



Engineering, Operations, & Technology Committee

Amend FY 2022-24 CIP to Include Three New Projects

Item 7-2

June 12, 2023

Add 3 New Projects to Current CIP

Capital Investment Plan Background

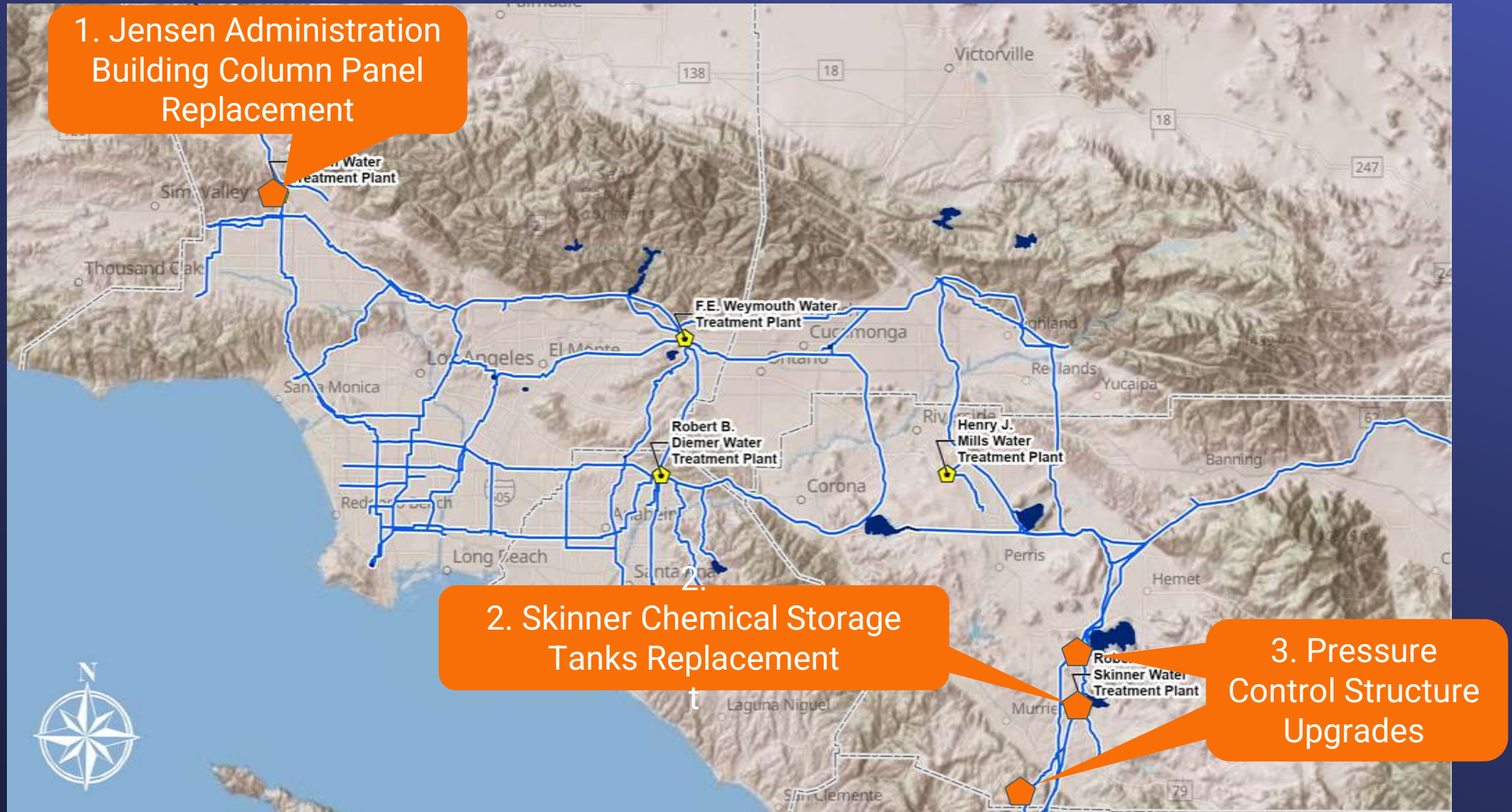
- April 2022 board action
 - Appropriated \$600 M
 - Authorized the GM to proceed with all projects in the CIP
- Board action needed for:
 - New projects
 - Minor capital projects that will exceed \$400k
 - Contract awards & consultant agreements over \$250k

