



Engineering, Operations, & Technology Committee

Eagle Mountain and Julian Hinds Pumping Plants Utilities Replacement

Item 8-1

November 17, 2025

Presented by: Prudencio Alonso

Item 8-1 Eagle Mountain & Hinds Pumping Plants Utilities Replacement

Subject

Award a \$35,722,000 contract to Kiewit Infrastructure West Co. to replace utilities at the Eagle Mountain and Julian Hinds pumping plants; and authorize an increase of \$320,000 to an agreement with AECOM Technical Services Inc., for a new not-to-exceed amount of \$550,000

Purpose

Enhance reliability of the Eagle Mountain and Julian Hinds pumping plants utility systems by reducing the frequency of repairs and long-term maintenance costs

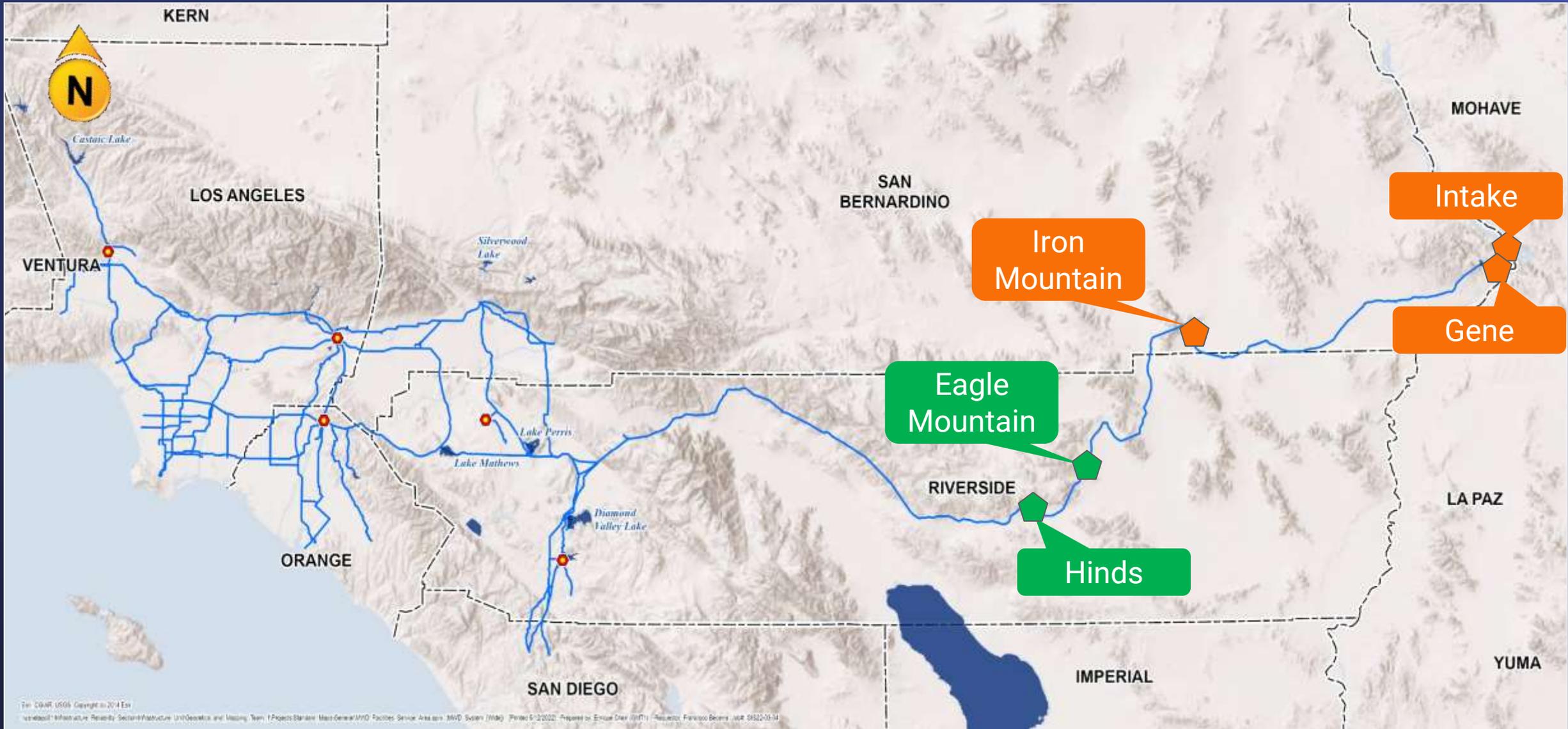
Recommendation and Fiscal Impact

Award a construction contract to replace utilities at Eagle Mountain and Julian Hinds Pumping Plants; and authorize an increase to an existing agreement for technical support during construction

Fiscal Impact – \$42 Million

Budgeted

Location Map



Background

- Utilities system installed in 1930s
- Isolated facilities rely on on-site utility systems
 - Potable water
 - 3.1 miles
 - Non-potable/Industrial Water
 - 2.9 miles
 - Wastewater
 - 1.9 miles



Eagle Mountain Pumping Plant

Concerns

- Recurring leaks & breaks
- Slow-draining wastewater collection pipes & persistent odors
- Operational impacts
 - Limited resources availability
 - Boil water notices during repairs
 - Temporary supply of potable water
- Domestic water lines experience elevated water temperatures



Water Chiller System (Eagle Mtn.)



Corroded Pipe



Broken Sewer Main

Alternatives Considered

- Considered Alternative – Utilize conventional materials & repave
 - Ductile iron & galvanized steel pipes
 - Required for higher pressures
 - Increased material costs
- Selected Alternative – Utilizes appropriate materials, cost-effective design & pavement replacement at affected areas
 - Combination of polyvinyl chloride (PVC) & high-density polyethylene (HDPE) materials
 - PVC & HDPE corrosion resistant
 - Repave affected areas

