

October 6, 2023

MEETING NOTICE**SANTA CLARA VALLEY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM COMMITTEE**

Members of the Capital Improvement Program Committee:

Director Nai Hsueh, Chairperson
Director Tony Estremera, Vice-Chairperson
Director Jim Beall, Committee Member

Staff Support of the Capital Improvement Program Committee:

Rick L. Callender, Esq., Chief Executive Officer
Melanie Richardson, Asst. Chief Executive Officer
Bhavani Yerrapotu, Deputy Operating Officer of
Watersheds, Design and Construction Unit
Darin Taylor, Chief Financial Officer
Aaron Baker, Chief Operating Officer –Water Utility
Chris Hakes, Chief Operating Officer -Watersheds
Rachael Gibson, Chief of External Affairs
Tina Yoke, Chief Administrative Officer
Leslie Orta, Senior Assistant District Counsel
Audrey Beaman, Assistant District Counsel
Sam Bogale, Deputy Operating Officer
Tony Ndah, Deputy Administrative Officer
Martin Lugo, Deputy Administrative Officer
John Bourgeois, Deputy Operating Officer
Jennifer Codianne, Deputy Operating Officer
Emmanuel Aryee, Deputy Operating Officer
Vincent Gin, Deputy Operating Officer
Gregory Williams, Deputy Operating Officer
Patrice McElroy, Deputy Administrative Officer
Cecil Lawson, Deputy Administrative Officer
Lisa Bankosh, Assistant Officer
Kirsten Struve, Assistant Officer
Bryant Welch, Labor Relations Officer

David Montenegro, Principal Construction
Contracts Administrator
Erin Baker, Asset Management Manager
Charlene Sun, Treasure & Debt Manager
Jessica Collins, Business Planning &
Analysis Unit Manager
Enrique De Anda, Budget Manager
Jennifer Martin, Program Administrator
Linh Hoang, Communications Manager
Sarah Berning, Program Administrator
Phyllis Chen, Senior Management Analyst
Alison Phagan, Senior Management Analyst
Stacy Klopfer, Senior Management Analyst
Agnes Lee, Senior Management Analyst
Chenlei Yao, Senior Management Analyst
Feliser Lee, Senior Management Analyst
Timothy Chan, Management Analyst II
Kristie Resendez, Management Analyst II

A Santa Clara Valley Water District **Special Capital Improvement Program Committee meeting** has been scheduled to occur at **3:00 p.m.** on Monday, October 16, 2023 at the Headquarters Building Boardroom located at the Santa Clara Valley Water District, 5700 Almaden, San Jose, CA.

Members of the public may join at: <https://valleywater.zoom.us/j/94158013374>.

The meeting agenda and corresponding materials are located on the Committee's website at: <https://www.valleywater.org/how-we-operate/committees/board-committees>.

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Santa Clara Valley Water District Capital Improvement Program Committee Meeting

Headquarters Building Boardroom
5700 Almaden Expressway, San Jose, CA 95118

Join Zoom Meeting
<https://valleywater.zoom.us/j/94158013374>

SPECIAL MEETING AGENDA

Monday, October 16, 2023
3:00 PM

District Mission: Provide Silicon Valley safe, clean water for a healthy life, environment and economy.

BOARD COMMITTEE MEMBERS:

Committee Chair:
Director Nai Hsueh, District 5

Committee Vice Chair:
Director Tony Estremera, District 6

Committee Member:
Director Jim Beall, District 4

During the COVID-19 restrictions, all public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body, will be available to the public through the legislative body agenda web page at the same time that the public records are distributed or made available to the legislative body. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to participate in the legislative body's meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

COMMITTEE LIAISON:
Jessica Collins

COMMITTEE CLERK: Dave Leon
(COB Liaison)
Assistant Deputy Clerk II
408-630-2006
davidleon@valleywater.org
www.valleywater.org

Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.

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Santa Clara Valley Water District
Capital Improvement Program Committee

SPECIAL MEETING
AGENDA

Monday, October 16, 2023

3:00 PM

Headquarters Building Boardroom
5700 Almaden Expressway, San Jose, CA 95118

Join Zoom Meeting:
<https://valleywater.zoom.us/j/94158013374>

IMPORTANT NOTICES AND PARTICIPATION INSTRUCTIONS

Santa Clara Valley Water District (Valley Water) Board of Directors/Board Committee meetings are held as a “hybrid” meetings, conducted in-person as well as by telecommunication, and is compliant with the provisions of the Ralph M. Brown Act.

To maximize public safety while still maintaining transparency and public access, members of the public have an option to participate by teleconference/video conference or attend in-person. To observe and participate in the meeting by teleconference/video conference, please see the meeting link located at the top of the agenda. If attending in-person, you are required to comply with Ordinance 22-03 - AN ORDINANCE OF THE SANTA CLARA VALLEY WATER DISTRICT SPECIFYING RULES OF DECORUM FOR PARTICIPATION IN BOARD AND COMMITTEE MEETINGS located at <https://s3.us-west-2.amazonaws.com/valleywater.org.if-us-west-2/f2-live/s3fs-public/Ord.pdf>

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee during public comment or on any item listed on the agenda, may do so by filling out a Speaker Card and submitting it to the Clerk or using the “Raise Hand” tool located in the Zoom meeting application to identify yourself in order to speak, at the time the item is called. Speakers will be acknowledged by the Board Chair in the order requests are received and granted speaking access to address the Board.

