



Engineering, Operations, & Technology Committee

# Lake Skinner Dam Drainage Control Improvements

Item 7-2

December 9, 2024

## Item 7-2

### Lake Skinner Drainage Control Improvements

#### Subject

Award a \$588,000 contract to Heed Engineering for the construction of drainage control improvements at the Lake Skinner Dam

#### Purpose

Improves the drainage around the base of the dam in compliance with California Division of Safety of Dams (DSOD) requirements

#### Recommendation and Fiscal Impact

Award a construction contract for drainage improvements

Fiscal impact of \$800,000 in capital funds

#### Budgeted

# Location Map



Lake Skinner

# Background



Lake Skinner

Lake Skinner Dam

3-ft-wide, 4,800-ft-long Drainage Channel

# Lake Skinner Drainage Control Improvements

## Background

- Drainage control system is damaged & in need of rehabilitation
  - Constructed in May 1970
  - V-ditch concrete is cracked & displaced at several locations along toe of dam
  - Adjacent access road exhibits signs of erosion
- Final design complete



Existing  
Drainage Control Ditch

# Lake Skinner Drainage Control Improvements

## Alternatives Considered

- Alternative – Perform spot repairs
  - Damage is significant & spot repairs do not provide long-term durability
- Selected Alternative – Replace the entire drainage control system at toe of dam
  - Drainage system is past its design life
  - A new drainage system with reinforced concrete will improve stormwater flow

# Lake Skinner Drainage Control Improvements

## Scope of Work

- Contractor
  - Demolition of the existing drainage system
  - Clearing & grubbing
  - Construction of a 4-foot-wide by 4,800-foot-long drainage channel
  - Grading of adjacent access road
- Metropolitan
  - Construction management & inspection
  - Submittal review & preparation of record drawings
  - Contract administration, environmental support & project management

# Bid Results

## Specifications No. 2078

Bids Received	October 24, 2024
No. of Bidders	5
Lowest Responsible Bidder	Heed Engineering
Low Bid	\$588,000
Range of Other Bids	\$766,000 to \$1,086,226
Engineer's Estimate	\$999,000
SBE Participation*	100%

\*SBE (Small Business Enterprise) minimum participation level set at 25%



# Allocation of Funds

## Lake Skinner Drainage Control Improvements

### Metropolitan Labor

Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	\$ 41,000
Construction Inspection & Support	86,000
Submittals Review, Tech. Support, Record Dwgs.	53,000

### Contracts

Heed Engineering	588,000
Remaining Budget	32,000

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Total \$ 800,000

# Project Schedule



# Board Options

- Option #1  
Award a \$588,000 contract to Heed Engineering for construction of drainage control improvements at the Lake Skinner dam.
- Option #2  
Do not proceed with the project at this time.

# Staff Recommendation

- Option #1

