



Semiannual CIP Status Report (July – December 2021)

Transportation and Environment Committee

March 7, 2022

Presenter:

David Ohlson – Division Manager, ESD CIP



San José-
Santa Clara
Regional
Wastewater
Facility

Background

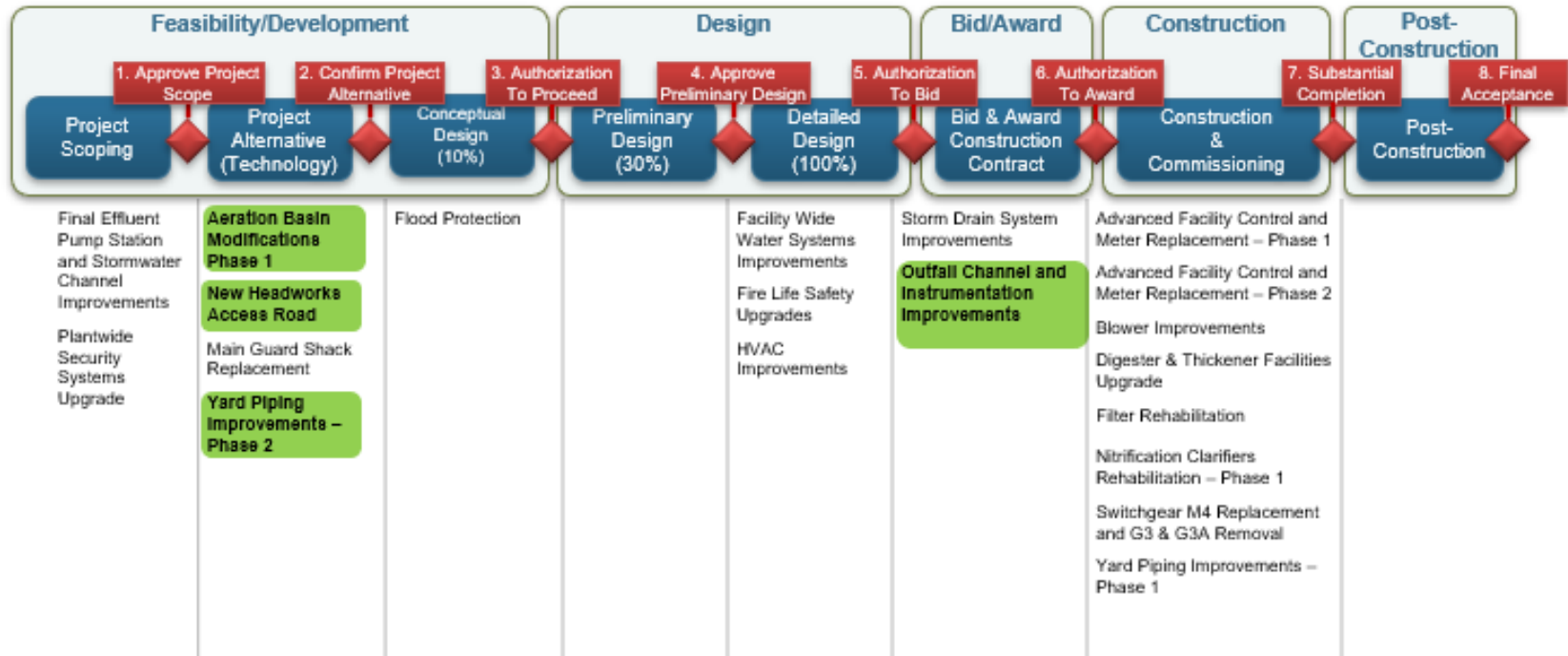
- The San José and Santa Clara City Councils adopted the Plant Master Plan (PMP) in November 2013 and December 2013, respectively.
- The PMP identified more than 100 capital improvement projects totaling over \$2.1 billion to be implemented at the RWF over the next 30 years.
- A validation process was completed in early 2014 to update and prioritize the recommended PMP projects and additional gap projects into 33 projects to be initiated over 10 years.
- Beginning in fiscal year 2014-2015, the validation process was used to inform the five-year CIP and ten-year funding strategy, which are approved by the San José City Council.