Add 3 New Projects to Current CIP

Current Action

- Amend the Capital Investment Plan for fiscal years 2022/2023 & 2023/2024 to include three projects:
 1. Jensen Administration Building Column Panel Replacement
 2. Skinner Chemical Storage Tanks Replacement
 3. Auld Valley & Red Mountain Control Structures Upgrade
- Award a \$281,900 contract to MMJ Contracting Inc. to replace the existing entrance column panels at the Jensen Administration Building

Distribution System

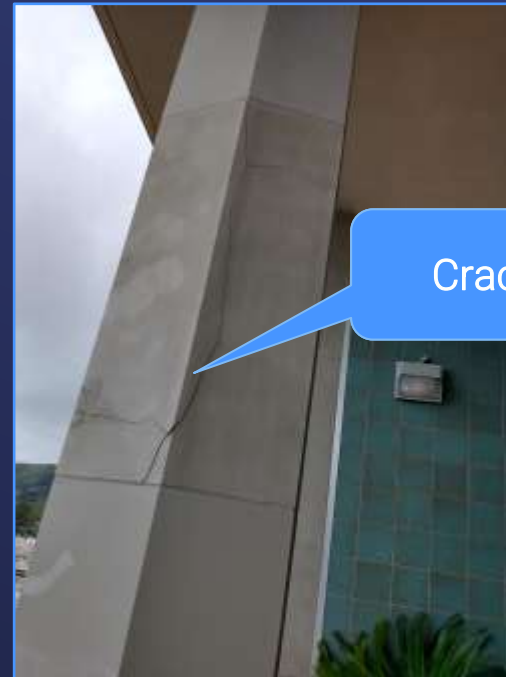


1. Background - Jensen Administration Building Column Panel Replacement

- Building constructed in 1970
- Glass fiber reinforced concrete (GFRC) panels installed in 2010
- Cracked due to weathering, temperature fluctuations & seismic movement



Jensen Admin Building Entrance



Entrance Column



Crack at Column

Jensen Administration Building Column Panel Replacement

1. Alternatives Considered

- Replace GFRC panels with concrete
 - Increases design loads & potential for modification of columns
 - Increases cost & complexity
- Selected Alternative – Enhanced GFRC panels
 - Expeditiously addresses issue
 - Enhanced GFRC is expected to have a longer life

Jensen Administration Building Column Panel Replacement

1. Scope of Work

- Contractor
 - Remove the existing panels at Jensen Administration Building
 - Furnish & install new GFRC Panels
- Metropolitan
 - Force Construction
 - Final coating of columns
 - Construction management & inspection
 - Review submittals & prepare record drawings
 - Provide project management & contract admin.

1. Bid Results

Specifications No. M-3061 Jensen Administration GFRC Panels

Bids Received	March 2, 2023
No. of Bidders	2
Lowest Responsible Bidder	MMJ Contracting Inc.
Low Bid	\$281,900
Other Bid	\$294,000
SBE Participation*	100%

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

2. Background - Skinner Chemical Storage Tanks Replacement

- Tanks installed in 2007
- Sodium hypochlorite provides
 - Backup disinfection
 - Algae control
- Leak developed in February 2023
- Promptly repaired on temporary basis
- Replacement of tanks & instrumentation recommended



Skinner Chemical Tank



Tank Flange

2. Alternatives Considered

- Include in the next biennium's CIP
 - Delays project completion & does not address tank deterioration
- Replace only damaged tank
 - Reduces operational flexibility
- Selected Alternative – Add project to current biennium CIP & replace both chemical tanks
 - Enhances plant reliability

2. Scope of Work - Metropolitan

- Field investigations & tank procurement specifications
- Specifications & drawings for tank installation
- Fabrication inspection
- Project management, project controls & environmental documentation



