



Engineering, Operations, & Technology Committee

Amend FY 2022-24 CIP to Include Two New Projects

Item 7-5

March 11, 2024

Item 7-5
Add Two New
Projects
for SWP-
Dependent
Areas Supply
Reliability

Subject

Amend the Capital Investment Plan for fiscal years 2022/23 and 2023/24 to include two projects: (1) Sepulveda Feeder Pump Stations Stage 2, and (2) Inglewood Lateral Improvements

Purpose

Part of a series of projects to improve supply reliability for SWP-dependent member agencies

Recommendation and Fiscal Impact

Amend the Capital Investment Plan for fiscal years 2022/2023 and 2023/2024 to include two projects

Fiscal Impact of \$1,400,000

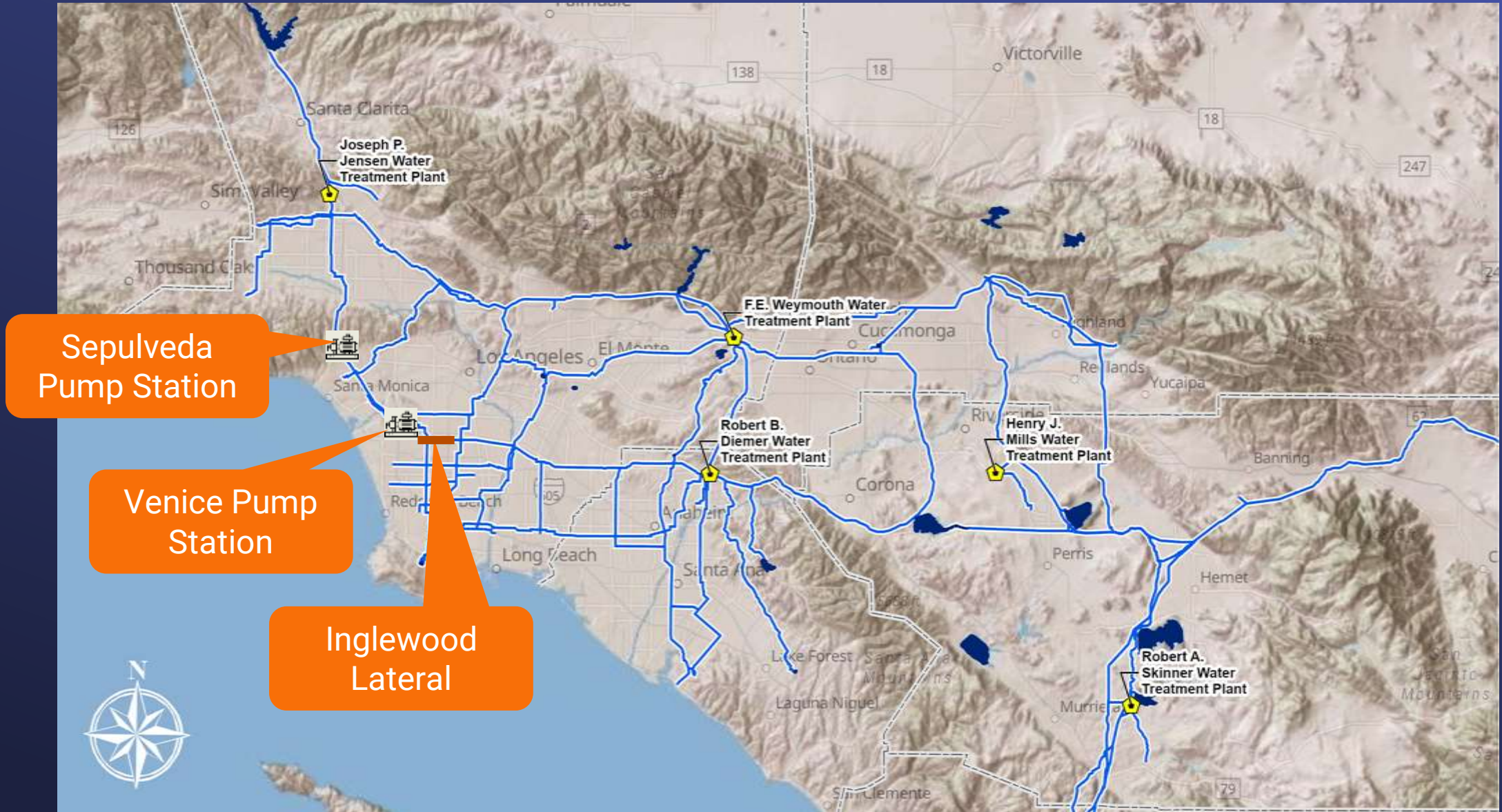
Budgeted

Add Two New
Projects
for SWP-Dependent
Areas Supply
Reliability

Capital Investment Plan Background

- April 2022 board action
 - Appropriated \$600 M
 - Authorized the GM to proceed with all projects in the CIP
- Board action needed for:
 - New projects
 - Minor capital projects that will exceed \$400k
 - Contract awards & consultant agreements over \$250k