Significant Program Activities

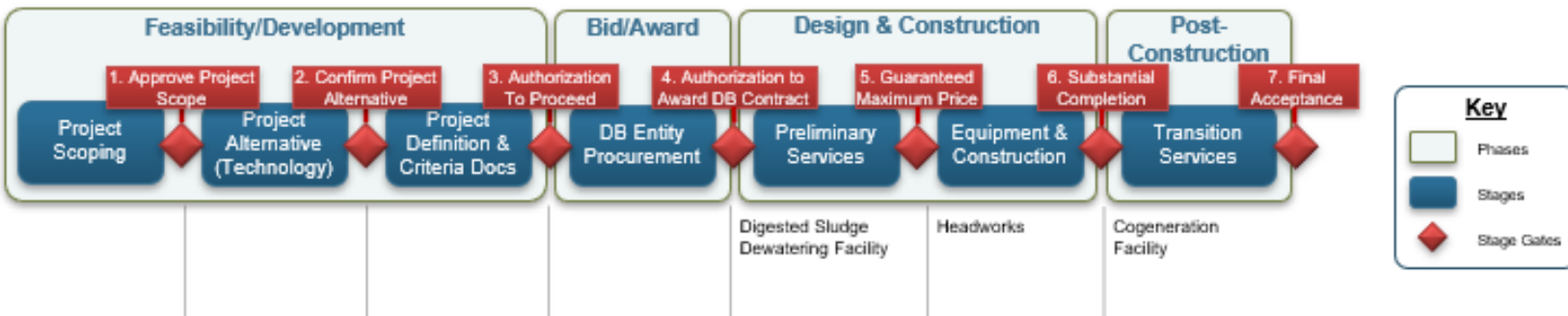
- **Biosolids Disposition Procurement Strategy**
 - RFP for transportation and beneficial use services advertised Nov. 2021
 - Proposals due in February 2022
 - Disposition agreement awards anticipated in coming months
 - Services to begin in FY 2024-25
- **Testing, Startup and Commissioning (TSC)**
 - Two full-time consultant TSC experts brought on early 2021 for support
 - Testing of new equipment and systems ramped up in summer 2021
 - Four concurrent projects in the nitrification area were in TSC
 - Critical TSC support will be needed this summer in key process areas

Program Snapshot: All Projects

Design-Bid-Build Active Projects



Progressive Design-Build Active Projects



Seven Projects in Feasibility/Development

Scoping

- Final Effluent Pump Station and Stormwater Channel Improvements
- Plantwide Security Systems Upgrade

Project Alternatives

- Aeration Basin Modifications – Phase 1
- Main Guard Shack Replacement
- New Headworks Access Road
- Yard Piping Improvements – Phase 2

Conceptual Design

- Flood Protection



- CCTV station of inspection crawler for condition assessment of 96" pipe for Yard Piping Improvements – Phase 2



- Severely corroded steel reinforcing bars at pipe crown

Six Projects in Design and Bid/Award

Detailed Design

- Facility Wide Water Systems Improvement
- Fire Life Safety Upgrades
- HVAC Improvements

Bid & Award

- Outfall Channel and Instrumentation Improvements
- Storm Drain System Improvements