- Members of the Public may test their connection to Zoom Meetings at: <https://zoom.us/test>
- Members of the Public are encouraged to review our overview on joining Valley Water Board Meetings at: <https://www.youtube.com/watch?v=TojJpYCxXm0>

Valley Water, in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access and/or participate in Valley Water Board of Directors/Board Committee meetings to please contact the Clerk of the Board’s office at (408) 630-2711, at least 3 business days before the scheduled meeting to ensure that Valley Water may assist you.

This agenda has been prepared as required by the applicable laws of the State of California, including but not limited to, Government Code Sections 54950 et. seq. and has

not been prepared with a view to informing an investment decision in any of Valley Water's bonds, notes or other obligations. Any projections, plans or other forward-looking statements included in the information in this agenda are subject to a variety of uncertainties that could cause any actual plans or results to differ materially from any such statement. The information herein is not intended to be used by investors or potential investors in considering the purchase or sale of Valley Water's bonds, notes or other obligations and investors and potential investors should rely only on information filed by Valley Water on the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System for municipal securities disclosures and Valley Water's Investor Relations website, maintained on the World Wide Web at <https://emma.msrb.org/> and <https://www.valleywater.org/how-we-operate/financebudget/investor-relations>, respectively.

Under the Brown Act, members of the public are not required to provide identifying information in order to attend public meetings. Through the link below, the Zoom webinar program requests entry of a name and email address, and Valley Water is unable to modify this requirement. Members of the public not wishing to provide such identifying information are encouraged to enter "Anonymous" or some other reference under name and to enter a fictional email address (e.g., attendee@valleywater.org) in lieu of their actual address. Inputting such values will not impact your ability to access the meeting through Zoom.

Join Zoom Meeting:
<https://valleywater.zoom.us/j/94158013374>
Meeting ID: 94158013374
Join by Phone:
1 (669) 900-9128, 94158013374#

1. CALL TO ORDER:

1.1. Roll Call.

2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA.

Notice to the public: Members of the public who wish to address the Board/Committee on any item not listed on the agenda may do so by filling out a Speaker Card and submitting it to the Clerk or using the "Raise Hand" tool located in the Zoom meeting application to identify yourself to speak. Speakers will be acknowledged by the Board/Committee Chair in the order requests are received and granted speaking access to address the Board/Committee. Speakers' comments should be limited to three minutes or as set by the Chair. The law does not permit Board/Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Board/Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Board/Committee may take action on any item of business appearing on the posted agenda.

3. APPROVAL OF MINUTES:

- 3.1. Approval of September 18, 2023 Capital Improvement Program Committee Minutes. [23-0484](#)
- Recommendation: Approve the minutes.
- Manager: Candice Kwok-Smith, 408-630-3193
- Attachments: [Attachment 1: 09/18/23 CIP Committee Meeting Minutes](#)
- Est. Staff Time: 5 Minutes

4. REGULAR AGENDA:

- 4.1. Receive and Discuss Information Regarding the Status of Capital Projects in the Feasibility and Planning Phase. [23-0986](#)
- Recommendation: Receive and discuss information regarding the status of capital projects in the feasibility and planning phase.
- Manager: Emmanuel Aryee, 408-630-3074
Bhavani Yerrapotu, 408-630-2735
Lisa Bankosh, 408-630-2618
Ryan McCarter, 408-630-2983
Vincent Gin, 408-630-2633
Tony Ndah, 408-630-2208
- Attachments: [Attachment 1: Feasibility and Planning Report](#)
- Est. Staff Time: 15 minutes
- 4.2. Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract. [23-0999](#)
- Recommendation: Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract.
- Manager: Ryan McCarter, 408-630-2983
- Attachments: [Attachment A: Government Code § 84308](#)
[Attachment 1: Construction Contract Change Orders Status](#)
[Attachment 2: Construction Contract Financial Status](#)
[Attachment 3: September 2023 CIP Committee ADTP Change Or](#)
- Est. Staff Time: 10 minutes
- 4.3. Receive Information on Upcoming Consultant Agreement Amendments for Capital Projects. [23-0885](#)
- Recommendation: Receive information on upcoming consultant agreement amendments for capital projects.
- Manager: Emmanuel Aryee, 408-630-3074
Ryan McCarter, 408-630-2983
- Est. Staff Time: 5 minutes

- 4.4. Receive Update on the Palo Alto Flood Basin Tide Gate Structure Replacement Project, Project No. 10394001, (Palo Alto, District 7). [23-1000](#)
- Recommendation: Receive update on the Palo Alto Flood Basin Tide Gate Structure Replacement Project, Project No. 10394001, (Palo Alto, District 7).
- Manager: Bhavani Yerrapotu, 408-630-2735
- Attachments: [Attachment 1: PowerPoint](#)
[Attachment 2: Map](#)
- Est. Staff Time: 10 minutes
- 4.5. Overview of the Annual Capital Improvement Program Process and Integrated Financial Planning Schedule for Capital Projects, and Review of the Currently Unfunded Projects. [23-0984](#)
- Recommendation: A. Receive overview of the Annual Capital Improvement Program Process and Integrated Financial Planning Schedule;
B. Review list of Currently Unfunded Capital Projects; and
C. Provide feedback as necessary.
- Manager: Luz Penilla, 408-630-2228
- Attachments: [Attachment 1: PowerPoint](#)
[Attachment 2: Initially Validated/Unfunded Projects](#)
- Est. Staff Time: 15 minutes
- 4.6. Review 2023 Capital Improvement Program Committee Work Plan. [23-0985](#)
- Recommendation: Review the 2023 Capital Improvement Program Committee Draft Work Plan and make adjustments, as necessary.
- Manager: Candice Kwok-Smith, 408-630-3193
- Attachments: [Attachment 1: 2023 CIP Committee Work Plan](#)
- Est. Staff Time: 5 minutes
- 5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.**
This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.
- 6. ADJOURN:**
- 6.1. Adjourn to Regular Meeting at 11:00 a.m. on November 13, 2023.



