



Engineering, Operations, & Technology Committee

Sepulveda Feeder Rehabilitation – Reach 9

Item 7-2

April 8, 2024

Item 7-2 Sepulveda Feeder Rehabilitation Reach 9

Subject

Authorize an agreement with HDR Engineering Inc. in an amount not to exceed \$3 million for final design to rehabilitate a portion of the Sepulveda Feeder; and adopt the CEQA determination

Purpose

Re-sequence and advance design of prestressed concrete cylinder (PCCP) rehabilitation of the Northern Section of the Sepulveda Feeder

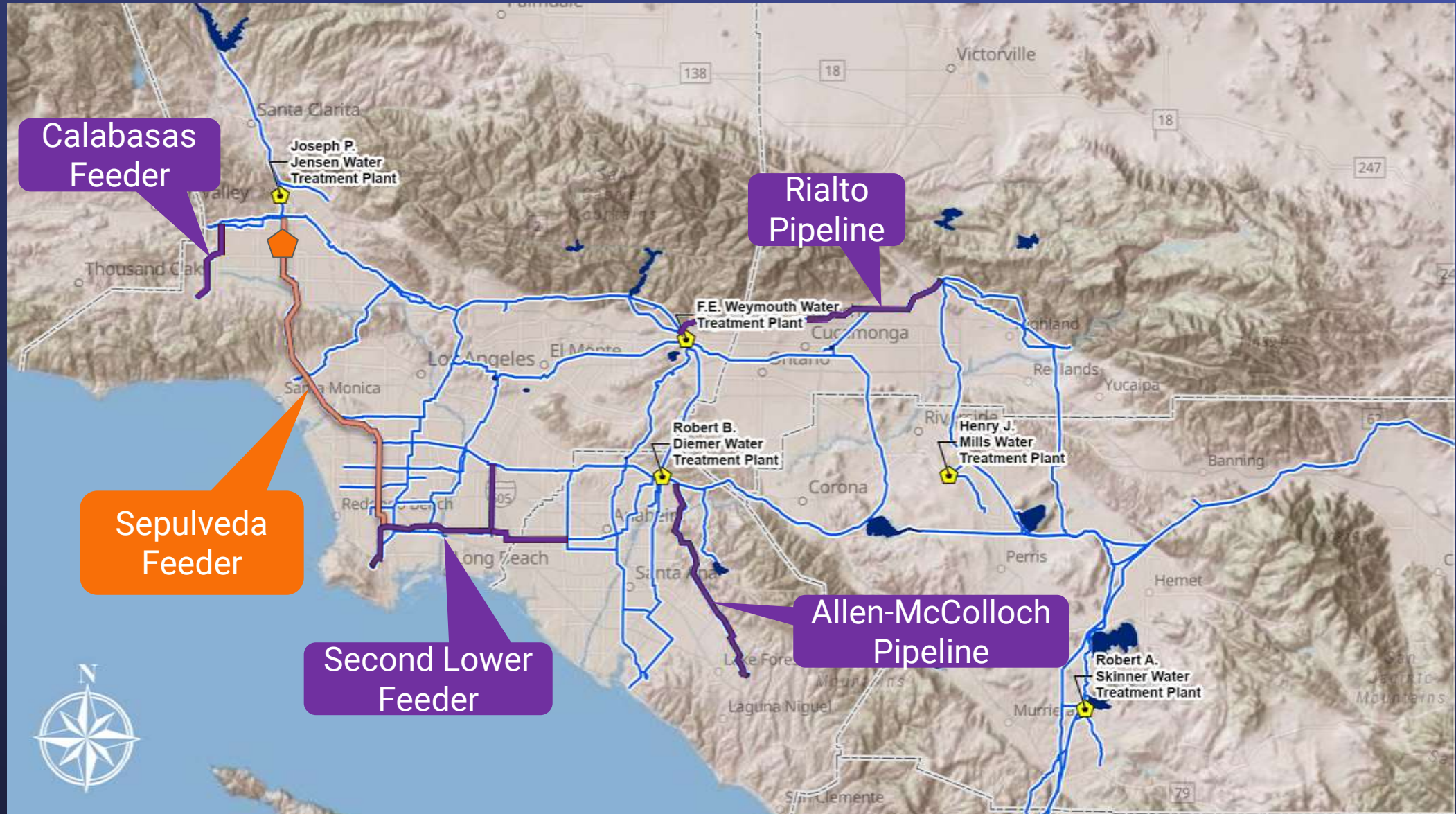
Recommendation and Fiscal Impact

Adopt the CEQA determination and authorize an agreement for design to rehabilitate PCCP portions of the Sepulveda Feeder