Location Map



Add Two New
Projects
for SWP-Dependent
Areas Supply
Reliability

Background

- Extreme drought from 2020 to 2022 in California
- Disproportionate impact on member agencies highly dependent on State Water Project (SWP) supply
- Metropolitan Board passed resolution in August 2022 – call to action
- Drought Mitigation Actions Portfolio presented in February 2024

Drought Mitigation Projects Providing Timely Relief to SWP-Dependent Areas



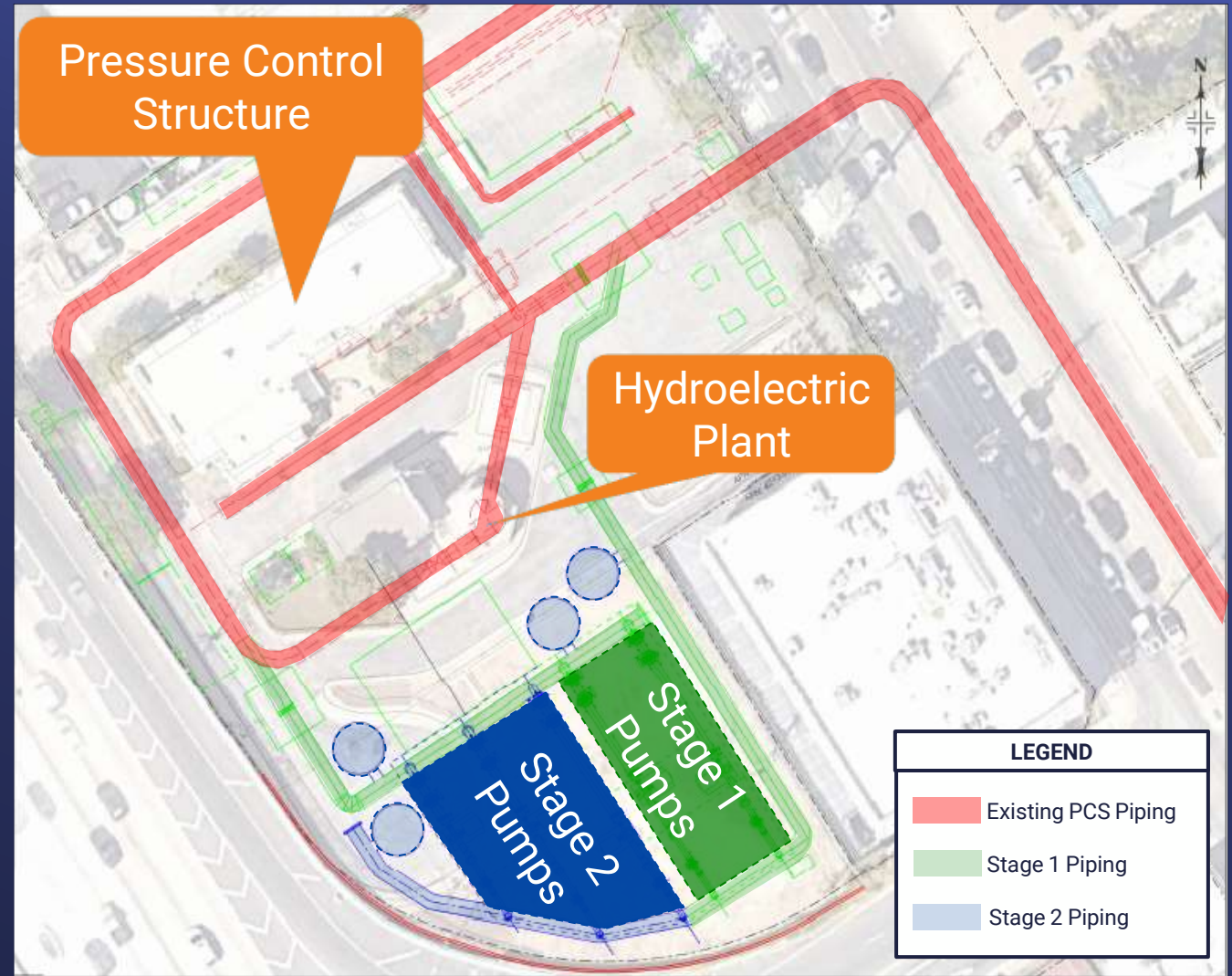
Enhancing Western SWP-Dependent Areas Drought Resilience

- Sepulveda Feeder Pump Stations
 - Stage 1 – 30 cfs
 - Stage 2 – 160 cfs (subject of this action)
- Other upgrades needed for Stage 2
 - North reach of Sepulveda Feeder PCCP Rehabilitation (design is ongoing)
 - Inglewood Lateral Improvements (subject of this action)



