Engineering, Operations, & Technology Committee

Sepulveda Feeder Pump Stations – Transformer Procurement

Item 8-1

July 8, 2024

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Sepulveda Feeder Pump Stations – Transformer Procurement

Subject

Authorize a $600,000 increase to an existing agreement with J.F. Shea Construction Inc. for a new not-to-exceed amount of $10.4 million to purchase long-lead equipment for the Sepulveda Feeder Pump Stations project. (This action is part of a series of projects that are being undertaken to improve the supply reliability for State Water Project dependent areas)

Purpose

Early procurement of the long-lead electrical transformers for the two new pump stations will expedite project completion

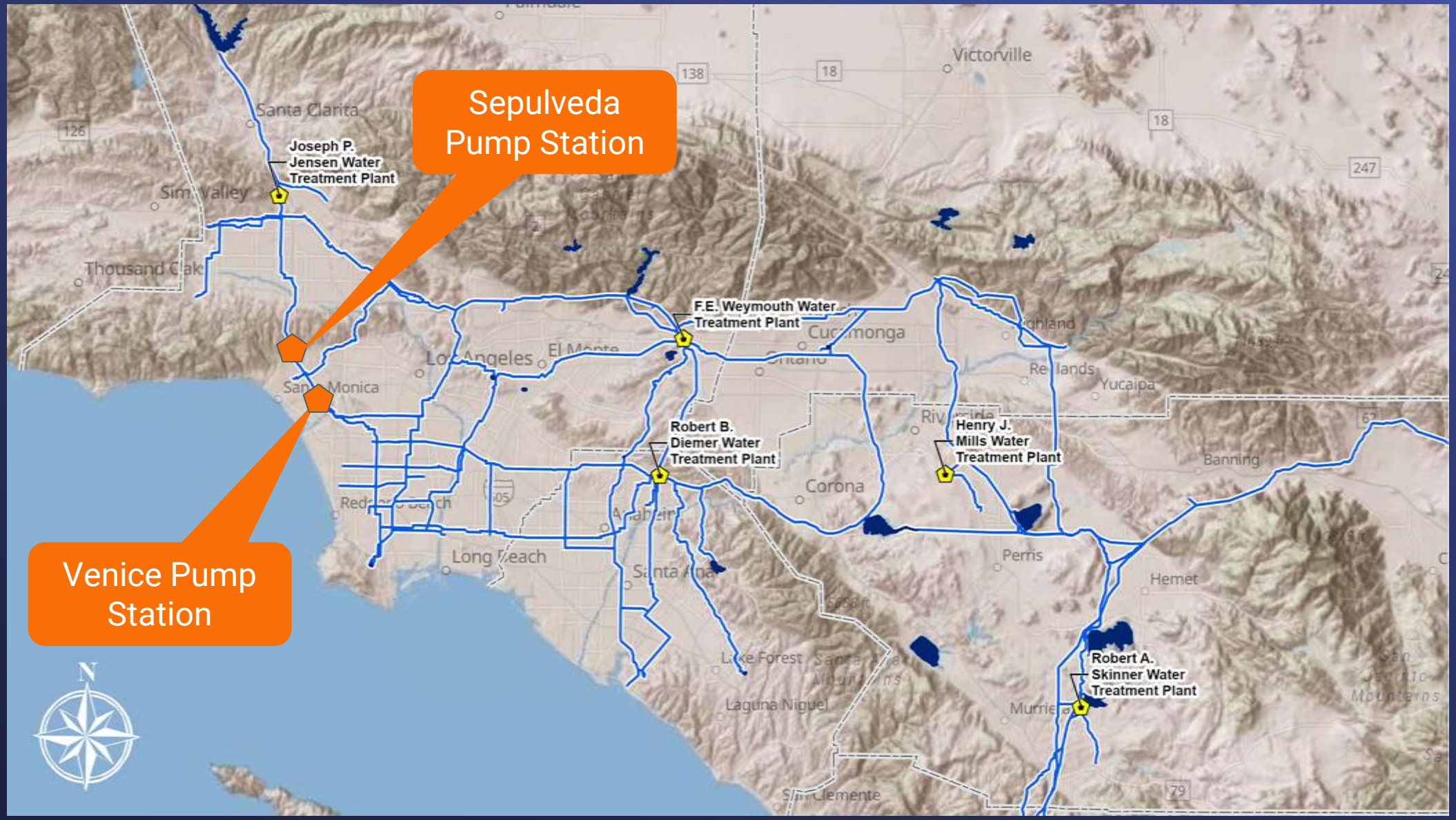
Recommendation and Fiscal Impact

Authorize an increase to an existing Progressive Design Build agreement for the Sepulveda Feeder Pump Stations project

Fiscal Impact of $690,000

Budgeted

Location Map



Pumping Water Up the Sepulveda Feeder Enhances Drought Resiliency

Sepulveda Feeder Pump Stations Transformer Procurement

Background

- Addition of pump stations at Sepulveda Canyon & Venice Pressure Control Facilities will allow Metropolitan to reverse normal flow in the Sepulveda Feeder
  - Augments treated water deliveries to west service area
  - Initial hydraulic capacity of pump stations of 30 cfs
    - Offsets 60 cfs of State Water Project (SWP) usage

Sepulveda Pump Station Layout Rendering

Progressive Design Build

- Owner has a single contract with the Design-Build firm
- Progressive Design Build (PDB) model utilizes a two-phase process
  - Phase 1: Design-Builder will progress the design collaboratively with Metropolitan to about 70% complete & propose a Guaranteed Maximum Price (GMP)
  - Phase 2: Once GMP is negotiated & upon board approval, Design-Builder will complete design & begin construction