Fiscal Impact of \$4.6 M

Budgeted

Location Map



Sepulveda Feeder Rehabilitation



Background

- 84 to 150-inch diam. PCCP & welded steel pipe
- 42-mile long constructed in 1970s
- Crosses several freeways through urban areas

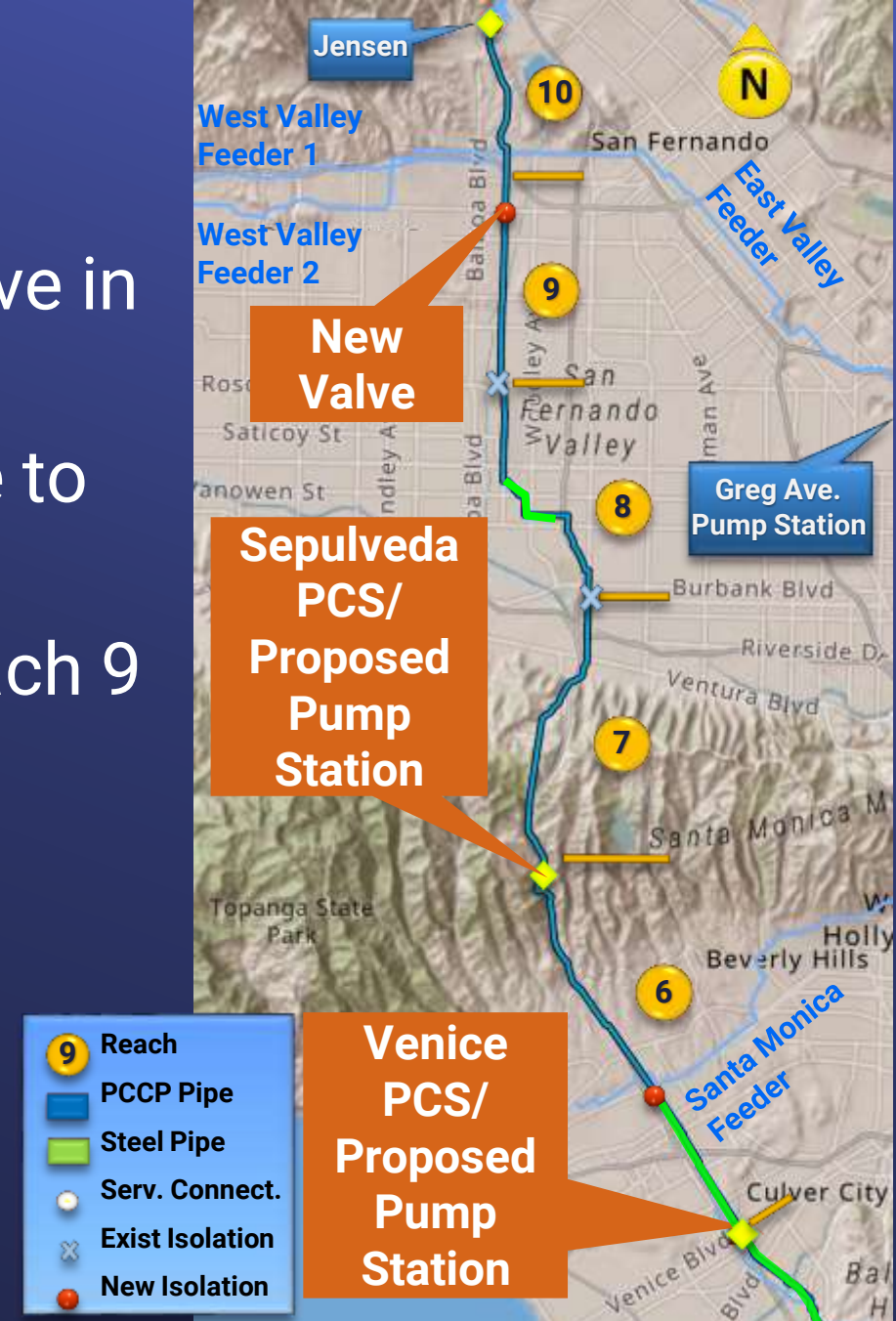


Sepulveda Feeder Urgent Repair
Carbon Fiber Reinforced
Polymer March 2024

Sepulveda Feeder Rehabilitation Northern Section

Project Approach

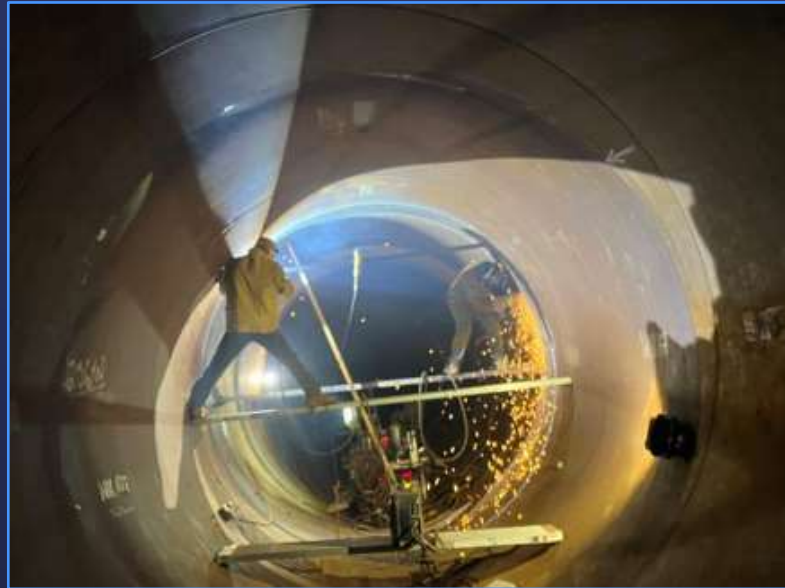
- Install sectionizing valve in Reach 9
- Maintain water service to westside agencies
- Construction from Reach 9 south to Reach 6
- Final section Reach 10



Sepulveda Feeder Rehabilitation Reach 9

Planned Work

- Reline 19,600 ft of 120-inch & 96-inch diameter PCCP with new steel liner
- Install a new sectionalizing valve & a new valve structure
- Install a temporary bulkhead



Welding inside the Etiwanda
136-inch diameter pipe



42-inch diameter sectionalizing
valve for Second Lower Feeder

Sepulveda Feeder Rehabilitation Reach 9

Recommendations

- Alternative considered – Utilize in-house Metropolitan staff to conduct final design activities
 - Limited availability of staff to conduct work
 - Work requires specialized technical expertise
- Selected Alternative – Use consultant to develop final design
 - Metropolitan staff to provide technical input & oversight

Sepulveda Feeder Rehabilitation Reach 9

Metropolitan Scope of Work

- Perform topographic survey & mapping
- Develop valve procurement documents
- Provide technical oversight
- Conduct project management

Sepulveda Feeder Rehabilitation Reach 9

HDR Engineering Inc. Agreement

- Competitively selected under RFP No. 1168
 - Completed general preliminary design of the entire Sepulveda Feeder
- Scope of Work
 - Develop final design drawings & specifications
 - Prepare traffic control plans
 - Permitting & bidding support
 - Develop construction cost estimate
- NTE amount: \$3,000,000
- SBE participation level: 25%

Sepulveda
Feeder
Rehabilitation
Reach 9

Helix Environmental Planning Inc.