Scope of Work - Contractor

- Replace existing domestic water systems
 - Mainlines to & from the water tanks
 - Distribution piping & service laterals to all buildings & homes
- Replace existing non-potable/industrial water systems
 - Distribution piping & laterals to buildings & villages
- Replace portions of the wastewater collection piping
 - Collector lines throughout the pumping plants
 - Leach field & septic tanks at Hinds Pumping Plant
- Replace existing asphalt within affected areas
 - Grading & drainage improvements
- Perform hazardous materials abatement
 - Concrete asbestos pipe

Scope of Work - Metropolitan

- Provide site access
- Perform utility outage support at villages
- Perform inspection & construction management
- Provide environmental support
- Project management & contract administration

Bid Results

Specifications No. 1935A

Bids Received	August 26, 2025
No. of Bidders	2
Lowest Responsible Bidder	Kiewit Infrastructure West Co.
Low Bid	\$35,722,000
Other Bid	\$39,170,000
Engineer's Estimate (EE)*	\$21,000,000
Engineer's Estimate (EE)**	\$34,311,838
SBE Participation***	25%

*Design consultant generated

**Post Bid EE by independent cost estimator

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

Difference Between the Two Engineers' Estimates

- Remote location factor underestimated
 - Concurrent work at two sites
- Challenging site conditions underestimated
 - Rocky & steep terrain
- Missed & underestimated scope
 - Hazardous material abatement & hauling costs
 - Fuel & general transportation costs
- Escalation & wage increases

Staff considered rebidding

- Lower bids are not anticipated
- Current bidders may not rebid
- Urgent need to replace failing facilities



Eagle Mountain Village

Eagle Mountain &
Hinds Pumping Plant
Utilities Replacement

AECOM Technical Services Inc. – Agreement Amendment

- Engineer of Record
- Scope of Work
 - Provide construction technical support
 - Perform submittal reviews
 - Prepare record drawings
- Amendment amount: \$320,000
- NTE amount: \$550,000
- SBE participation level: 25%