Santa Clara Valley Water District

File No.: 23-0484

Agenda Date: 10/16/2023

Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM **Capital Improvement Program Committee**

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A)

SUBJECT:

Approval of September 18, 2023 Capital Improvement Program Committee Minutes.

RECOMMENDATION:

Approve the minutes.

SUMMARY:

In accordance with the Ralph M. Brown Act, a summary of Committee discussions, and details of all actions taken by the Capital Improvement Program Committee, during all open and public Committee meetings, is transcribed and submitted to the Committee for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into the Committee's historical record archives and serve as the official historical record of the Committee's meeting.

ATTACHMENTS:

Attachment 1: 09/18/23 CIP Committee Meeting Minutes

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

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CAPITAL IMPROVEMENT COMMITTEE MEETING

DRAFT MINUTES

**REGULAR MEETING
MONDAY, September 18,
2023
11:00 AM**

(Paragraph numbers coincide with agenda item numbers)

1. CALL TO ORDER:

A regular meeting of the Santa Clara Valley Water District (Valley Water) Capital Improvement Committee (Committee) was called to order in the Valley Water Headquarters Building Boardroom at 5700 Almaden Expressway, San Jose, California, and by Zoom teleconference, at 11:01 a.m.

1.1 Roll Call.

Committee members in attendance were District 4 Director Jim Beall, District 6 Vice Chairperson Tony Estremera and District 5 Director Nai Hsueh, Chairperson presiding, constituting a quorum of the Committee.

Staff members in attendance were: Joseph Aranda, Emmanuel Aryee, Salam Baqleh, Aaron Baker, Audrey Beaman, Wade Blackard, Sam Bogale, James Bohan, John Bourgeois, Glenna Brambill, Lisa Bankosh, Sarah Berning, Jessica Collins, Enrique De Anda, Adelina Del Real, Meenakshi Ganjoo, Alexander Gordon, Christopher Hakes, Katrina Holden, Michele King, Candice Kwok-Smith, Emelia Lamas, Cecil Lawson, Dave Leon, Becky Manchester, Ryan McCarter, Patrice McElroy, Lizzie Mercado, Dave Montenegro, Carmen Narayan, Tony Ndah, Julianne O'Brien, Carlos Orellana, Leslie Orta, Luz Penilla, Alison Phagan, Mike Potter, Melanie Richardson, Mario Rivas, Don Rocha, Amandeep Saini, Diahann Soleno, Kirsten Struve, Darin Taylor, Odilia Teixeira, Gregory Williams, Jing Wu, Bhavani Yerrapotu, Lydia You, and Tina Yoke.

Public in attendance were: XXX-XXX-8214, Alicia, Ros Beckensten, Molly Culton, Jan Davel, Rebecca Eisenberg, Barbara Keegan, Kristie, My, Rick, and George Skiles (Sjoberg Evashenk Consulting).

2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA:

Chairperson Hsueh declared time open for public comment on any item not on the agenda. There was no one who wished to speak.

3. APPROVAL OF MINUTES:

3.1. Approval of August 21, 2023 Capital Improvement Program Committee Meeting Minutes.

Recommendation: Approve the minutes.

The Committee considered the attached minutes of the August 21, 2023 Committee meeting.

Public Comments: None.

It was moved by Vice Chairperson Estremera and seconded by Director Beall, and unanimously carried that the minutes be approved.

Regular Agenda:

4.1. Review and Discuss the Capital Project Monitoring – Construction Report.

Recommendation: Receive and discuss information regarding the status of capital projects in the construction phase.

Emmanuel Aryee, Ryan McCarter, Bhavani Yerrapotu, and Alexander Gordon reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1 were reviewed by staff per the row and Deputy's initials as follows: Emmanuel Aryee reviewed rows marked EA, Ryan McCarter reviewed rows marked RM, Bhavani Yerrapotu reviewed rows marked BY, and Alexander Gordon reviewed rows marked AG.

Emmanuel Aryee, Ryan McCarter, Bhavani Yerrapotu, Alexander Gordon, Aaron Baker, Luz Penilla, and Christopher Hakes were available to answer questions.

Public Comments: None.

The Committee received the information, took no formal action, and noted the following:

- The Committee requested that staff send the construction contract contingency report to the Board of Directors with a note that staff will explore avenues for returning unused contingency funds to the general fund to expedite upcoming construction projects.

4.2. Receive Information Regarding Santa Clara Valley Water District's Construction Contract Pre-Award and Post-Award Administrative Consultant Agreement Administrative Processes and Improvements.

Recommendation: Receive information regarding Santa Clara Valley Water District's construction contract pre-award and post-award consultant agreement administrative processes and improvements.

Tony Ndah reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1, and was available to answer questions.

Public Comments: None.

The Committee received the information, took no action, and noted the following:

- The Committee requested that staff report back to the Committee with a more detailed verification process for construction contractors and professional consultants.

Chairperson Hsueh moved the agenda to Item 4.4.

