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DEPARTMENT OF UTILITIES  
ENGINEERING SERVICES DIVISION

CITY OF SACRAMENTO  
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APPROVED  
SEP 23 2003  
OFFICE OF THE CITY CLERK

September 9, 2003

FILED  
SEP 23 2003  
BY THE CITY COUNCIL  
OFFICE OF THE CITY CLERK

City Council  
Sacramento, California

Honorable Members in Session:

**SUBJECT: FREEPORT RESERVOIR AMERICAN FLAG AND SIGNAGE**

**LOCATION AND DISTRICT:** City Wide (All Districts)

**RECOMMENDATION:**

Informational purposes only as requested by Council Members pertaining to the Freeport Reservoir site.

**CONTACT PERSON:** Michael Yee, Plant Services Manager, 264-5594  
Bill Miller, Senior Engineer, 264-0105

**FOR COUNCIL MEETING OF:** September 23, 2003

**SUMMARY:**

At the request of City Council, a preliminary evaluation was made to add an American flag and signage to the Freeport Reservoir welcoming travelers into the City. The evaluation was presented to Council on February 25, 2003. The outcome of that session was to further evaluate the costs and confirm the possibility for the flag installation. This report reflects the cost and confirms the approval of the Federal Aviation Administration (FAA) and acceptable exposure precautions necessary to install and maintain the flag on the top of the reservoir due to radio frequency antenna exposure.

**COMMITTEE/COMMISSION ACTION:** None. Informational purposes only.



CITY OF SACRAMENTO  
DEPARTMENT OF UTILITIES

Making a Difference in Your Neighborhood

**BACKGROUND INFORMATION:**

In December of 2002 the City Council requested that staff research, evaluate, and report back on a suggestion to add signage and an American flag to the Freeport Reservoir. The purpose of this endeavor is to enhance the appearance of the reservoir, show the City's patriotism and to welcome travelers into the City. Following are the options that the Council requested staff to further evaluate. (Reference Exhibit A through C)

A council presentation was made on February 25, 2003, and at that time further directions were given to prepare a more final investigation of the signage and reservoir top flag. After much discussion with the FAA and an outside consultant evaluation of the microwave exposure to maintenance workers on the top of the reservoir, the flag as originally proposed can be installed.

● **Option 1 - "Welcome to Sacramento" - "The City of Trees" Sign**

This option consists of the painting of an artistic sign on the reservoir surface, facing northbound Interstate 5 traffic. The sign would state in three lines "Welcome to Sacramento The City of Trees". As recommended by Council, the lettering for the words "City of Trees" would be green in color with "Welcome to Sacramento" in black. A picture (Exhibit A) is included in this report to show the signage appearance and location. Also included is an aerial photo (Exhibit C) showing the approximate location at which northbound traffic could read the sign. Two types of paint systems have been evaluated. The first method of painting would be a conventional single coat sign paint estimated to cost \$34,000. Maintenance of the sign with this paint system would be scheduled every three to five years. This effort would consist of touching up lettering at a cost of \$7,000. The second paint system would be a three coat two-part clear coated polyurethane-enamel. This system would cost \$52,000. Maintenance would be 15 years and cost of \$5,000.

**Reservoir Signage Estimated Costs**

One Coat System	First Time Cost	\$34,000
	Maintenance (every 3 years)	\$ 7,000
	<b>Maximum 15 year cost</b>	<b>\$69,000</b>
Polyurethane System	First Time Cost	\$52,000
	Maintenance	\$ 5,000
	<b>Maximum 15 year cost</b>	<b>\$57,000</b>

● **Option 2 - United States Flag and Pole on top of the Reservoir**

This option would include the installation of a 50-foot flagpole on the top of the reservoir. The flag dimensions would be 15 feet high and 25 feet wide to match the overall flag height (reservoir and pole). The flag would be made of weather resistant material and would be illuminated during the evening hours so that it can be flown day and night and in all types of weather. A picture (Exhibit A) is included in this report to show the appearance and location. The cost to install the flag, flagpole, and lighting is \$33,000. A break down of the costs are as follows: structural engineering consultant \$7,000 (this is due to the complexity of the reservoir roof structure); flag and flagpole \$7,000; structural modifications to reservoir \$10,000; helicopter crane \$4,000; and lighting \$5,000. Rigging replacement would be expected every three years at a cost of \$1,200. Annual operation and maintenance costs would be \$2,200, including the electric bill for lighting, flag replacement (2 per year), inspection of the flag rigging, and illumination lamp replacement.

**Reservoir Flag Estimated Costs**

Structural Design	\$ 7,000
Flag and Pole (fiberglass)	\$ 7,000
Reservoir Structural Modifications	\$10,000
Helicopter Crane	\$ 4,000
Flag Lighting	\$ 5,000
<b>Total Installation Cost</b>	<b>\$33,000</b>
<b>Average Annual Maintenance</b>	<b>\$ 2,200</b>

**FINANCIAL CONSIDERATIONS:**

No financial obligations are recommended in this report as this project is not proposed to be done at this time.

**ENVIRONMENTAL DETERMINATION:**

This item is for informational purposes only, therefore the California Environmental Quality Act (CEQA) is not applicable. Based upon the option descriptions, it is anticipated that the signage

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Freeport Reservoir American Flag and Signage

and flag display will qualify for categorical exemption under CEQA. However, complete environmental evaluation will be conducted prior to final action on the proposal and from a planning perspective, some public as well as neighborhood feedback would be expected.

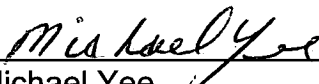
**POLICY CONSIDERATIONS:**

This report's recommendation is consistent with City's Strategic Plan Goals of enhancing and preserving the neighborhoods and supporting the economic vitality of the area.

**ESBD CONSIDERATIONS:**

None. No goods or services being procured at this time.

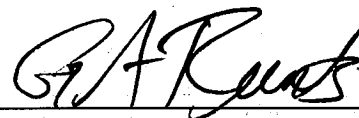
Respectfully submitted,

  
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Michael Yee  
Plant Services Manager

**RECOMMENDATION APPROVED:**

  
\_\_\_\_\_  
Robert P. Thomas  
City Manager

**APPROVED:**

  
\_\_\_\_\_  
Gary A. Reents  
Director of Utilities

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- 3) Exhibit "C" Reservoir model picture showing Southern, Eastern and Northern exposures - page 7



**EXHIBIT B**

PICTURE  
TAKEN  
HERE

Freeport  
Reservoir

RECOGNITION  
OF SIGN  
1/4 MILE



0 200'  
SCALE

**PROPOSED SIGNAGE  
FREEPORT RESERVOIR**

CITY LIMITS



# *Freeport Reservoir Model*

Model courtesy  
AR Sign & Supply