Preliminary Services

- Digested Sludge Dewatering Facility

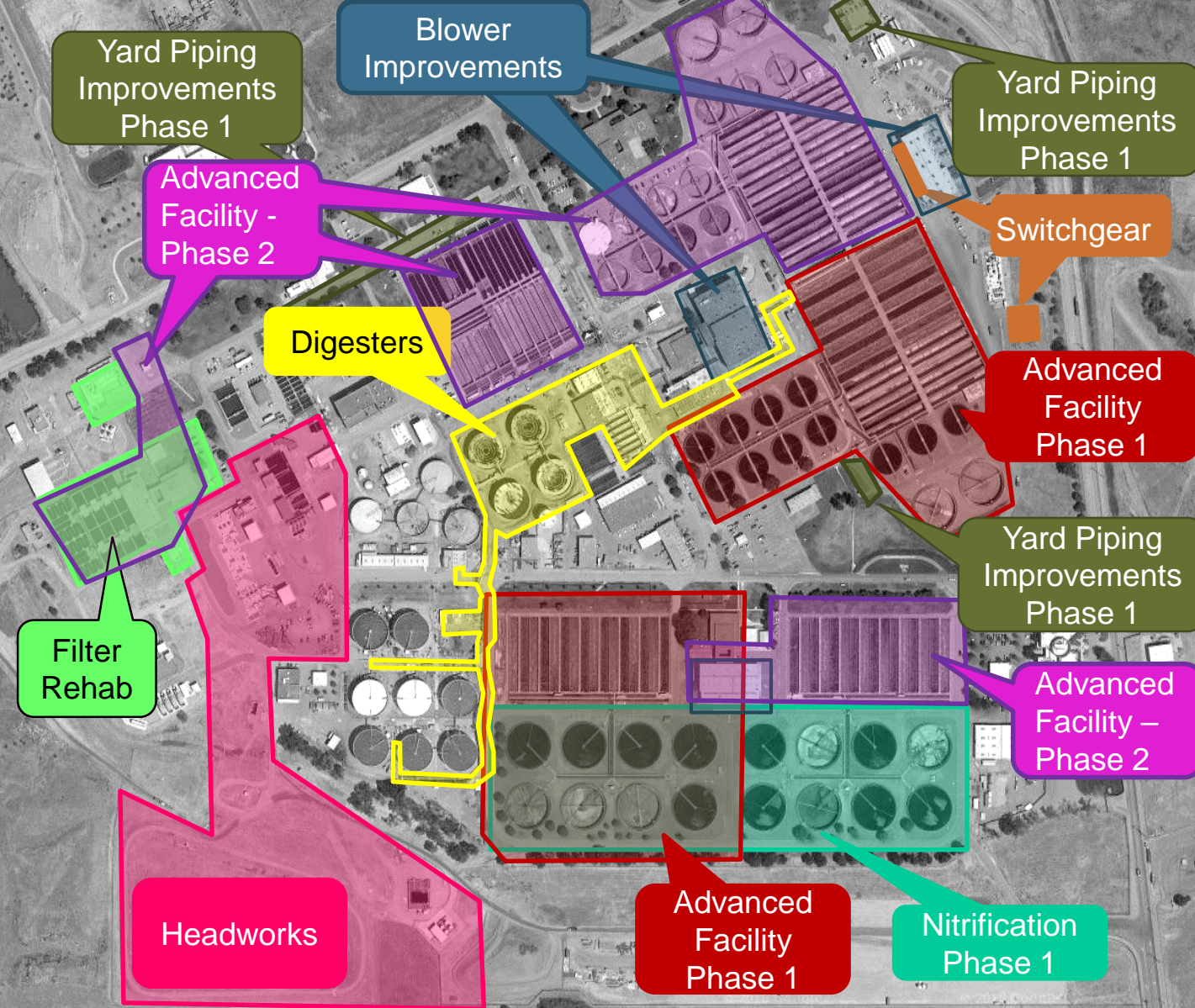


- Site Preparation work for the Digested Sludge Dewatering Facility project

Nine Projects in Construction

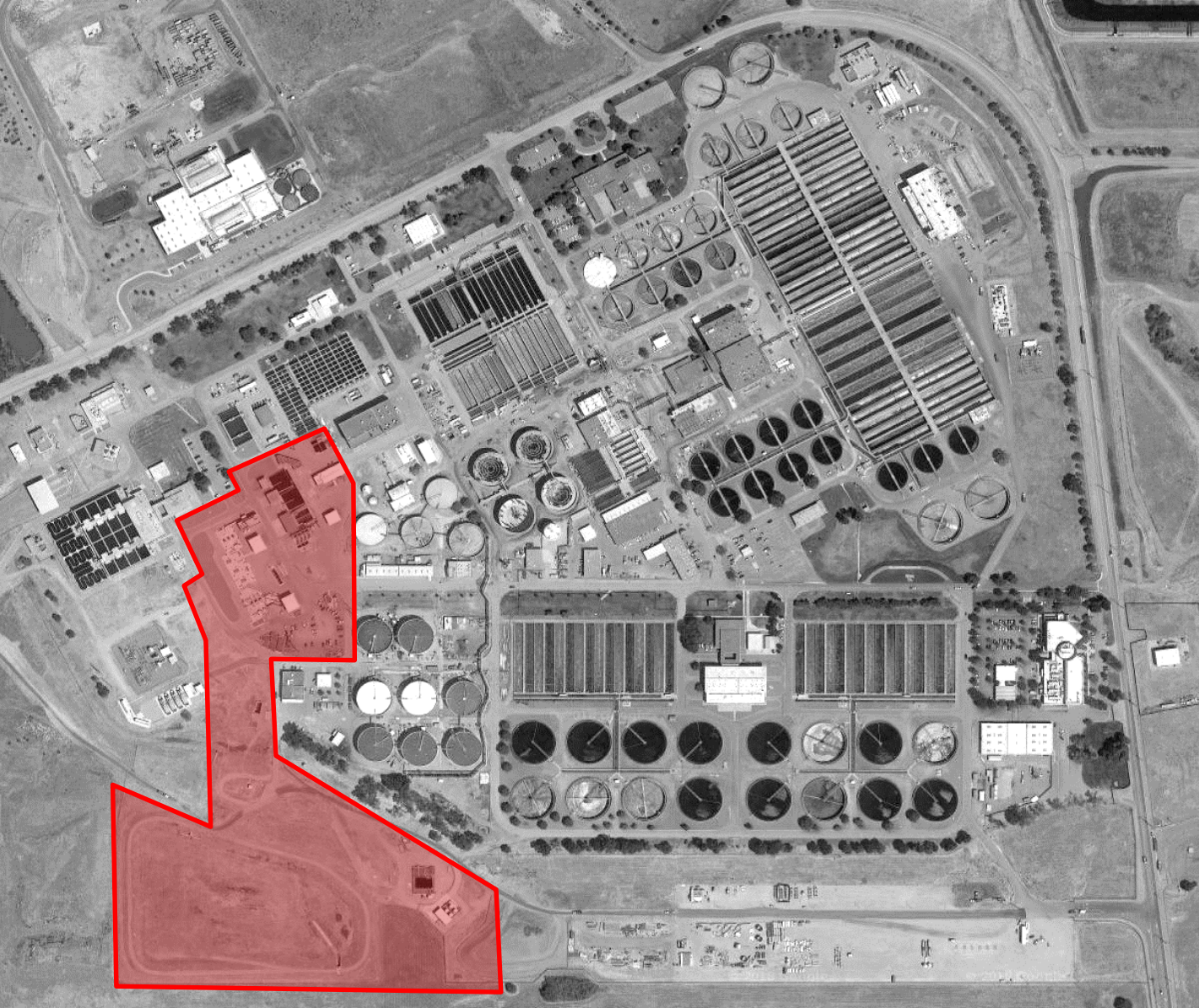
- Advanced Facility Control and Meter Replacement – Phase 1 (**\$5.8m**)
- Advanced Facility Control and Meter Replacement – Phase 2 (**\$7.0m**)
- Blower Improvements (**\$29.5m**)
- Digester and Thickener Facilities Upgrade (**\$107.9m**)
- Filter Rehabilitation (**\$33.3m**)
- Headworks (**\$126.9m**)
- Nitrification Clarifiers Rehabilitation – Phase 1 (**\$26.2m**)
- Switchgear M4 Replacement and G3 & G3A Removal (**\$5.5m**)
- Yard Piping Improvements – Phase 1 (**\$3.1m**)





Nine Projects In Construction

Total Base Construction Value: \$345M



Headworks Project

Construction Value: \$126.8M | Estimated Beneficial Use: Summer 2023

Headworks



- Progress on construction of New Headworks facilities including grit removal, pump station, influent screenings removal, electrical building, emergency overflow basin, and odor control system as of November 2021.