Inside Tank Flange

3. Background - Auld Valley & Red Mountain Control Structures Upgrades

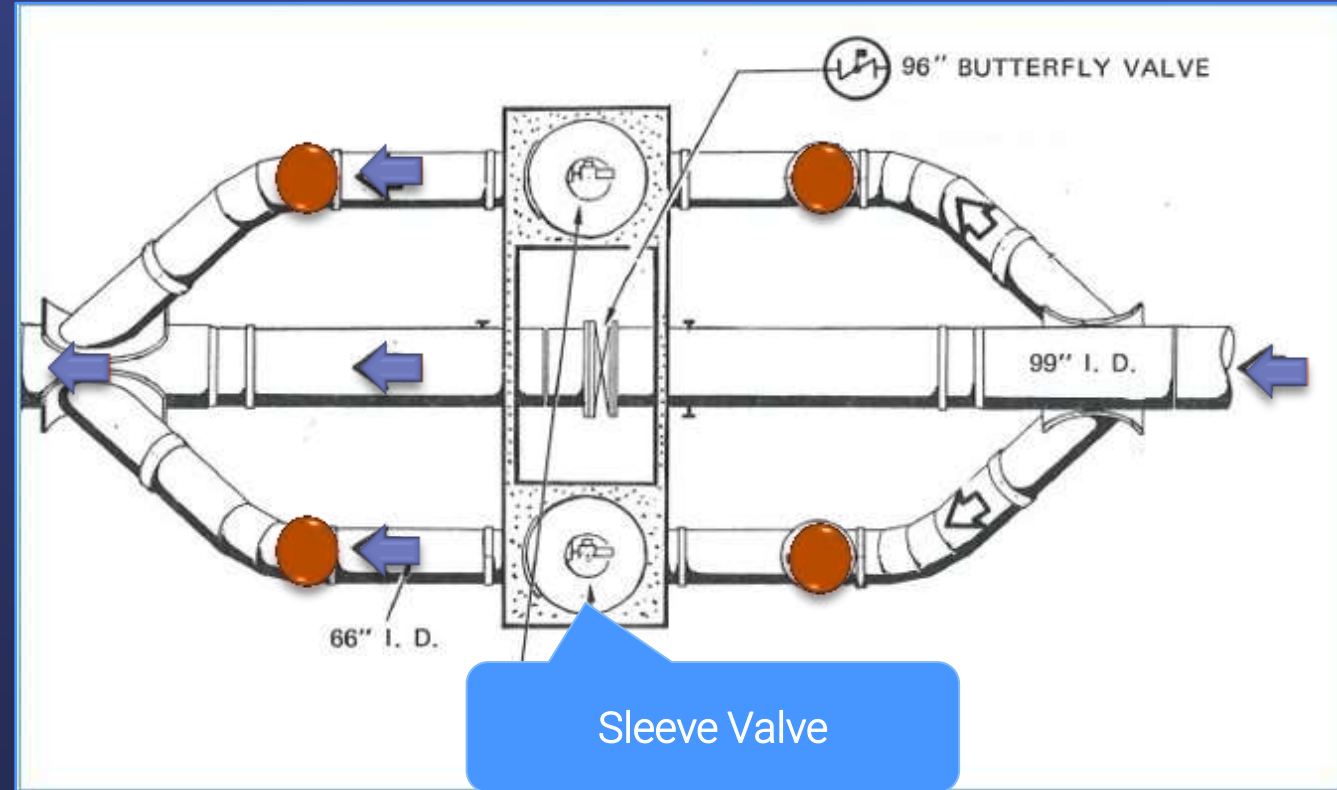
- Control Structures
 - Regulate flows to San Diego Pipelines Nos. 3 & 5
 - Each fitted with two 42-inch diameter throttling sleeve valves
- Extensive wear & tear on sleeve valves
 - One valve on Red Mtn. PCS was refurbished under a minor capital project
 - The other Red Mtn. PCS valve was found to be beyond repair



Sleeve Valve

3. Background - Auld Valley & Red Mountain Control Structures Upgrades

- Staff recommends replacement of one valve at Red Mtn. PCS & refurbishment of two valves on Auld Valley PCS
- Staff recommends installation of 8 new butterfly valves
 - Allows pipelines to remain in service for maintenance of sleeve valves



Plan View Drawing



Proposed Isolation Valves

3. Alternative Considered

- Alternative – Do not include isolation valves in project
 - Refurbishment currently requires installation of bulkheads
 - Time consuming & requires shutdown of pipelines
- Alternative – Incorporate project into next biennium CIP
 - Delays procurement of sleeve valve for Red Mtn. PCS which requires 18 months for fabrication
- Selected Alternative – Add project into current CIP biennium
 - Enhances reliability to member agencies

3. Scope of Work - Metropolitan

- Prepare documents for procurement of one sleeve valve
- Evaluate refurbishment options for remaining two sleeve valves
- Conduct field investigations for isolation valve siting
- Perform topographic survey & mapping, geotechnical analysis & site layouts
- Provide project management & project controls

