



Authorize an Increase in Change Order Authority & an Amendment to an Existing Agreement for Greg Avenue Pump Station Rehabilitation

Engineering & Operations Committee

Item 7-4

May 10, 2021

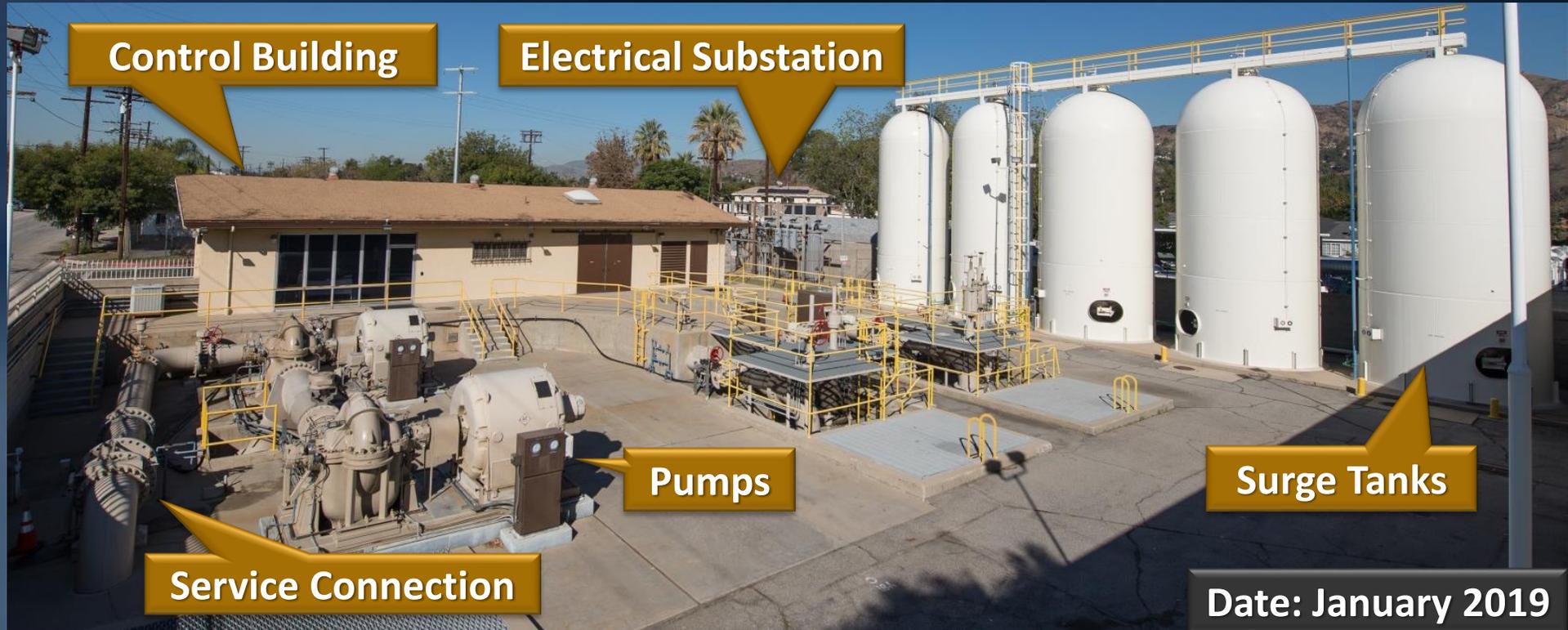
Current Action

- Authorize an increase of \$200,000 to the change order authority for the contract to rehabilitate the Greg Avenue Pump Station
- Authorize an amendment to an agreement for a new not-to-exceed amount of \$1,250,000 for engineering support during construction

