ALAMEDA COUNTY WATER DISTRICT
43885 So. Grimmer Boulevard
Fremont, CA  94538

ENGINEERING & INFORMATION TECHNOLOGY COMMITTEE

AGENDA

Wednesday, November 18, 2020

4:15 p.m.

ACCESSIBLE PUBLIC MEETINGS: Upon request, ACWD will provide written agenda materials in appropriate alternative formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individuals with disabilities to participate in public meetings. Please send a written request at least 72 hours before the meeting to the District Secretary, ACWD, 43885 S. Grimmer Blvd., Fremont, CA 94538, or to gina.markou@acwd.com stating your name, mailing address, phone number, and brief description of the requested materials and preferred alternative format or auxiliary aid or service.


MEMBERS OF THE PUBLIC MAY NOT ATTEND THIS MEETING IN PERSON. DUE TO THE COVID-19 PANDEMIC AND IN ACCORDANCE WITH GOVERNOR NEWSOM'S EXECUTIVE ORDER N-25-20 WHICH SUSPENDS PORTIONS OF THE BROWN ACT, THIS MEETING WILL BE CONDUCTED BY WEBINAR/TELECONFERENCE ONLY.

1. Alameda and Decoto Reservoirs Improvement Projects
   Presenter: Carlos Sempere

2. Update on Alvarado-Niles Pipeline Seismic Improvement Project
   Presenter: Chris Delp

3. Cooperative Agreement with City of Newark for Lindsay Tract Streets and Utilities Improvements
   Presenter: Rekha Ippagunta

4. Cayenta Software Maintenance Agreement Renewal
   Presenter: Ariz Naqvi

5. District Issued Devices for Board Members
   Presenter: Ariz Naqvi and Ed Stevenson

6. Public Comments
Alameda County Water District

Alameda and Decoto Reservoirs Improvement Projects

November 18, 2020
ACWD Reservoirs

Roof/Liner Replacements

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>Built</th>
<th>Roof</th>
<th>Liner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alameda</td>
<td>1972</td>
<td>now</td>
<td>2013</td>
</tr>
<tr>
<td>Decoto</td>
<td>1964</td>
<td>now</td>
<td>now</td>
</tr>
<tr>
<td>Whitfield</td>
<td>1985</td>
<td>-</td>
<td>n/a</td>
</tr>
<tr>
<td>Mayhew</td>
<td>1965</td>
<td>2014</td>
<td>2009</td>
</tr>
<tr>
<td>Middlefield</td>
<td>1958</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>Patterson</td>
<td>1962</td>
<td>-</td>
<td>2006</td>
</tr>
</tbody>
</table>
Schedule

- **Alameda Reservoir**
  - Design: Jan. 2021 – June 2022
  - Construction: Nov. 2022 – June 2023
  - Solar Power: late 2023

- **Decoto Reservoir**
  - Design: July 2022 – June 2023
  - Construction: Nov. 2023 – June 2024
  - Solar Power: late 2024
Design Criteria

Seismic Criteria
- Seismic performance objectives in accordance with ASCE 41-17
- Reservoirs are critical for firefighting after an earthquake
- Structural: “Damage Control”
  - minor damage acceptable in design event,
- Non-structural: “Operational”
  - valves, ventilation, lighting, etc.
    must remain functional

Materials
- NSF 61-certified
- Resistant to corrosion
  - Timber, not steel
Alameda Reservoir

Scope of Work
- Roof & roof framing
- Seismic improvements
- Active ventilation
- Lighting
- CEQA
- Drain valve
Decoto Reservoir

Scope of Work

- Roof & roof framing
- Seismic improvements
- Active ventilation
- Lighting
- CEQA
- Drain valve
- Altitude & inlet/outlet valves
- Liner
- DSOD review

Blue: scope specific to Decoto
Next Steps

• Issued joint RFP for Alameda & Decoto
• Proposals arrived 11/16/2020
• Will recommend that Board award PSA in December
Alameda County Water District

