



Engineering, Operations, & Technology Committee

Foothill Pump Station Intertie Valve Procurement

Item 7-3

March 11, 2024

Item 7-3 Foothill Pump Station Intertie

Subject

Award a \$1,779,174 procurement contract to Vogt Valves Inc. for a 132-inch diameter butterfly valve; and authorize increase of \$260,000 to agreement with HDR Engineering Inc. for design services

Purpose

Procure a large diameter butterfly valve and complete final design and permitting for Foothill Pump Station Intertie project to improve supply reliability for SWP dependent member agencies

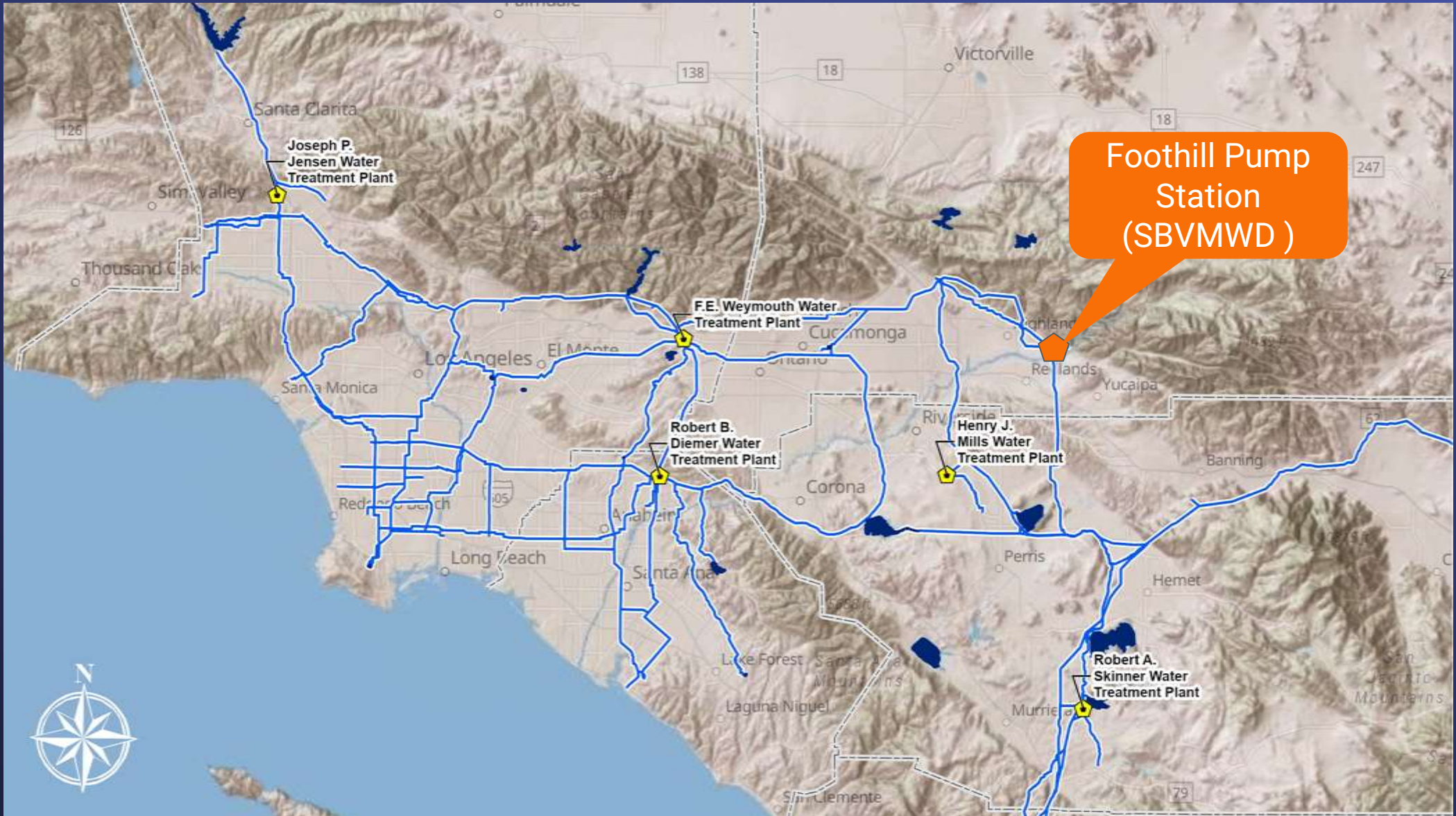
Recommendation and Fiscal Impact

Award a procurement contract for a 132-inch diameter valve; and authorize an amendment to an existing agreement for final design of Foothill Pump Station Intertie project