Distribution System

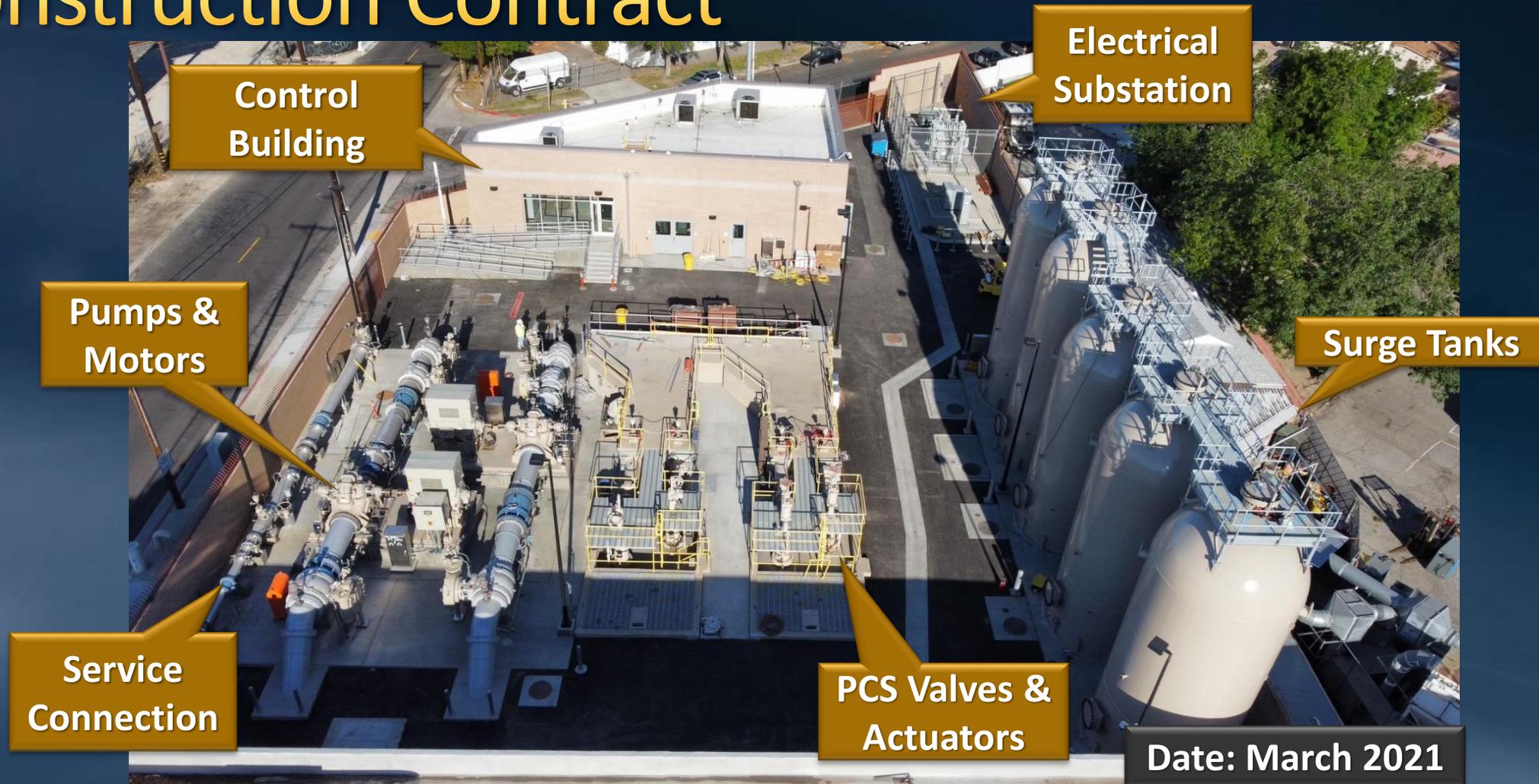


Background



- Pump station constructed in 1960s
- Pumps send CRA water to western areas during drought & Jensen plant outage
- Pump station has deteriorated & required replacement