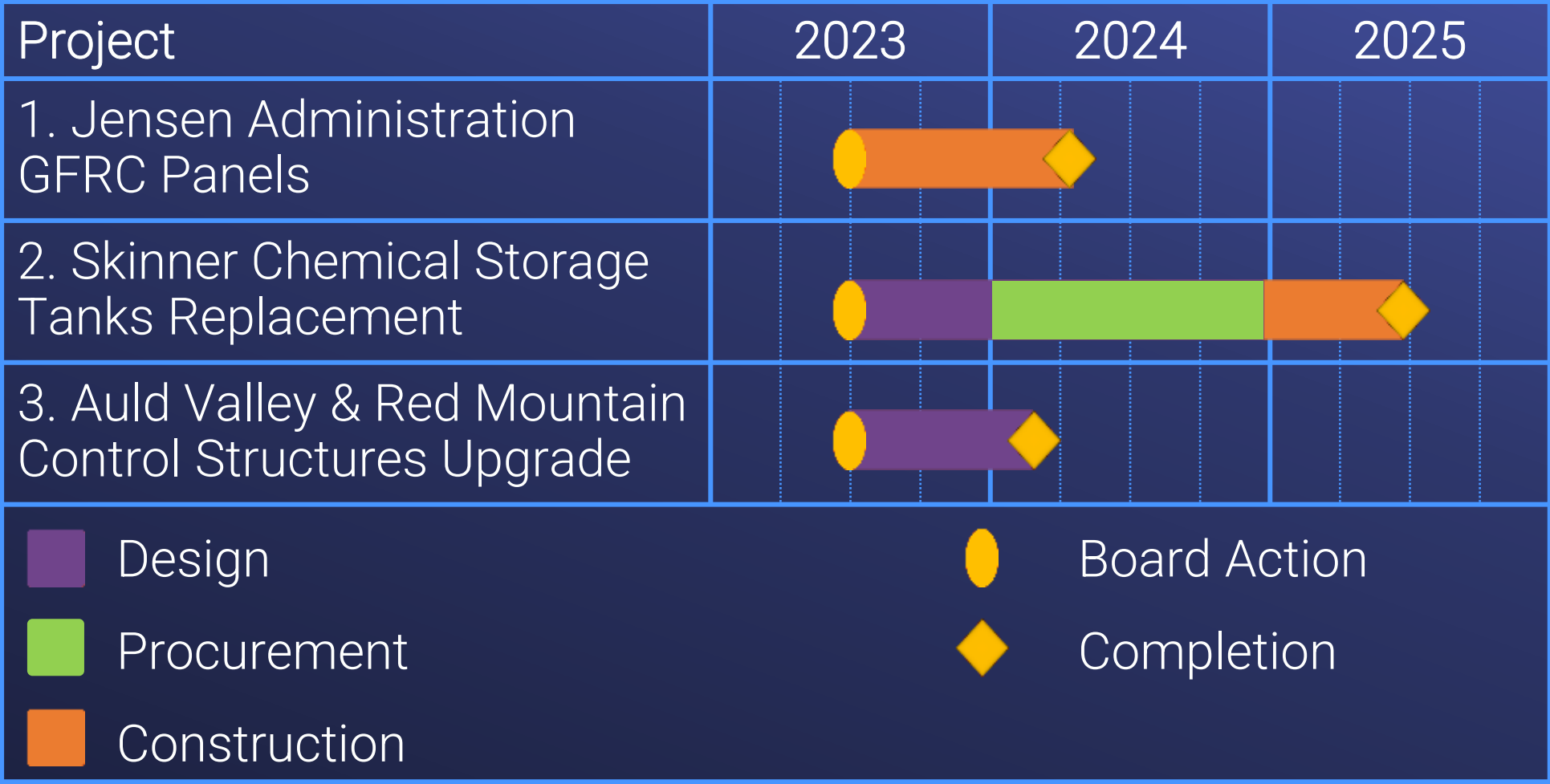


Inside Sleeve Valve Repair

Allocation of Funds

	1. Jensen Panels	2. Skinner Tanks	3. Control Structures
Metropolitan Labor			
Investigations & Conceptual Design	\$ -	\$ 57,000	\$420,000
Design	100,000	98,000	
Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	14,000	90,000	80,000
Construction Inspection & Support	45,000	60,000	
Force Construction	27,000	-	-
Submittals Review, Tech. Support, Record Drwgs.	21,000	-	-
Materials & Supplies	-	230,000	-
Contracts			
MMJ Contracting Inc.	281,900	-	-
Remaining Budget	41,100	65,000	50,000
Total	\$530,000	\$600,000	\$550,000

Project Schedule



Board Options

- Option #1
 - a. Amend the Capital Investment Plan for fiscal years 2022/2023 and 2023/2024 to include the Jensen Administration Building Column Panel Replacement, Skinner Chemical Storage Tank Replacement, and the upgrades to the Auld Valley and Red Mountain Control Structures; and
 - b. Award a \$281,900 contract to MMJ Contracting Inc. to replace the GFRC panels in the entrance columns of the Jensen Administration Building.
- Option #2

Do not proceed with the projects at this time.

Staff Recommendation

- Option #1

