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APPROVED
BY THE CITY COUNCIL

AUG 12 1997

OFFICE OF THE
CITY CLERK

DEPARTMENT OF
UTILITIES
ENGINEERING SERVICES

CITY OF SACRAMENTO
CALIFORNIA

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July 30, 1997

City Council
Sacramento, California

Honorable Members in Session:

SUBJECT: AMENDMENT OF THE FY98 CAPITAL IMPROVEMENT PROGRAM BY THE CREATION OF THE SUMP 132 FOREBAY BOIL REPAIR PROJECT (PN: WH61) AND APPROPRIATION OF \$150,000 FROM THE POCKET AREA SEWER TRUNK FUND

LOCATION AND COUNCIL DISTRICT:

Sump 132 is located on the east levee of the Sacramento river approximately ¼ mile north of Garcia Bend Park where Pocket Road crosses the drainage canal. See attached map. (Council District 7)

RECOMMENDATION:

Staff recommends that the City Council approve the attached resolution amending the FY98 Capital Improvement Program by creating the Sump 132 Forebay Boil Repair Capital Improvement Project (PN: WH61) and appropriating funds.

CONTACT PERSON: Andy Hunt, Senior Engineer, 433-6620
Gary A. Reents, Engineering Services Manager, 433-6633

FOR COUNCIL MEETING OF: August 12, 1997

SUMMARY

Last January, the City placed geofabric and cobbles on the Sump 132 forebay invert to control several boils which had begun to move material. The repair constricts the channels cross section, limiting the pump station capacity. The City has designed a method of controlling fines migration that also restores the channel to its original condition. With an estimated construction cost of \$92,000, this project will be informally bid. Construction should begin in early September and be completed by October 1, 1997.

City Council
July 30, 1997
Sump 132 Forebay Boil Repair (PN: WH61)

COMMITTEE/COMMISSION ACTION

None.

BACKGROUND INFORMATION

Boils in the forebay of Sump 132 began to move material during the high river flows of January, 1997. To stop the migration of material, the City placed a filter fabric held down by cobbles and gravel over the boil locations. The repair raised the invert of the channel in front of the pump station. The constriction of the cross-sectional area of the channel caused increased velocities and decreased capacity. The increased velocities were sufficient to transport the cobbles and gravel to the pump station where some of the smaller cobbles actually passed through the trash racks and into the pumps. The decreased capacity restricted the supply to the pumps causing cavitation. The current project will remove the emergency repair while constructing a more permanent repair that restores the channel to its original condition.

This project includes developing a check dam and an access ramp, removal of the existing cobbles and geotextile, excavation and transportation of the channel invert material, installation of a geotextile liner and placement of riprap material to lines and grade of the existing invert. While the channel is dewatered, a grouting crew will pressure grout known fractures in the channel lining and probe under the concrete apron at the entrance of the pump station to determine if the boils caused any voids under the structure. Before removing the check dam, the damaged concrete side slopes of the channel will be repaired. Lastly, the access road will be restored to its original condition.

FINANCIAL CONSIDERATIONS

The estimated construction cost for this project is \$92,000. The estimated total project cost, including construction, inspection, and contingency is \$150,000. Staff recommends that the FY98 Capital Improvement Program be amended to add the Sump 132 Forebay Boil Repair project (240-500-WH61-4820), and to appropriate funds from the Pocket Area Trunk Sewer Fund (240-710-7012-4999). As of July 29, 1997, the Pocket Area Trunk Sewer Fund had an unobligated balance available of \$524,000.

ENVIRONMENTAL CONSIDERATIONS

The Planning Services Division, Environmental Section, has reviewed the proposed project and has determined that this project is exempt from the California Environmental Quality Act (CEQA) under § 15301(b) and (d) of the CEQA Guidelines.

City Council
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Sump 132 Forebay Boil Repair (PN: WH61)

POLICY CONSIDERATION

The creation of this capital improvement project is consistent with past City Council direction, particularly with the goals and objectives to provide a safe and reliable drainage system as described in the Utility Infrastructure report dated November 1995.

MBE/WBE

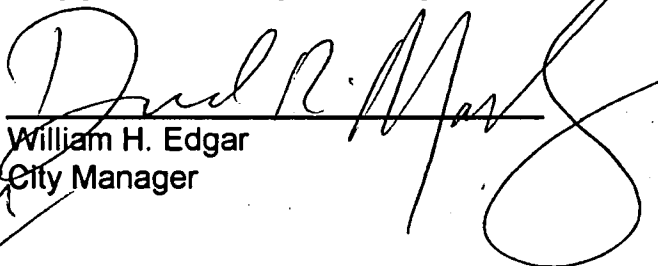
Bidders that exceed the participation goals of 10.57% MBE and 9.5% WBE, as set forth by Resolution No. 93-619, adopted by the City Council on November 2, 1993, shall receive price preferences of 5% when determining the low bidder. The cumulative departmental MBE/WBE participation to date is 13.31% and 21.26% respectively.