Construction Contract

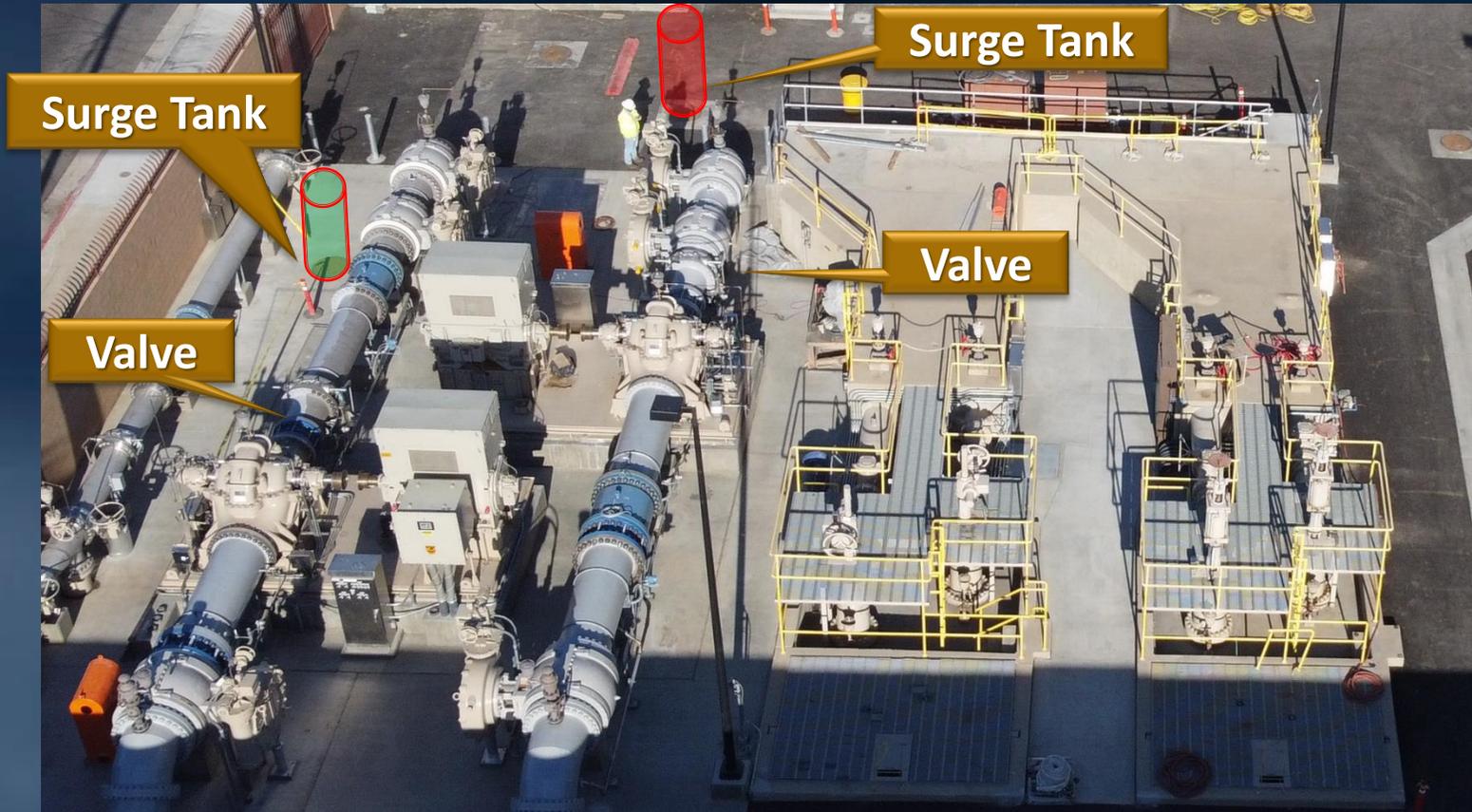


- Feb. 2019 Board Action
 - Awarded J.F. Shea construction contract for \$20,975,000
 - Authorized Black & Veatch agreement for \$900,000

Construction Contract

- Nov. 2020 Board Action
 - Authorized a \$600,000 increase in change order authority
 - Revisions to furnished equipment and a local utility
 - COVID-19 related construction contract delays – Spring 2020
 - Actual on-site conditions differed from original design
- This action addresses:
 - Construction delays due to late delivery of key electrical cabinets
 - COVID-19 plant closure – Winter 2020/2021
 - Additional work required to address pump pressure surge spikes discovered during start-up

Resolution of Start-up Issues



- Mitigate surge pressure conditions due to power failure pump trips
 - Install 300 gallon surge tanks, and modify check valves
 - Assess need to replace check valves with different model

Construction Contract

- Current Board Action
 - Authorize \$200,000 of additional authority
 - Change orders settled to date, approximately \$1,475,000
 - Current authority \$1,648,750
 - New maximum authority \$1,848,750
- Change Order authority chronology
 - Original authority at award of contract: 5% or \$1.049M
 - Initial authority increase Nov. 2020: raised to 7.9% or \$1.649M
 - Proposed authority with this action: raised to 8.8% or \$1.849M

Alternatives Considered

- New construction contract to complete remaining work
 - Increased costs due to administration of new contract
 - Delays on-line date of project
- Utilize MWD Force construction to complete work
 - Risks voiding warranties on new equipment
- Increase change order authority
 - Selected option
 - Cost-effective approach to complete start-up activities
 - Timely completion of work to ensure supply deliveries

Black & Veatch

Agreement Amendment

- Additional scope of work
 - Engineering and technical support for surge mitigation
 - Support for facility start-up and commissioning
 - Operations manuals
 - Record drawings
- Selected under RFQ 1131
- SBE participation level – 18%
- Amendment amount – \$350,000
- NTE amount – \$1,250,000

Alternatives Considered

- Metropolitan staff complete remaining work
 - Would impact other critical CIP projects
 - Less efficient to introduce new staff
- Amend Black & Veatch agreement
 - Selected option
 - Consultant is engineer of record and familiar with project
 - Efficient and timely approach to completing remaining work

Project Schedule

Greg Ave. Pump Station Rehab.	2019	2020	2021
Construction			

 Shutdown

 Milestone

 Construction

 Board Action

Board Options

- Option #1

- Authorize increase of \$200,000 in change order authority for rehabilitation of the Greg Avenue Pump Station, up to an aggregate amount not to exceed \$1,848,750.
- Authorize increase of \$350,000 to the agreement with Black & Veatch for a new not-to-exceed amount of \$1,250,000.

- Option #2

- Do not proceed with an increase to the contract change order authority or the agreement amendment at this time; in-house staff would complete the remaining work.

Staff Recommendations

- Option #1