4.4. Water Supply Capital Workshop to Review the Capital Validation and Evaluation Processes, Review the Funding Filters for Prioritization, Introduce New Capital Funding Categories, and Provide an Overview of Capital Projects Included in the Capital Improvement Program (CIP) Fiscal Years (FY) 2024-28 Five-Year Plan Funded by the Water Utility Enterprise Fund (Fund 61).

Recommendation: Receive information and provide feedback, as necessary.

Jessica Collins reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1, and was available to answer questions.

Public Comments: None.

The Committee received the information, took no formal action, and noted the following:

- The Committee requested that staff update the PowerPoint presentation and include the summary table that shows external funding before the report to the Board on September 19, 2023.

Chairperson Hsueh moved the agenda to Item 4.3.

4.3. Receive and Discuss 2023 Capital Improvement Program Process Performance Audit Report with Management's Response.

Recommendation: Receive and discuss 2023 Capital Improvement Program (CIP) Process Performance Audit Report with Management's response.

George Skiles reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1.

George Skiles and Luz Penilla were available to answer questions.

Public Comments: None.

The Committee received the information, took no formal action, and noted the following:

The Committee requested that staff add a supplement to the audit that shows the differences between Valley Water, State of California, and national construction cost indexes.

Chairperson Hsueh moved the agenda to Item 4.5.

4.5 Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

Recommendation: Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

The item was held to October 16, 2023 at the request of Chairperson Hsueh.

4.6 Receive Information on Upcoming Consultant Agreement Amendments for Capital Projects.

Recommendation: Receive information on upcoming consultant agreement amendments for capital projects.

Christopher Hakes reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1, and was available to answer questions.

Public comments: None

The Committee received the information, took no formal action, and noted the following:

- The Committee requested that staff add all relevant information to future agenda memos relating to timeline constraints, additional survey work, or reasons for extensions.

4.7 Review 2023 Capital Improvement Program Committee Work Plan.

Recommendation: Review the 2023 Capital Improvement Program Committee Draft Work Plan and make adjustments, as necessary.

The Committee considered this Item without a staff presentation.

Public Comments: None.

The Committee received the information and noted the following:

- The Headquarters Operations Building Planning report will not be presented at the October Committee meeting.
- The Committee will begin its review of the next five-year CIP process at the October Committee meeting.
- Chairperson Hsueh requested that staff add a presentation relating to the climate change action plan to the Committee work plan.

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS:

This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

The Committee confirmed with Dave Leon their request for staff to follow up on the previously noted briefings.

6. Adjourn:

6.1. Adjourn to Regular Meeting at 11:00 a.m. on September 18, 2023.

Chairperson Hsueh adjourned the meeting at 1:26 p.m. to the regular meeting at 11:00 a.m. on October 16, 2023.

Dave Leon
Assistant Deputy Clerk II

Date Approved:

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Santa Clara Valley Water District

File No.: 23-0986

Agenda Date: 10/16/2023

Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM **Capital Improvement Program Committee**

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive and Discuss Information Regarding the Status of Capital Projects in the Feasibility and Planning Phase.

RECOMMENDATION:

Receive and discuss information regarding the status of capital projects in the feasibility and planning phase.

SUMMARY:

The CIP Committee's 2023 Workplan includes monitoring of capital projects during all phases of delivery. Staff will prepare a list of active projects to submit to the Committee each month and will provide detailed information on those where potential and/or significant issues have been identified. The projects presented for discussion will be organized by phases: feasibility/planning; design/permitting; and construction. Staff will present projects to the CIP Committee for review one phase at a time. Projects currently in the feasibility/planning phase are being presented this month.

Attachment 1 is a list of projects in the feasibility/planning phase. A verbal report will be provided at the meeting with more detailed information about recent developments as requested by the Committee.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: Feasibility and Planning Report

UNCLASSIFIED MANAGER:

Emmanuel Aryee, 408-630-3074

Bhavani Yerrapotu, 408-630-2735

Lisa Bankosh, 408-630-2618

Ryan McCarter, 408-630-2983

Vincent Gin, 408-630-2633

Tony Ndah, 408-630-2208

Capital Project Monitoring - October 2023

Feasibility and Planning Phase				
Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues	Deputy's Initials
Water Supply				
1	91084019	Dam Seismic Stability Evaluation	Seismic stability evaluations for Coyote, Chesbro and Uvas Dams are on track for completion in December 2023. Spillway evaluations for Lenihan and Stevens Creek Dams are on track, and have been submitted for Division of Safety of Dams (DSOD) review.	RM
2	92C40357	FAHCE Implementation	Fish and Aquatic Habitat Collaborative Effort (FAHCE) Phase 1 measures for Coyote Creek were incorporated into the Anderson Dam Seismic Retrofit Project (ADSRP) Draft Environmental Impact Report (EIR), and its associated permitting package. The ADSRP Draft EIR was distributed for public review on September 1, 2023. A public information meeting took place on October 4, 2023. The FAHCE Final Program EIR for Stevens Creek and Guadalupe Watershed was completed on June 30, 2023, and Board certification of the Final Program EIR took place on August 8, 2023. Future progress will be reported to the Stream Planning and Operations Committee (formerly the FAHCE Ad Hoc Committee) when it reconvenes in fall 2023.	JB
3	91304001	Purified Water Project - P3	Staff is continuing to make progress on the development of the Request for Proposal and Draft EIR and provide updates to the four shortlisted firms. Staff is continuing to collaborate with the City of Palo Alto on the agreements needed to implement the project. Staff is performing outreach to agencies, cities and landowners along the proposed pipeline route, as well as ensuring public acceptance of the project. Staff submitted a prescreening application to the City of Palo Alto Planning Department and installed a Project board sign at the Advanced Water Purification Facility site. In June, Valley Water presented on the project at a study session for the Palo Alto City Council as part of Palo Alto’s development review process. Staff is continuing to coordinate with the City of Palo Alto Planning Department and other City Departments on preliminary utility and site designs.	VG
4	93044001	Water Treatment Plant (WTP) Master Plan Implementation Project	Staff has finalized the Problem Definition Report and the Conceptual Alternatives Report. Staff continues to develop feasible project alternatives with stakeholder input and new site visits to help validate preliminary project designs and engineering assumptions. The alternative report is a document that outlines the various options available for a particular project or problem. It provides an overview of the different alternatives that can be considered, along with their pros and cons. The report will screen out alternatives which are unfeasible or impractical based on research conducted.	LP
5	95044002	SCADA Master Plan Implementation Project	Staff has incorporated the needs and gaps identified during field site visits and workshops with Valley Water stakeholders into a Needs Assessment and Gap Analysis Report. Industry standards review work and benchmarking against similar water utility agencies has been done, and findings are being presented to stakeholders for use in upcoming alternatives analysis work.	LP
6	95044001	Distribution System Master Plan Implementation Project	Staff has finalized the Goals and Objectives Technical Memo. Staff is now performing a desktop condition assessment and a performance evaluation of the pipeline assets to identify needs that may lead to recommended capital projects.	LP
7	95084002	10-Year Pipeline Inspection and Rehabilitation Project	Staff is continuing coordination with internal stakeholders to update the current program. The environmental consultant is currently collecting and evaluating environmental information for the Program EIR preparation.	EA
Flood Protection				
8	30154019	Guadalupe River, Tasman Dr. to I-880	Staff provided an update on the staff-recommended alternative to the Chiefs and the CIP Committee in August 2023, and is working to finalize the Planning Study Report, Planning to Design Transition Report, and close out the planning phase by June 2024. The Project will then move into the design phase. In addition, staff is continuing to research Forecast Informed Reservoir Operations as a potential future enhancement to the staff recommended alternative, and confirming 1% design flow changes with US Army Corps of Engineers (USACE) and Federal Emergency Management Agency (FEMA).	BY
9	50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	The Project was on hold due to staffing resources that were required for the Upper Llagas Project's accelerated schedule. Staff is working on updating all planning phase deliverables including the Problem Definition Report, and is re-evaluating alternatives based on updated existing conditions. The Problem Definition Report is expected to be complete in fall 2024.	BY

Capital Project Monitoring - October 2023

Feasibility and Planning Phase				
Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues	Deputy's Initials
10	00044026s	San Francisco Bay Shoreline (E7) - Phase II and Phase III	<p>The Phase II study includes Economic Impact Areas (EIAs) 1-4 (from San Francisquito Creek in Palo Alto to Permanente Creek in Mountain View). USACE has completed an Economic Feasibility Analysis that determined that the future economic damage from coastal flooding is not great enough to justify investing federal dollars in a project until 2060. USACE analysis assumed that Valley Water will replace the Palo Alto flood basin tide gate structure; however, the replacement has been postponed in Valley Water's Capital Improvement Program. Therefore USACE conducted hydraulic modeling to determine if a failed tide gate would change the analysis and found that the analysis does not change the study outcome. USACE is finalizing study documentation and closing out the study. In addition, Valley Water is considering alternate means of working with USACE on smaller projects in the study area, such as through the USACE Continuing Authorities Program (CAP) 205 process or a General Reevaluation Study.</p> <p>USACE kicked off the Phase III Feasibility Study for EIAs 5-10 (from Permanente Creek in Mountain View to Guadalupe River in San Jose) in August 2023. Valley Water and the State Coastal Conservancy are the local sponsors on the project. USACE's first milestone meeting is tentatively scheduled for December 2023.</p>	BY
Water Resources Stewardship				
11	62044001	Metcalf Pond Feasibility Study	Planning team engaged Steering Committee members with Planning Charettes (problem definition and conceptual alternatives) in 2020. The draft feasibility report is currently being updated to include hydraulic analysis of the existing fishway and to be consistent with Phase 1 and 2 work under the Anderson Dam Federal Energy Regulatory Commission-ordered Compliance Project (FOCP). Phase 1 is under construction, including replacement of the flashboard dam with a bladder dam and improving fish passage at the existing fish ladder and downstream dam section. Planning and design for Phase 2 will be implemented under the Coyote Percolation Dam Fish Passage Project (Placeholder Project No. 95C40400).	JB
12	20444001	Calabazas/San Tomas Aquino Creek-Marsh Connection Project	Modeling analysis for selected five alternatives presented during May 2023 public meeting has been completed. Refinement of these alternatives and additional modeling are being conducted. Another meeting is planned for October 2023 to receive feedback on public access and trail improvements that will be constructed as part of the Project. A regional application was submitted to National Oceanic and Atmospheric Administration (NOAA) for a grant including construction funding of \$15 million for the Project (about 50% of the estimated construction cost).	JB
13	20444002	Pond A4 Resilient Habitat Restoration Project	Construction access, staging, and delivery of Stream Maintenance Program sediment to Pond A4 was separated from the Calabazas/San Tomas Aquino Creek-Marsh Connection Project and approved as a distinct project in the Final FY 2024-28 Five-Year CIP in April 2023. Necessary documentation for statutory CEQA exemption is being prepared with assistance from consultant HT Harvey. In addition, geotechnical investigation by Haley & Aldrich (formerly California Engineering and Geology) using an on-call services contract is underway.	JB
14	26044003	SCW Ogier Ponds Separation from Coyote Creek (D4.2)	Staff is currently evaluating feasible alternatives as part of the project's Planning Study Report. Negotiations with the primary landowner (Santa Clara County Parks) on a property use agreement (Master License Agreement) are underway. The planning study team is closely coordinating with the Anderson Dam Seismic Retrofit Project team to prepare environmental compliance documents for permitting. Initial conceptual alternatives were developed with Santa Clara County Parks and presented to members of the public and other environmental stakeholders on May 31, 2023.	JB
Buildings & IT				
15	60204032	Headquarters Operations Building	Project team is working with a consultant on a report that analyzes strategies for the Maintenance Building. Each strategy details optional methods for the renovation of the building to meet the current needs for space and other operational functions. Included in this report are schedule impacts and a rough order of magnitude cost analysis for each strategy. There is \$2M budgeted in the project to cover consultant fees and any additional design fees for the report. A preliminary version of the report was received by staff in May 2023, and staff is currently collaborating with management to evaluate the strategies presented in the report for maximum overall benefit to Valley Water.	TN