Respectfully submitted,



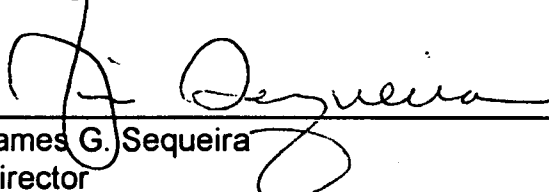
Gary A. Reents
Engineering Services Manager

RECOMMENDATION APPROVED:



William H. Edgar
City Manager

APPROVED:



James G. Sequeira
Director

APPROVED
BY THE CITY COUNCIL

AUG 12 1997

OFFICE OF THE
CITY CLERK

RESOLUTION NO. 97-463

ADOPTED BY THE SACRAMENTO CITY COUNCIL

ON DATE OF _____

RESOLUTION AUTHORIZING AMENDMENT OF THE FY98 CAPITAL IMPROVEMENT PROGRAM BY CREATING THE SUMP 132 FOREBAY BOIL REPAIR PROJECT (PN: WH61) AND APPROPRIATING \$150,000 FOR THE PROJECT

NOW, THEREFORE, BE IT RESOLVED BY THE SACRAMENTO CITY COUNCIL THAT:

The City of Sacramento has determined the need for the Sump 132 Forebay Boil Repair project (hereafter called the "Project"), and desires to include the Project in the City of Sacramento Capital Improvement Program.

The FY98 Capital Improvement Program be amended by creating the Sump 132 Forebay Boil Repair Project (PN: WH61) and appropriating funds as follows:

from Pocket Area Trunk Sewer Fund (240-710-7012-4999)	(\$150,000)
to Sump 132 Forebay boil Repairs (240-500-WH61-4820)	\$150,000

MAYOR

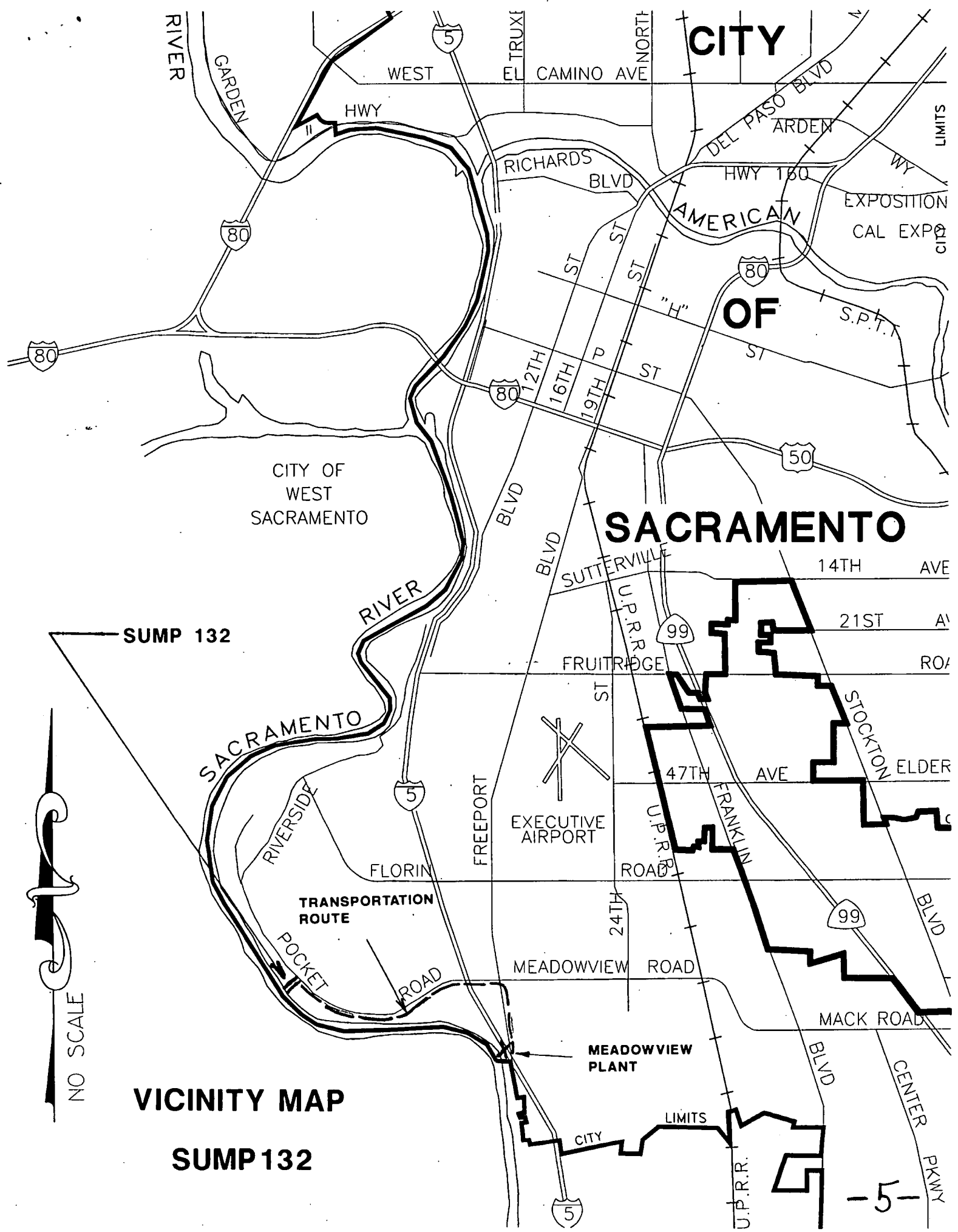
ATTEST:

CITY CLERK

FOR CITY CLERK USE ONLY

RESOLUTION NO. _____

DATE ADOPTED: _____



SUMP 132

NO SCALE

VICINITY MAP

SUMP 132