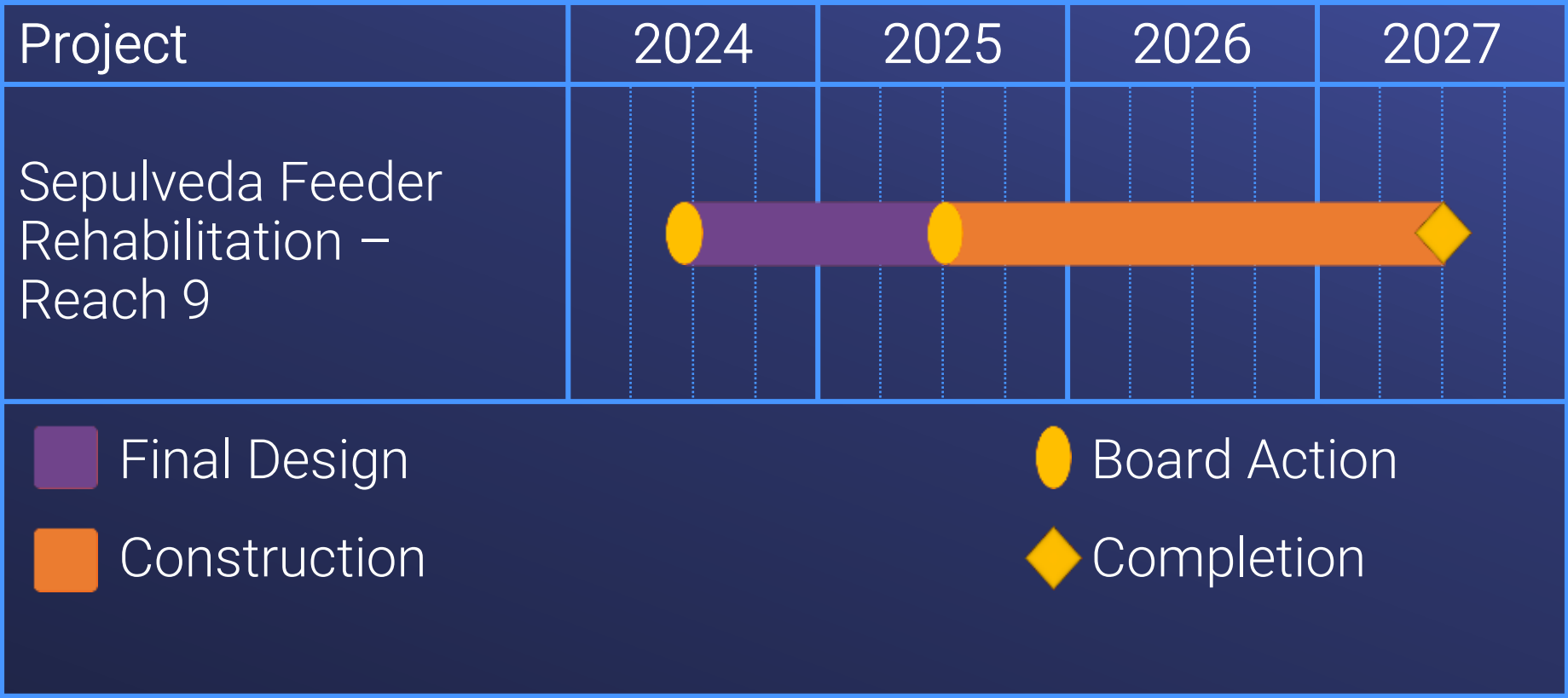
- Perform environmental studies under an existing board-authorized agreement
- NTE amount: \$150,000
- No SBE participation level was established for this agreement

Allocation of Funds

Sepulveda Feeder Rehabilitation Reach 9

Metropolitan Labor	
Final Design	\$ 644,000
Owner Costs (Proj. Mgmt., Envir. Support)	649,000
Incidental Expenses	55,000
Professional/Technical Services	
HDR Engineering Inc.	3,000,000
Helix Environmental Planning Inc.	150,000
Remaining Budget	102,000
<hr/>	
Total	\$ 4,600,000

Project Schedule



Board Options

- Option #1

Adopt the CEQA determination that final design of the Sepulveda Feeder rehabilitation project is within the scope of the certified 2017 Programmatic Environmental Impact Report for the Prestressed Concrete Cylinder Pipe Rehabilitation Program and authorize a new agreement with HDR Engineering Inc. for a not-to-exceed amount of \$3 million for final design to rehabilitate PCCP portions of the Sepulveda Feeder.

- Option #2

Do not proceed with this project at this time.

Staff Recommendation

- Option #1

