



Engineering, Operations, & Technology Committee

# Wadsworth Pump Plant Bypass Pipeline Valve Installation

Item 7-3

August 19, 2024

## Item 7-3

### Wadsworth Pump Plant Bypass Pipeline Valve Installation

#### Subject

Authorize an increase of \$840,000 in change order authority to an existing contract with Steve P. Rados for the installation of an isolation valve for the Wadsworth Pump Plant Bypass Pipeline

#### Purpose

This action is part of a series of drought-response projects that are being undertaken to improve the supply reliability for State Water Project dependent member agencies

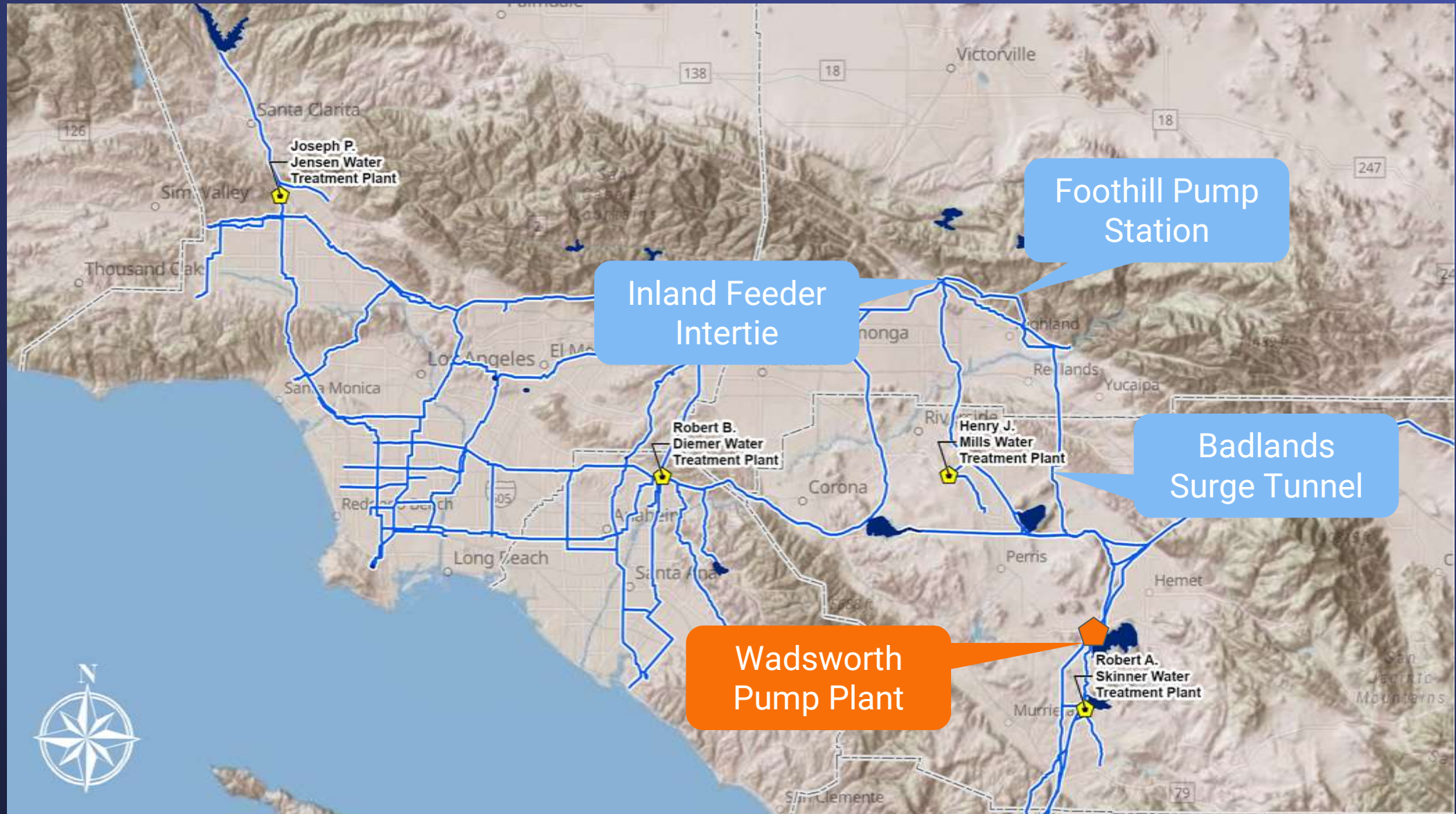
#### Recommendation and Fiscal Impact

Metropolitan staff recommends authorizing this increase to change order authority