Fiscal Impact of \$2,950,000

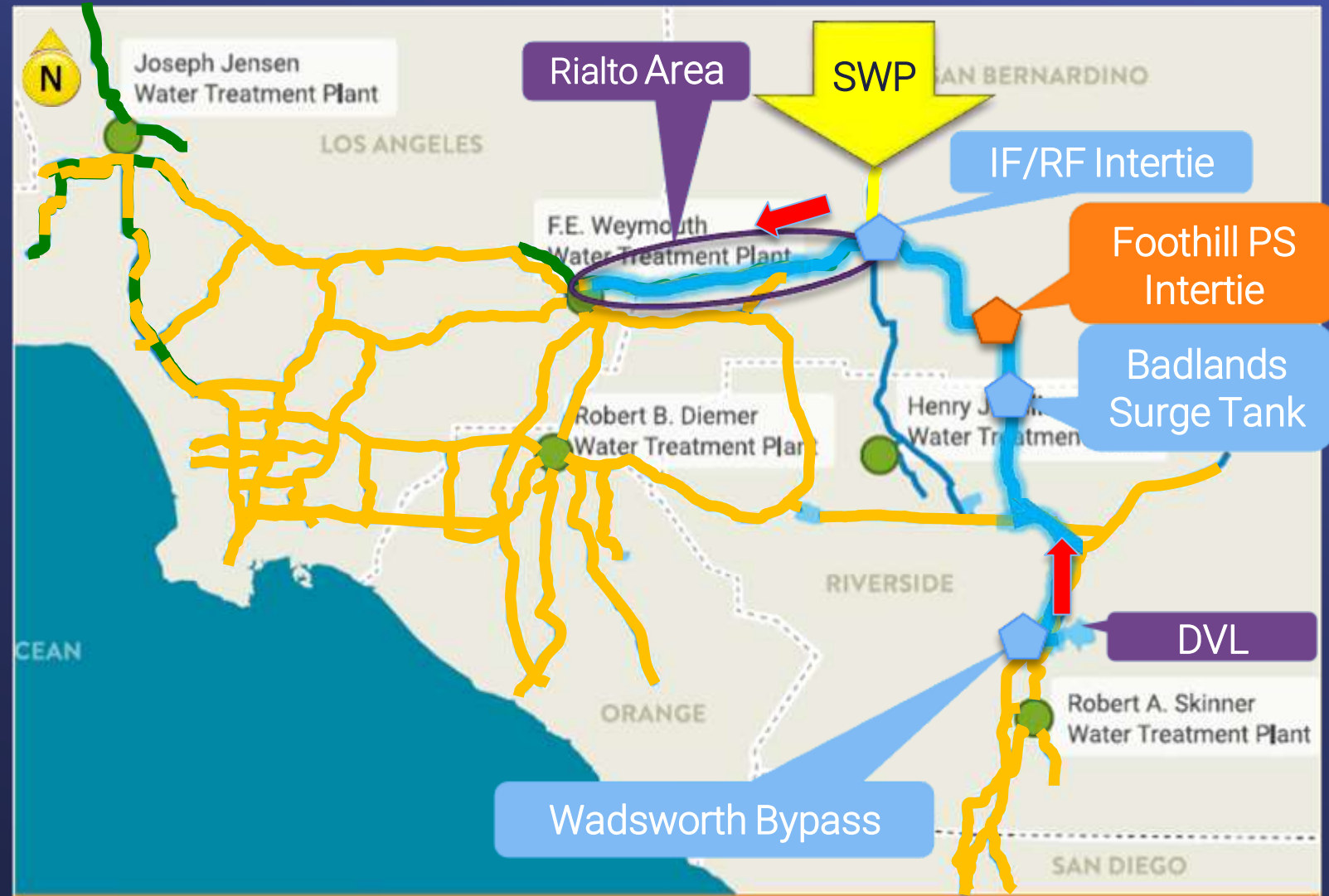
Budgeted

Location Map



Background-Rialto Area Water Supply Reliability Improvements

- Rialto Pipeline service area is dependent on SWP
- Rialto Pipeline Water Supply Improvements
 - Wadsworth Bypass
 - Badlands Tunnel Surge Protection Facility
 - Foothill Pump Station Intertie
 - Inland Feeder Rialto Pipeline Intertie
- Valve procurement recommended at this time



Foothill Pump Station Intertie Valve Procurement

Valve Procurement

- 132-inch valve isolates & directs flow during operation
- Delivery of valve scheduled for mid-2026
 - Fabrication & delivery can take up to two years
- Valve to be installed during Inland Feeder shutdown
 - Under a separate construction contract



Typical Butterfly Valve
& Actuator

Foothill Pump Station Intertie Valve Procurement

Scope of Work – Valve Procurement

- Contractor
 - Furnish & deliver one 132-inch butterfly valve & hydraulic actuator