Santa Clara Valley Water District

File No.: 23-0999

Agenda Date: 10/16/2023

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM **Capital Improvement Program Committee**

Government Code § 84308 Applies: Yes ☒ No ☐
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

RECOMMENDATION:

Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

SUMMARY:

During the May 17, 2021, Capital Improvement Program (CIP) Committee meeting, staff provided an update on the Anderson Dam Tunnel Project (ADTP) No. 91864005. The Committee requested staff provide monthly change order status updates after construction of the ADTP commences on July 7, 2021.

Project Background

Santa Clara Valley Water District (Valley Water) is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020, directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the ADTP.

On April 27, 2021, Valley Water's Board of Directors awarded the construction contract for the ADTP to the top ranked best value proposer, Flatiron West, Inc. (Flatiron), in the sum of \$161,140,321 and approved a contingency amount of \$40,000,000 (25% of the contract price). The Board directed staff to discuss delegating authority for contingency expenditures with the CIP Committee.

By unanimous roll call vote at its May 17, 2021, meeting, the Committee approved recommending to the full Board that it consider delegating authority to staff to approve change orders for the ADTP at the amounts stated below and that the CIP Committee receive regular monthly reports with information regarding approved change orders, pending change orders, and the cumulative amounts. Valley Water's Board of Directors accepted the CIP Committee recommendations at its regular meeting on May 25, 2021.

Delegated Approval Authority

Unit Manager: Up to \$100,000
Assistant Operating Officer: Up to \$250,000
Deputy Operating Officer: Up to \$500,000
Assistant Chief Executive Officer: Up to \$2.5 million
Chief Executive Officer: Up to \$5 million
Board of Directors: \$5 million and above

Construction Contract Change Orders Status

There is one new Contract Change Order (CCO #25) to present to the CIP Committee. The net value of the Contract Change Order is \$108,115.00. Also included for reference are two attachments providing information on construction contract change orders (Attachment 1) and construction contract financials (Attachment 2).

Contract Change Order #25

- 1. Micro-Tunnel Boring Machine (MTBM) Lake Tap Tie Down.** Valley Water issued Contract Design Clarification 004 - Phase 3 Design Changes, which included an additional 8-foot pipe tie-down strap with concrete pads and anchor rods; these are necessary to provide additional support for the submerged 8-foot pipe in the reservoir. This portion of the change order is estimated to be valued at \$102,000.00.
- 2. Reservoir Log Boom Relocation** The existing log boom in the reservoir required relocation efforts in order to facilitate the installation of the turbidity curtain for the dredging operation. This work was completed on Time & Material basis with the final cost valued at \$6,115.00.

Due to time constraints during the September 2023 CIP Committee meeting, Committee Chair Hsueh requested that the ADTP Change Order update be moved to the October meeting. The September 2023 CIP Committee ADTP Change Order memo is attached (Attachment 3) for reference.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment A: Government Code §84308
Attachment 1: Construction Contract Change Orders Status

File No.: 23-0999

Agenda Date: 10/16/2023
Item No.: 4.2.

Attachment 2: Construction Contract Financial Status

Attachment 3: September 2023 CIP Committee ADTP Change Order Memo

UNCLASSIFIED MANAGER:

Ryan McCarter, 408-630-2983

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Attachment A – Gov. Code § 84308

Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

List of Parties and Their Agents/Representatives Known to Staff

<u>Organization Name</u>	<u>Name</u>	<u>Role</u>	<u>Location</u>
Flatiron West, Inc.	Shawn Golden	Vice President	2100 Goodyear Rd. Benicia, CA 94510

List of Participants and Their Agents/Representatives Known to Staff

<u>Organization Name</u>	<u>Name</u>	<u>Role</u>	<u>Location</u>

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**Anderson Dam Tunnel Project
Construction Contract Change (CCO) Order Status**