Project Scope

- Two new pumping plants on the Sepulveda Feeder
- Project components
  - Pumps, motors, & interconnection piping
  - Valve structures
  - Mechanical eqpt. for surge protection
  - Electrical modifications & switchgear
  - Electrical & control buildings
- Lead time for electrical transformers can take up to 2.5 years

Proposed Electrical Room at Sepulveda

Venice Pump Station Layout Rendering

Sepulveda Feeder Pump Stations
Transformer Procurement

Alternatives Considered

- Traditional procurement by Metropolitan staff
  - Competitive bidding would delay completion of project by up to two years
- Wait until GMP is established before starting procurement
  - Delays project completion

Sepulveda Feeder Pump Stations
Transformer Procurement

Selected Alternative

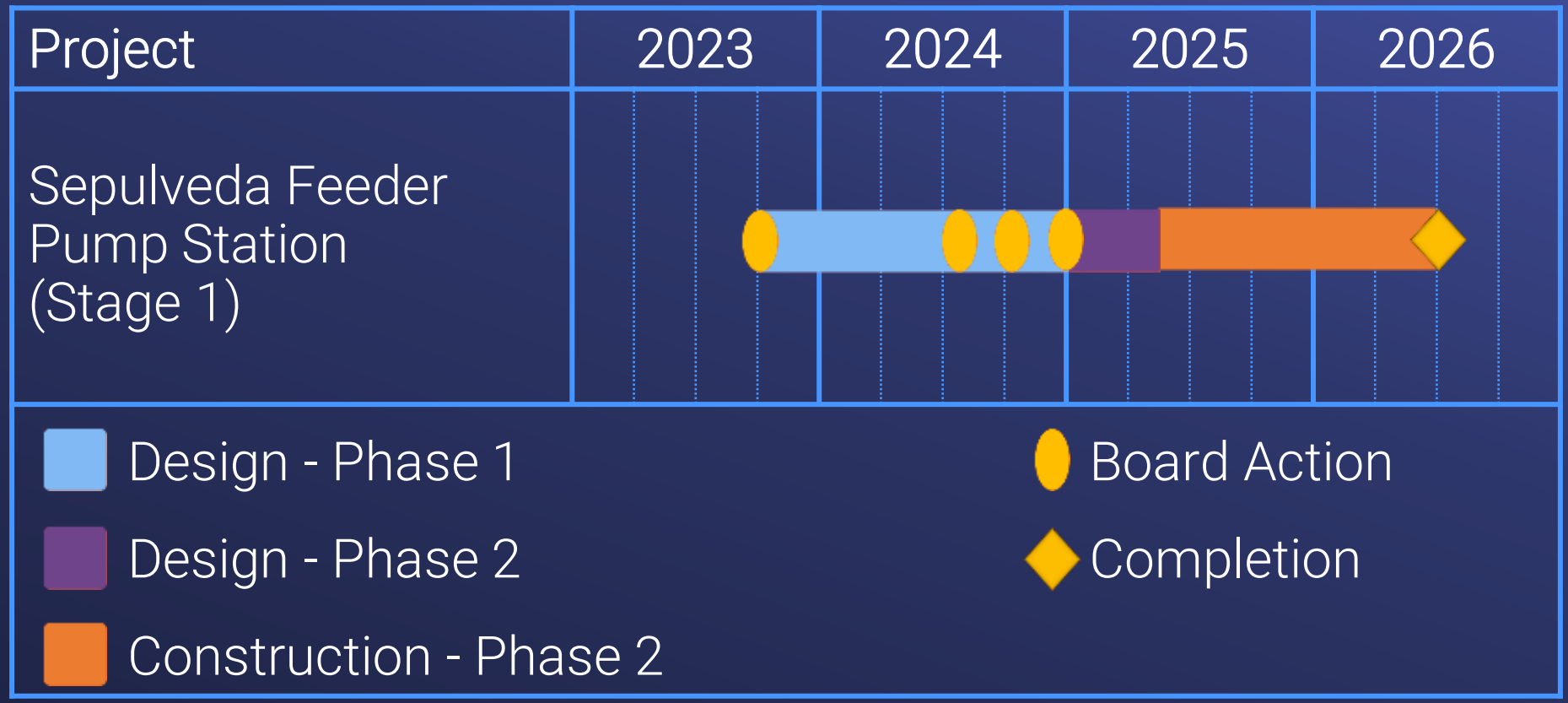
- Selected Alternative - PDB Contractor procurement of long lead equipment
  - Agreement permits PDB contractor, upon Metropolitan's approval, to commence procurement of required equipment during Phase 1, prior to agreement on the GMP
  - PDB contractor procures equipment directly on a best-value basis
    - Received six bids total
  - Early procurement expedites project schedule

Allocation of Funds

Sepulveda Feeder Pump Stations

Metropolitan Labor		
Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	$	66,000
Submittals Review, Tech. Support		24,000
Contracts		
J.F. Shea Construction Inc.		600,000
Total	$	690,000

Project Schedule



Board Options

- Option #1

  Authorize a $600,000 increase to an existing design-build services agreement with J.F. Shea Construction Inc. for a new not-to-exceed amount of $10.4 million to purchase long-lead equipment for the Sepulveda Feeder Pump Stations Project.

- Option #2

  Do not proceed with the procurement at this time.

Staff Recommendation

- Option #1


THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928