- Metropolitan
 - Factory fabrication inspection
 - Submittals review
 - Off-load & store valve
 - Contract administration & project management

Foothill Pump Station Intertie Valve Procurement

Alternatives Considered

- Valve Procurement
 - Conical, spherical & butterfly valves considered
 - Conical & spherical valves are larger, more expensive & take longer to fabricate
- Selected Alternative – Butterfly valve
 - Butterfly valves are more appropriate & cost-effective for isolation

Bid Results

Specifications No. 2096

Bids Received

December 19, 2023

No. of Bidders

3

Lowest Responsible Bidder

Vogt Valves Inc.

Low Bid*

\$1,779,174

Range of Other Bids*

\$1,779,174 to \$5,911,000

*No SBE (Small Business Enterprise) participation level set for procurement contract

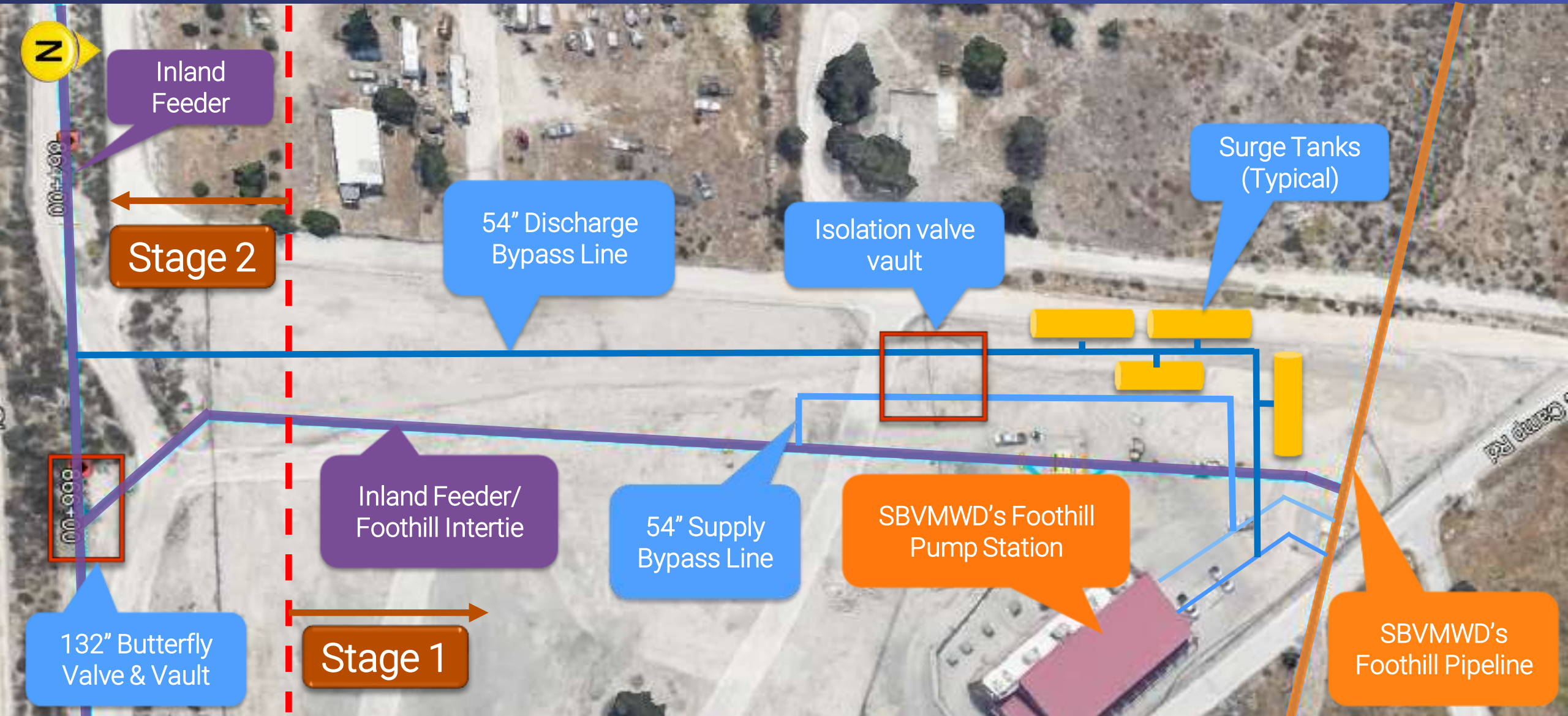
Note: Includes sales and use taxes of 7.75 percent imposed by the state of California