1. Sepulveda Feeder Pump Stations, Stage 2 - Scope of Work

- Additional pumps, valves, & piping
- Supporting electrical system upgrades
- SCADA integration
- Local surge protection
- Central Pool surge protection
- Cost - \$200 M to \$300 M



Venice Facility Potential Layout

1. Sepulveda Feeder Pump Stations, Stage 2 - Planned Work

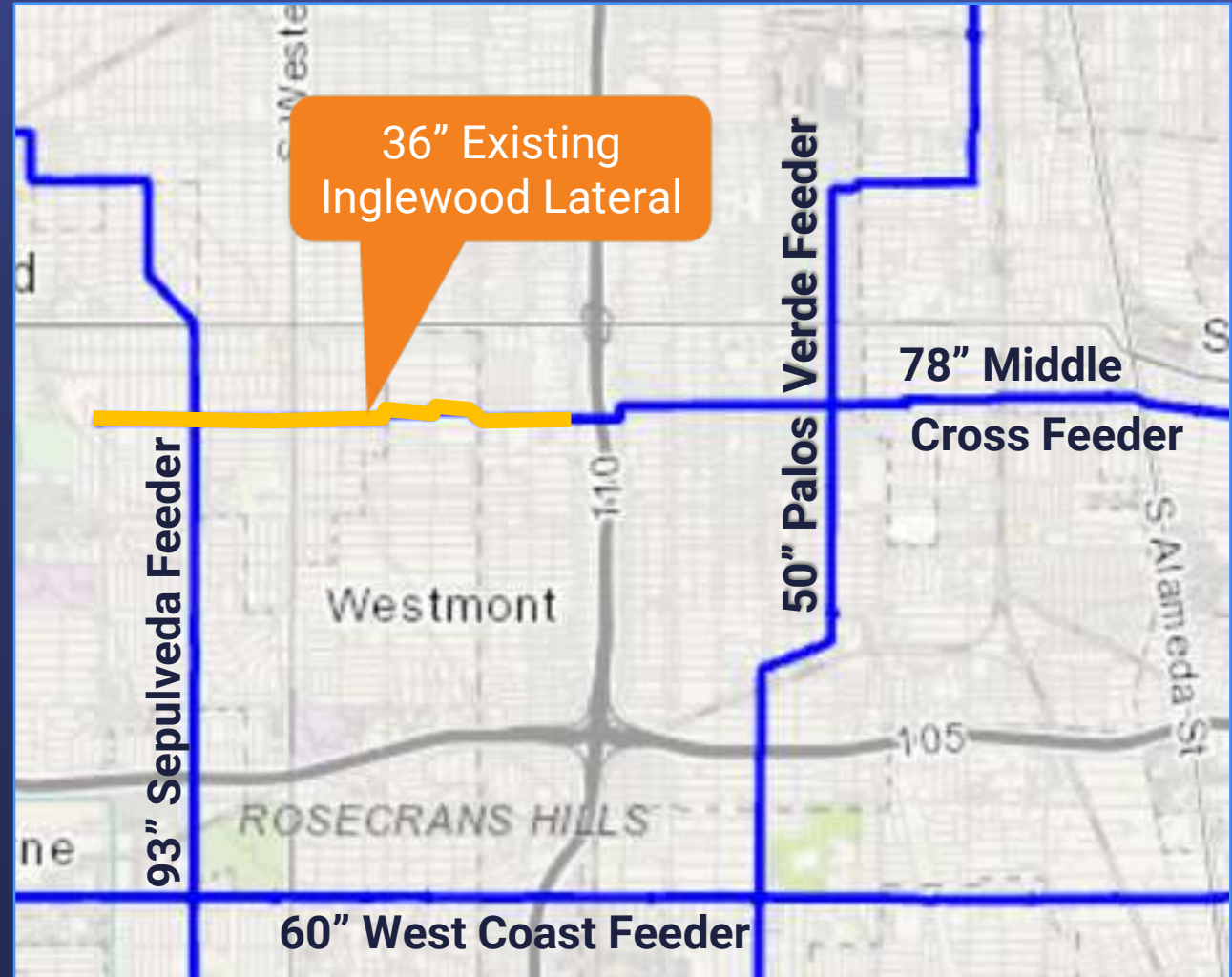
- Develop conceptual design
- Optimize strategy to harden existing infrastructure
- Identify alternatives
- Develop cost estimate & schedule
- Provide findings to CAMP4W for implementation consideration