Allocation of Funds

Eagle Mountain & Julian Hinds Pumping Plants Utility Replacement

Studies & Investigations

Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	\$	674,000
Construction Inspection & Support		3,240,000
Force Construction		295,000
Submittals Review, Tech. Support, Record Dwgs.		356,000

Professional/Technical Services

AECOM Technical Services Inc.		320,000
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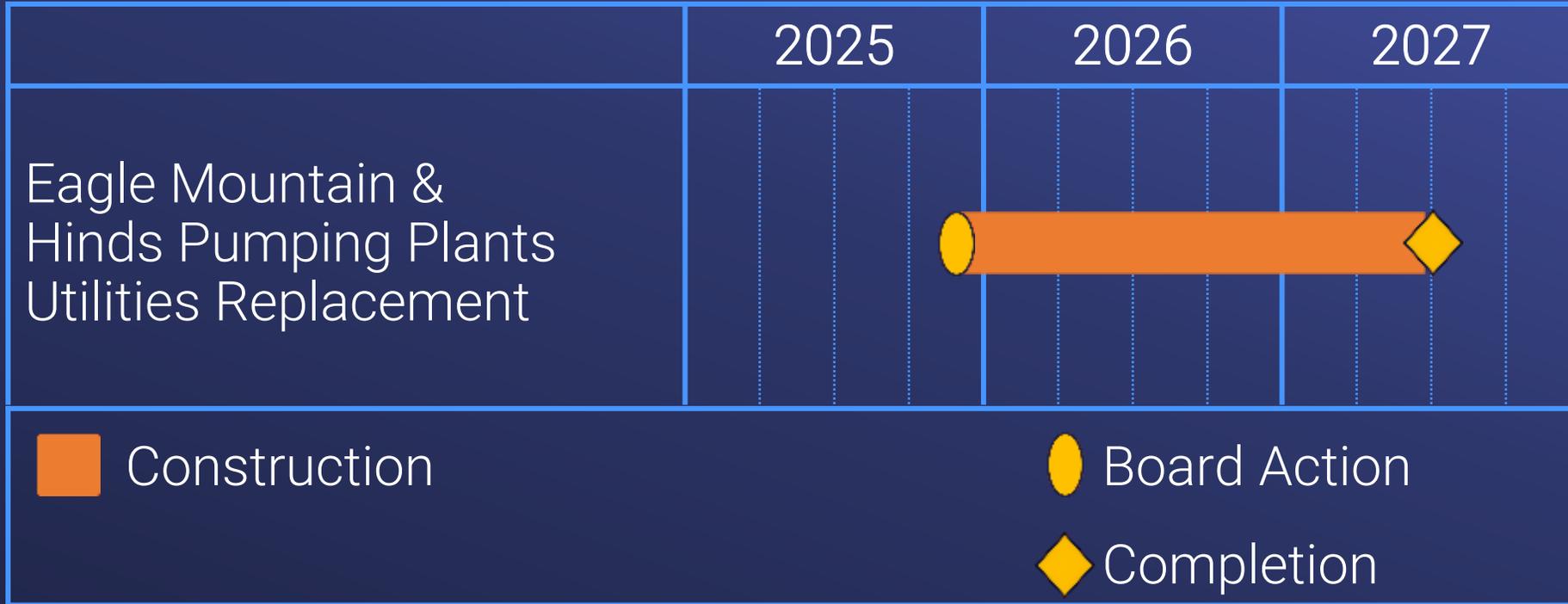
Contracts

Kiewit Infrastructure West Co.		35,722,000
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Remaining Budget		1,393,000
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Total \$ 42,000,000

Project Schedule



Board Options

- Option #1
 - a. Award a \$35,722,000 contract to Kiewit Infrastructure West Co. to replace utilities at Eagle Mountain and Julian Hinds Pumping Plants; and
 - b. Authorize an increase of \$320,000 to an existing agreement with AECOM Technical Services Inc. for a new not-to-exceed total of \$550,000 for technical support during construction.
- Option #2

Do not proceed with the project at this time.

Staff Recommendation

- Option #1