Foothill Pump Station Intertie Final Design

Project Staging

- Sensitive species discovered at construction site
 - Requires Mitigated Negative Declaration (MND) & environmental permits to complete work
 - Board adoption of MND planned for May 2024
- Project to be completed in two stages
 - Stage 1 – Area outside sensitive species habitat
 - Contract award planned for Aug. 2024
 - Stage 2 – Area within sensitive species habitat
 - Obtain environmental permits
 - Award construction contract

Project Staging



Foothill Pump Station Intertie Final Design

HDR – Agreement Amendment

- Agreement authorized in August 2022
- Selected through RFP No. 1305
- Scope of Work
 - Produce plans & specifications
 - Develop engineer's estimate
 - Perform bid phase assistance
 - Increase of \$260,000
- New NTE amount: \$1,560,000
- SBE participation level: 13%

Scope of Work – Stage 2 Final Design

- Metropolitan
 - Prepare design of instrumentation & control systems
 - Review consultant design
 - Provide consultant oversight, environmental support & project management
 - Prepare environmental documents & apply for permits



SBVMWD's Foothill Pump Station



SBVMWD's Surge Mitigation System

Foothill Pump Station Intertie Final Design

Alternatives Considered

- Single Construction
 - One constructing package after CEQA & permit completion
 - Up to two years delay to obtain permit
- Selected Alternative – Two construction packages
 - Expedited schedule
 - Improves drought resiliency for Rialto pipeline service area

Allocation of Funds

Foothill Pump Station Intertie

Metropolitan Labor

Final Design (Stage 2)	\$ 111,000
Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	207,000
Submittals Review, Tech. Support, Record Dwgs.	118,000
Fabrication Inspection & Support	92,000
Force Construction	20,000