Venice Hydroelectric Plant

2. Inglewood Lateral Improvements Project

- Upgrade capacity of existing 36-inch Inglewood Lateral
 - Increase supply availability for Sepulveda Feeder Pump Stations Stage 2
 - Maximize deliveries to Central Pool in high SWP years
 - Offset hydraulic impacts from PCCP relining
- Project Components
 - Construct 2-miles new pipeline
 - 72-inch to 78-inch diameter
 - Isolation valves & vaults
 - Bypass pipes & valves
 - SCADA Monitoring
- Cost - \$70 M to \$80 M



Inglewood Lateral & Adjacent Pipelines

2. Inglewood Lateral Improvements – Planned Work

- Alignment alternatives analysis
- Utility investigations
- Hydraulic analysis
- Develop cost estimate, construction sequencing plan & schedule

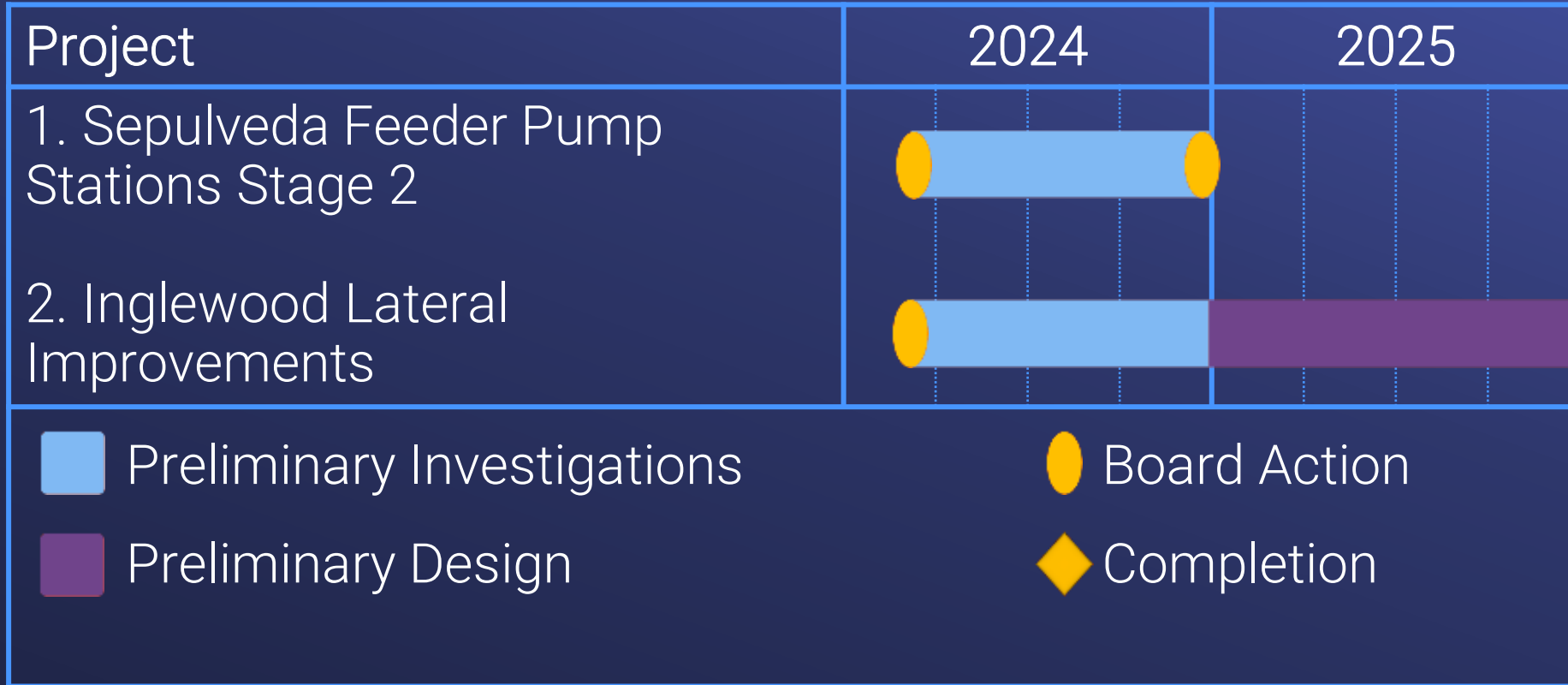


Middle Cross Feeder Construction - 1955

Allocation of Funds

	1. Sepulveda Pump Stations	2. Inglewood Lateral
Metropolitan Labor		
Preliminary Investigations	\$ 330,000	\$ 620,000
Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	100,000	150,000
Remaining Budget	70,000	130,000
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	Total	
	\$ 500,000	\$ 900,000

Project Schedule



Board Options

- Option #1
Amend the Capital Investment Plan for fiscal years 2022/2023 and 2023/2024 to include the Sepulveda Feeder Pump Stations Stage 2 and the Inglewood Lateral Improvements projects.
- Option #2
Do not proceed with the projects at this time.

Staff Recommendation

- Option #1