CCO #	CIP Committee Date	Approval Date	Description	Amount	Contingency Amount	Approval Level	Status
		4/27/2021	Original Contract	\$161,140,321.00	\$40,000,000.00	Board	
1	1/18/2022	12/16/2021	Additional Tree Removal, Protection and Relocation	\$460,250.41	\$39,539,749.59	DOO	Approved
2	2/14/2022	4/26/2022	Outlet Works Vertical Shaft Re-sizing	\$3,783,119.15	\$35,756,630.44	CEO	Approved
3	5/16/2022	5/17/2022	Water Quality Monitoring Equipment, Miscellaneous demolition, TCEAP VHF/UHF Radios	\$131,603.28	\$35,625,027.16	AOO	Approved
4	6/13/2022	6/30/2022	Tunnel and Miscellaneous Items from CDC-001/001.1, Remove Taber Drilling from Scope	\$386,801.98	\$35,238,225.18	DOO	Approved
5	6/13/2022	6/30/2022	Upsizing Soil Nail Rows D&E from #18 to #20	\$228,562.00	\$35,009,663.18	DOO	Approved
6	7/18/2022	8/6/2022	Increased Quantity of Diversion Portal Excavation, Assistance with Geological Investigations, Internet access to Trailer # 2, and Change of Infill material for High Level Outlet Works (HLOW) Shaft	\$63,063.32	\$34,946,599.86	UM	Approved
7	9/26/2022	10/31/2022	Disposal Area Parking Lot Remediation, DOS Foundation Excavation - Revised Soil Nail Wall, and Additional Environmental Compliance for Water Quality Monitoring and Soil Testing	\$1,526,724.84	\$33,419,875.02	ACEO	Approved
8	10/18/2022	10/26/2022	Disposal of Regulated and Organic Material	\$80,000.00	\$33,339,875.02	UM	Approved
9	11/14/2022	11/18/2022	3-D Modeling of HLOW Shaft	\$101,101.00	\$33,238,774.02	AOO	Approved
10	12/12/2022	12/19/2022	Monitoring of Additional Piezometer, Supplementary Support for the Transition Zone, DOS Portal Conditions, Partnering	\$1,971,946.48	\$31,266,827.54	ACEO	Approved
11	2/13/2023	12/19/2022	Time Related Overhead Time Impact Analysis 002	\$2,515,330.18	\$28,751,497.36	CEO	Approved
12	2/13/2023	1/19/2023	Increased Quantity of Diversion Tunnel Excavation Class 5	\$1,800,000.00	\$26,951,497.36	ACEO	Approved
13	2/13/2023	2/24/2023	Diversion Outlet Structure (DOS) Energy Dissipation Chamber Grated Access Opening	\$26,000.00	\$26,925,497.36	UM	Approved
14	3/20/2023	4/03/2023	Increased Quantity for 18.5 Foot Diameter Tunnel Excavation Class 5, Increased Quantity for Bid Item No. 2h, 2i, 2j, 2k. Decreased Quantity for Bid Item No. 5a and 5b.	\$156,000.00	\$26,769,497.36	AOO	Approved
15	3/20/2023	4/18/2023	Diversion Outlet Structure CLSM Saturday Premium Time, Diversion Portal Soil Nail Wall Condition	\$436,753.65	\$26,332,743.71	DOO	Approved
16	4/10/2023	5/12/2023	Surge Protection Device for Main Switchgear, CDC 015 Water Quality Instrumentation, Tree Trimming for Pacific Gas & Electric Pole Relocation	\$84,200.00	\$26,248,543.71	AOO	Approved
17	4/10/2023	5/12/2023	Increased Bid Item No. 11A Allowance - Other Wildlife and Fish Species, Specification Section 19.09	\$145,080.00	\$26,103,463.71	AOO	Approved
18	5/15/2023	5/30/2023	Traffic Support for Press Event	\$2,023.00	\$26,101,440.71	AOO	Approved
19	6/30/2023	5/25/2023	Increase Bid Item No. 5x Tunnel Excavation in Transition Zone - Class 5	\$994,500.00	\$25,106,940.71	ACEO	Approved
20	6/30/2023	8/10/2023	18" Hydro Return Line Decommissioning, Low Level Outlet Tunnel Steel Sets Enlargement, DPP8 Boring Survey Assistance, Air Vent Pipe Procurement, CDC 007.3 North Channel FWI Scope 2023, CDC 007.3 North Channel DTDS Scope 2023.	\$1,175,413.01	\$23,931,527.70	ACEO	Approved
21	6/30/2023	7/26/2023	Time Related Overhead Time Impact Analysis 003	\$884,042.66	\$23,047,485.04	ACEO	Approved
22	8/21/2023	7/31/2023	Additional Shotcrete in the Transition Zone, Increase in Bid Item No. 5g - Transition Zone Rock Bolts	\$424,016.00	\$22,623,469.04	DOO	Approved
23	8/21/2023	9/27/2023	Anderson Force Main Galvanic Cathodic Protection, Air Vent Pipe Installation	\$573,874.58	\$22,049,594.46	ACEO	Approved
24	9/18/2023	TBD	North Channel Tree Removal, Allowance Increase for Additional Environmental Compliance for Water Quality Monitoring and Soil Testing, Access Hatch for HLOW Shaft.	\$790,000.00	\$21,259,594.46	ACEO	Pending
DCO #	CIP Committee Date	Approval Date	Description	Amount	Contingency Amount	Approval Level	Status
1	09/26/22	10/05/22	Milestone 7, 9, and 10 Completion Revisions	\$0.00	\$21,259,594.46	UM	Approved

Anderson Dam Tunnel Project
Construction Contract Change (CCO) Order Status

New CCOs for CIP Committee

Pending CCO #	CIP Committee Date	Approval Date	Description	Amount	Contingency Amount	Approval Level	Status
25	10/16/2023	TBD	Micro-Tunnel Boring Machine (MTBM) Lake Tap Tie Down, Reservoir Log Boom Relocation	\$108,115.00	\$21,151,479.46	AOO	Pending