Professional/Technical Services

HDR Engineering Inc.	260,000
ESA (Environmental Services)	250,000

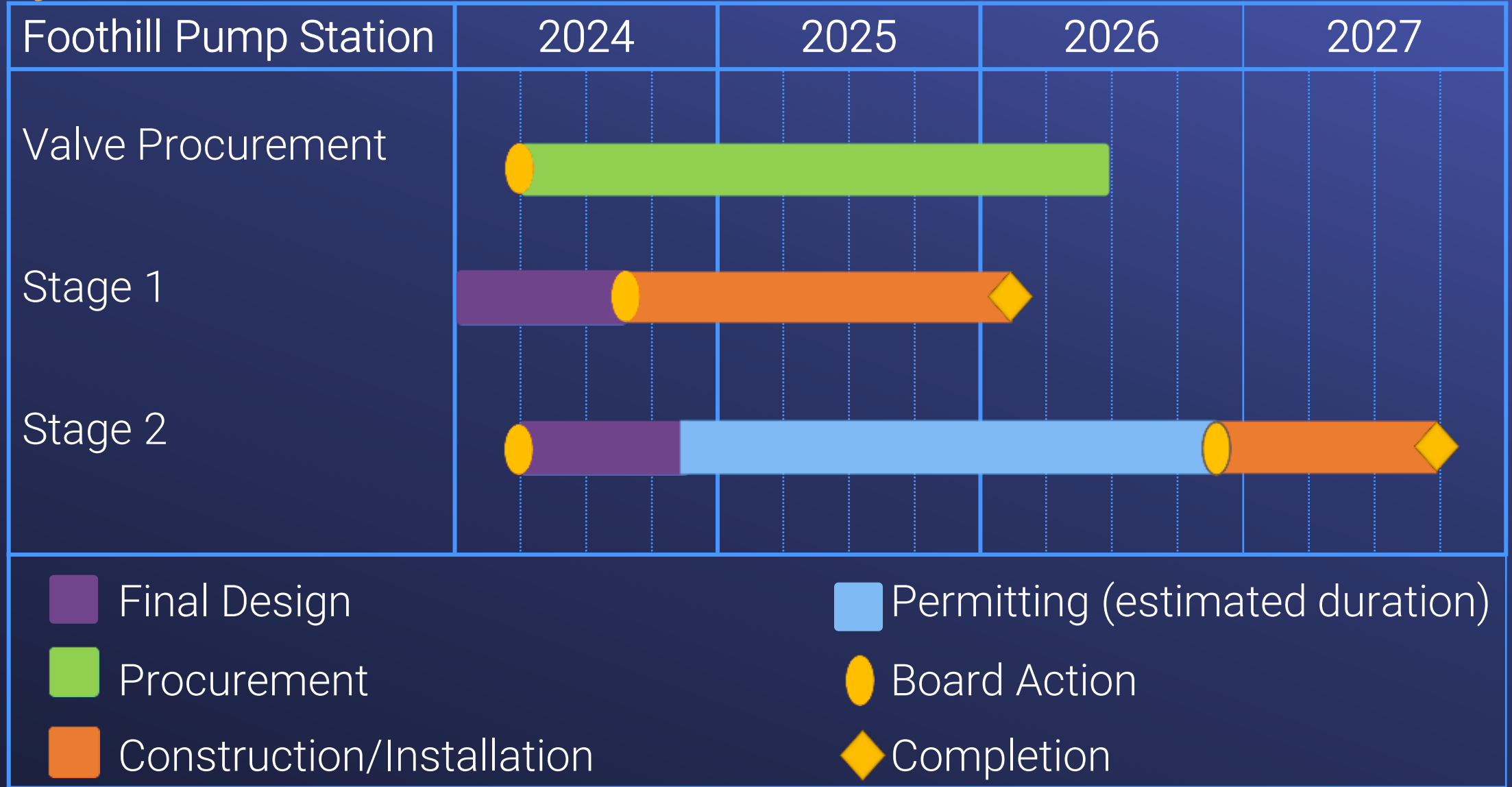
Contracts

Vogt Valves Inc.	1,779,174
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Remaining Budget	112,826
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Total \$ 2,950,000

Project Schedule



Board Options

- Option #1
 - a. Award a \$1,779,174 procurement contract to Vogt Valves Inc. for a 132-inch diameter butterfly valve to be installed at the Foothill Pump Station as part of water supply reliability improvements in the Rialto Pipeline service area; and
 - b. Authorize an increase of \$260,000 to an existing agreement with HDR Engineering Inc. for a new not-to-exceed amount of \$1,560,000 for design of Stage 2 for the Inland Feeder/San Bernardino Valley Municipal Water District Foothill Pump Station Intertie.
- Option #2
Do not proceed with the project at this time.

Staff Recommendation

- Option #1