Fiscal Impact of \$840,000

#### Budgeted

# Location Map





# Wadsworth Pump Plant Bypass Pipeline Valve Installation

## Background

Wadsworth P.P. Bypass planned to be constructed in two stages:

- Stage 1 (Contract Awarded January 2023)
  - Install approx. 600 feet 96-inch pipe
  - Construct valve structure
- Stage 2 (Planned Future Contract)
  - Install 84-inch Metropolitan furnished butterfly valve
  - Valve expected to be long-lead item with lengthy fabrication schedule

# Wadsworth Pump Plant Bypass Pipeline



A Section of the Bypass Pipeline  
Being Installed

## Contractor Scope – Stage 1

- Contract awarded to Steve P. Rados - Jan. 2023
- Contract Amount - \$14,820,500
- Contract Scope
  - Install approx. 600 feet 96-inch pipe
  - Encase pipeline in concrete
  - Construct valve structure
  - Restore access roads & parking area
- Construction is approx. 85% complete
  - Contractor experiencing delays in procuring long-lead time electrical equipment
  - Expected completion date is July 2025

# Wadsworth Pump Plant Bypass Pipeline Valve Installation



MWD Valve Inspection

## Background – Valve Procurement

- Awarded procurement contract to Sojitz Machinery Corporation of America - Aug 2022
- Contract Amount – \$5,647,405
- Contract Scope
  - Fabricate three 84-inch butterfly valves
  - One valve will be used at Wadsworth P.P. Bypass Pipeline
- Fabrication is complete
  - Valves delivered July 2024

## Wadsworth Pump Plant Bypass Pipeline Valve Installation

### Opportunity for Beneficial Change Order

- Utilizing existing contract offers an opportunity to negotiate a favorable contract for Stage 2 work
  - Contractor is mobilized onsite
  - Work is similar in nature to Stage 1 work
  - Eliminates the need to prepare, advertise & award a second contract
  - Will allow completion of Stage 2 work one year ahead of schedule
    - Valve will be installed in Feb 2025
    - Eliminates additional shutdown in 2026

## Wadsworth Pump Plant Bypass Pipeline Valve Installation

### Change Order Authority Limits

- Change order authority determined by Admin. Code (Section 8123)
  - GM authority to execute change orders is the greater of:
    - 5% of the original contract amount
    - \$250,000
- \$741,025 for this contract



# Wadsworth Pump Plant Bypass Pipeline Valve Installation



Security Gate w/  
Center Island

## Scope of Work - Contractor

- Install 84-inch diameter isolation valve
  - Relocate the operator & card reader from the Wadsworth Pump Plant automated security gate
  - Furnish & install a programmable logic controller
  - Install anodes inside the Eastside Pipeline
- Amount of Contract - \$14,820,500
- Maximum Change Order Authority - \$741,025
- Executed Change Orders - \$347,000
- Recommended Increase - \$840,000
- New Maximum Change Order Authority - \$1,581,025

# Wadsworth Pump Plant Bypass Pipeline Valve Installation

## Scope of Work - Metropolitan

- Shutdown of the feeder & establishment of clearances
- Final disinfection & water quality testing
- Return of pipeline to service
- Construction inspection & technical support



Pipe Installation by Contractor

# Wadsworth Pump Plant Bypass Pipeline Valve Installation

## Alternatives Considered

- Staff considered adding re-lining of Eastside Pipeline to the proposed change order
  - Deterioration of a 1,100-foot reach of the Eastside Pipeline discovered while interconnecting the Wadsworth P.P. Bypass
  - 30-year-old epoxy lining is nearing the end of its service life
  - Steel pipe is experiencing light rust
- Selected Alternative – Initiate new capital project next biennium
  - Considers relative priority of lining work & urgency
  - In the interim, 60 sacrificial anodes will be installed as part of contract to limit corrosion

# Allocation of Funds

## Wadsworth Pump Plant Bypass Pipeline

Construction Support		
Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	\$	121,000
Construction Inspection & Support		373,000
Force Construction		429,000
Submittals Review, Tech. Support, Record Dwgs.		69,000
Contracts		
Steve P. Rados		840,000
Remaining Budget		68,000
Total		\$ 1,900,000



# Project Schedule



# Board Options

- Option #1

Authorize an increase of \$840,000 in change order authority for a new maximum change order authority of \$1,581,025 to an existing contract with Steve P. Rados for the installation of an isolation valve at the Wadsworth Pumping Plant Bypass Pipeline.

- Option #2

Do not authorize the increase in change order authority at this time.

# Staff Recommendation

- Option #1