Alvarado-Niles Pipeline Seismic Improvement Project

November 18, 2020

Engineering and Information Technology Services Committee Update
Phase 1 Project Location

Legend
- Alvarado-Niles Pipeline
Project Description

- First of two phases – Replacement of 1.7 miles of pipeline which was installed between 1950 and 1970.
- Installation of 14-inch & 16-inch welded steel pipe
- Installation of new service laterals; fire hydrant assemblies; and various valves and appurtenances.
- Installation of a new cathodic protection system, which will protect the new steel main from corrosion.
- Installation of 21 system connections to the existing water mains
Project Description

• Project awarded in February 2020
• Award value: $11,316,775
• Original completion: end of November
• Current completion: end of January
Current Status

Main line installation approximately 80% complete.

Current change orders 4.8% (~$500k)

- 2.2% Unforeseen conditions
- 2.2% Contingency planning
Photos
Photos
Photos
Photos
City of Newark Lindsay Tract
Streets and Utilities
Improvements

Engineering & Information Technology Committee
November 18, 2020
Background

• CON is planning to reconstruct Lindsay Tract streets that are currently lacking adequate drainage facilities, curb, and gutters

• The project includes street construction, sidewalks, storm drain improvements, and paving incorporating green infrastructure

• ACWD water mains in the Lindsay Tract area are approaching the end of their useful life
The customers are served through existing asbestos cement pipelines:
- 4 inch to 8 inch in diameter
- ~6,700 ft of pipeline
- Age: 60 to 68 years
- System includes service laterals, water meters, fire hydrants, valves, and appurtenances
- Many segments are in the top 5 percentile
- Recorded leak history
Opportunities for Collaboration

• ACWD explored the opportunity to partner with CON

• ACWD proposed a joint project
  – Combine street improvements with water pipeline infrastructure replacements

• A draft agreement for the design and construction of the joint project is in review
Joint project is beneficial to all parties and customers

• Realize economies of scale

• Mitigate disruption to the newly paved City streets and repaving

• Minimize traffic impacts, service outages, noise and other construction issues

• Simplify coordination effort between agencies

• Provides reliable water supply to Newark customers
Agreement Highlights

• Design Services: Issue joint Request for Proposal for proposed streets and water main improvements

• Permits: City to administer environmental and construction permits

• Construction: Join project bids that include ACWD work as alternate bid items

• Administration fee: 10% of the actual cost of ACWD work
Background & Current State

- Devices Issued to Board Members
  - Microsoft Surface
    - Paperless Board Meetings
    - Conferences
    - Email
  - iPhones
    - Customer & Staff Contact
    - Email
Boardroom A/V Improvements

- All-in-One PCs at Dais
  - 22-24” Touchscreen Monitor
  - Fully functional PC
  - Articulated stand
  - Board Agenda
  - Presentations
  - Email
  - Web Browsers/Internet
Background (continued)

- Both the Association of California Water Agencies and ACWD both approved the proposed water rate.
- In 2016, SB150 (Munoz) established the Safe and Afford Water Fund
  - Requires the SWRCB to provide assistance and funding of safe drinking water systems for disadvantaged communities in California
  - Provides up to 5 ppm per year of funding, mostly from the Greenhouse Gas Reduction Fund (GGRF)
Issues with Surface Devices

- Windows security and software updates
  - Requires devices be left with IT for updates
  - Delay in applying security patches
  - Login and Password Reset
Proposed Future State

- Boardroom PCs for paperless Board meetings
- District issued & managed iPhones for customer & staff contact and email
- Loaner Microsoft Surface or laptop for conferences
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1. Quarry Lakes Parkway Project Update
   Presenter: Michelle Myers

2. Public Comments
Quarry Lakes Parkway
Project Update
Lines drawn to show approximate proposed phases, source City of Union City’s website. ACWD’s Property lines are also approximate.
*Yellow proposed alignment is from the former East-West Connector Project, therefore is subject to change.
Questions
Thank you