to cover the \$189,746 cost of Change Order No. 11 and to complete the project.

ENVIRONMENTAL CONSIDERATIONS:

An environmental assessment/initial study for the Intake Fish Screen Replacement Project was prepared and circulated for public review consistent with the California Environmental Quality Act and the National Environmental Policy Act. On June 27, 2000, the City Council adopted the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Plan

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for the Intake Fish Screen Replacement Projects at the Sacramento River and E A Fairbairn Water Treatment Plants.

POLICY CONSIDERATIONS

The Intake Fish Screen Replacement Projects will bring the City into compliance with current standards of the California Department of Fish and Game and the National Marine Fisheries Service. The intake projects when finished, will protect juvenile fish within the American and Sacramento Rivers by greatly reducing the chance for the fish to be drawn into the intakes.

ESBD CONSIDERATIONS

Balfour Beatty Construction, Inc, is providing 8.6 percent ESBD participation which exceeds the five percent goal established for the Sacramento River Water Treatment Plant Replacement Project.

Respectfully submitted,




Gary A. Reents
Engineering Services Manager

RECOMMENDATION APPROVED


Robert P. Thomas
City Manager

APPROVED


James G. Sequeira
Director of Utilities

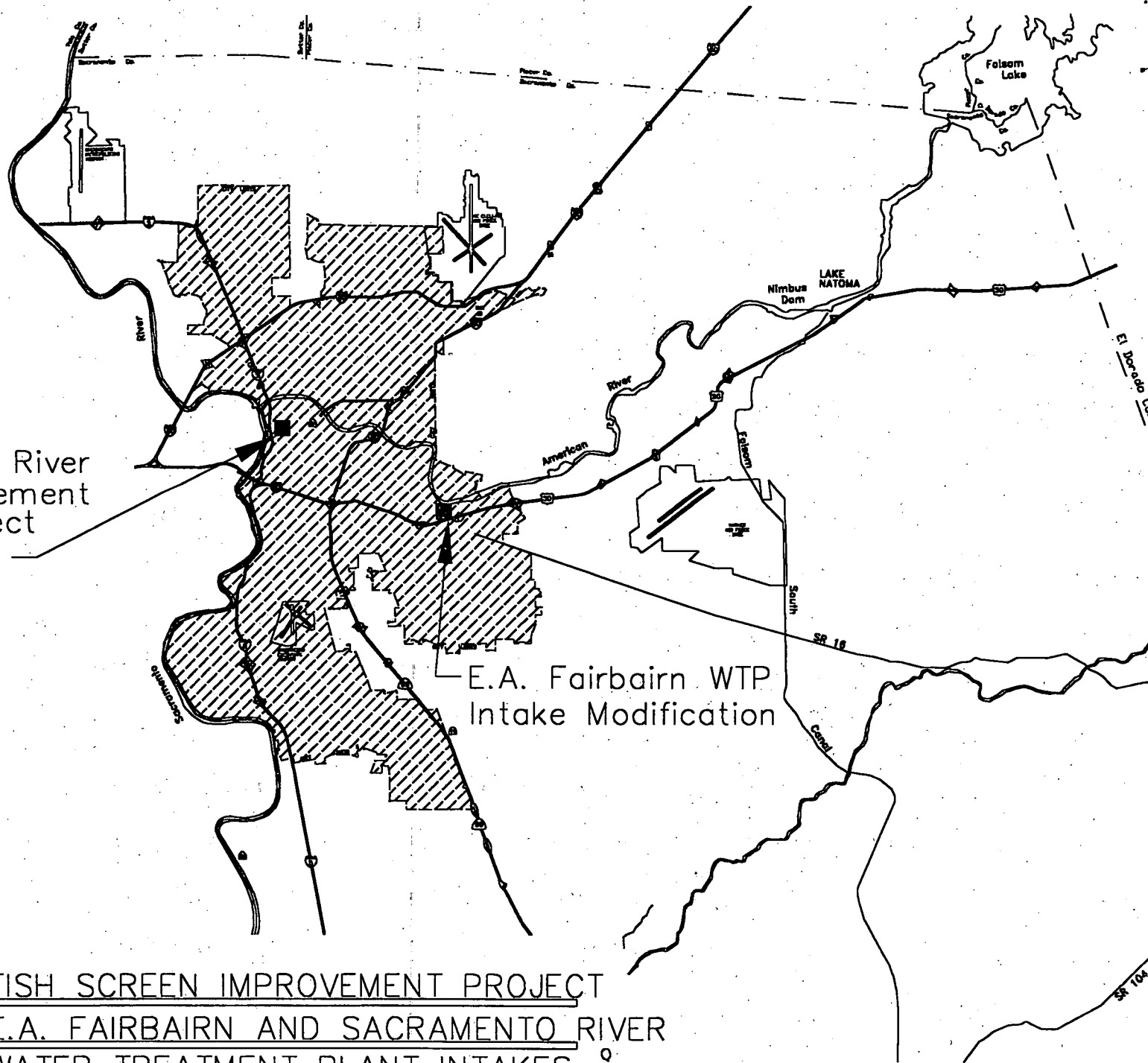


Sacramento River
WTP Replacement
Intake Project
(PN: ZF57)

E.A. Fairbairn WTP
Intake Modification

FISH SCREEN IMPROVEMENT PROJECT
E.A. FAIRBAIRN AND SACRAMENTO RIVER
WATER TREATMENT PLANT INTAKES

September 2000



APPROVED
JUL 23 2002
OFFICE OF THE
CITY CLERK

RESOLUTION NO. 2002-487

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

**RESOLUTION APPROVING CONTRACT CHANGE ORDER NO. 11 FOR
THE SACRAMENTO RIVER WATER TREATMENT PLANT
REPLACEMENT INTAKE PROJECT (ZF57)**

BE IT RESOLVED BY THE SACRAMENTO CITY COUNCIL THAT:

The City Manager and City Clerk are hereby authorized to sign and execute Contract Change Order No. 11 with Balfour Beatty Construction, Inc., in the amount of \$189,746 for the Sacramento River Water Treatment Plant Replacement Project (ZF57).

MAYOR

ATTEST:

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO.: _____

DATE ADOPTED: _____