Headworks



- Construction work in the emergency overflow basin



- Installation of a new bar screen

Headworks



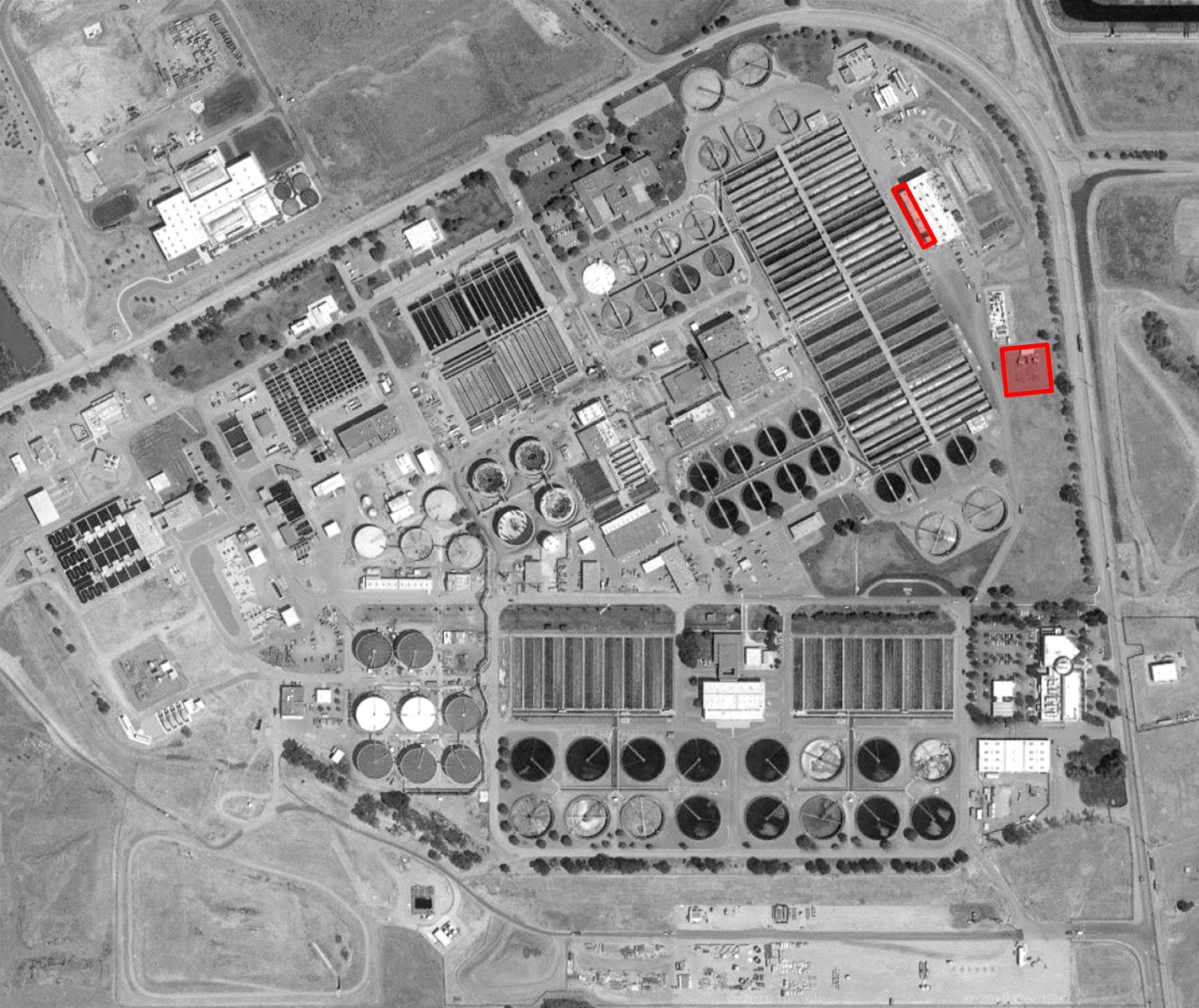
- Installation of 96" pipe



- Realignment of existing Santa Clara pipeline



- Installation of 96" pipe over Santa Clara pipeline



Switchgear M4 Replacement and G3 & G4 Removal

Construction Value: \$5.5M | Estimated Beneficial Use: Winter 2022

Switchgear M4 Replacement and G3 & G4 Removal



- Delivery and installation of outdoor M4 switchgear enclosure

Switchgear M4 Replacement and G3 & G4 Removal



■ Interior of Switchgear enclosure



■ Duct installation and supports

Expected Activities through June 2022

- Reach Substantial Completion on three projects
- Obtain Council approval to execute the Definitive Contract Amendment for Digested Sludge Dewatering Facility project
- Obtain Council approval to award the construction contract for Storm Drain System Improvements project
- Advertise construction contracts for Fire Life Safety Upgrades and HVAC Improvement projects
- Obtain Council approval of a fourth contingency increase for settlement of inefficiency claims for the Digester and Thickener Facilities Upgrade project
- Advertise request for prequalification for Facility Wide Water Systems Improvement