Total Approved	25	Total	\$18,740,405.54	\$21,259,594.46			
Total Pending	1	Total	\$108,115.00	\$21,151,479.46			

Total Number of COs (Approved & Pending)	Total Amount of COs (Approved & Pending)
26	\$18,848,520.54

Anderson Dam Tunnel Project - Construction Contract Financials

Bid Item No.	Description	Amount	Balance Remaining	Billing Through August 2023	
				Percent (%)	Amount
1	MOBILIZATION AND DEMOBILIZATION	\$ 16,150,000.00	\$ 2,666,575.00	83%	\$ 13,483,425.00
2	SITE PREPARATION	\$ 5,713,000.00	\$ 1,175,607.78	79%	\$ 4,537,392.22
3	DIVERSION PORTAL	\$ 6,173,496.00	\$ 261,886.40	96%	\$ 5,911,609.60
4	LAKE-TAP PORTAL	\$ 4,215,000.00	\$ 3,041,310.00	28%	\$ 1,173,690.00
5	TUNNEL EXCAVATION AND LINING	\$ 47,438,325.00	\$ 35,961,125.00	24%	\$ 11,477,200.00
6	SHAFT EXCAVATION AND LINING	\$ 10,100,000.00	\$ 4,336,360.00	57%	\$ 5,763,640.00
7	MICROTUNNEL	\$ 9,982,000.00	\$ 9,052,000.00	9%	\$ 930,000.00
8	DIVERSION OUTLET STRUCTURE	\$ 48,678,550.00	\$ 37,613,024.78	23%	\$ 11,065,525.22
9	COYOTE CREEK MODIFICATIONS	\$ 6,421,550.00	\$ 5,152,557.00	20%	\$ 1,268,993.00
10	SUPPLEMENTAL WORK ITEMS	\$ 5,668,400.00	\$ 5,668,400.00	0%	\$ -
11	ALLOWANCES	\$ 600,000.00	\$ 333,221.03	44%	\$ 266,778.97
		Total Original Contract Amount	Total Balance Remaining	Percent (%) Billed	Total Billed To Original Contract Amount
		\$ 161,140,321.00	\$ 105,262,066.99	35%	\$ 55,878,254.01

CCOs	Description	Amount	Balance Remaining	Billing Through August 2023	
				Percent (%)	Amount
CCO 1-22	CONTRACT CHANGE ORDERS (CCO)	\$ 17,376,531.02	\$ 3,923,097.07	77%	\$ 13,453,433.95
		Total Contract Amount Including CCOs	Total Balance Remaining Including CCOs	Total Percent (%) Billed Including CCOs	Total Billed Including CCOs
		\$ 178,516,852.02	\$ 109,185,164.06	39%	\$ 69,331,687.96

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COMMITTEE AGENDA MEMORANDUM
Capital Improvement Program Committee

Government Code § 84308 Applies: Yes ☒ No ☐
(If "YES" Complete Attachment A – Gov. Code § 84308)

SUBJECT:

Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

RECOMMENDATION:

Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

SUMMARY:

During the May 17, 2021, Capital Improvement Program (CIP) Committee meeting, staff provided an update on the Anderson Dam Tunnel Project (ADTP) No. 91864005. The Committee requested staff provide monthly change order status updates after construction of the ADTP commences on July 7, 2021.

Project Background

Santa Clara Valley Water District (Valley Water) is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020, directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the ADTP.

On April 27, 2021, Valley Water's Board of Directors awarded the construction contract for the ADTP to the top ranked best value proposer, Flatiron West, Inc. (Flatiron), in the sum of \$161,140,321 and approved a contingency amount of \$40,000,000 (25% of the contract price). The Board directed staff to discuss delegating authority for contingency expenditures with the CIP Committee.

By unanimous roll call vote at its May 17, 2021, meeting, the Committee approved recommending to the full Board that it consider delegating authority to staff to approve change orders for the ADTP at the amounts stated below and that the CIP Committee receive regular monthly reports with information regarding approved change orders, pending change orders, and the cumulative amounts. Valley Water's Board of Directors accepted the CIP Committee recommendations at its regular meeting on May 25, 2021.

Delegated Approval Authority

Unit Manager: Up to \$100,000
Assistant Operating Officer: Up to \$250,000
Deputy Operating Officer: Up to \$500,000
Assistant Chief Executive Officer: Up to \$2.5 million
Chief Executive Officer: Up to \$5 million
Board of Directors: \$5 million and above

Construction Contract Change Orders Status

There is one new Contract Change Order (CCO #24) to present to the CIP Committee. The net value of the Contract Change Order is \$790,000.00. Also included for reference are two attachments providing information on construction contract change orders (Attachment 1) and construction contract financials (Attachment 2).

Contract Change Order #24

1. **North Channel Tree Removal.** Due to the changes made in Contract Design Clarification (CDC) 007.3 North Channel improvement work, 121 additional trees have been identified in the vicinity of the North Channel for removal and 13 additional trees that need to be trimmed to complete the north channel improvements work. This portion of the change order is estimated to be valued at \$320,000.00.
2. **Allowance Increase for Additional Environmental Compliance for Water Quality Monitoring and Soil Testing.** Valley Water issued CDC 005 in September 2021 which included environmental compliance permits obtained by Valley Water. The permits included additional requirements for water quality monitoring and soil testing. CCO #7 was previously executed with an established initial allowance, which is nearly exhausted. This item includes cost for approximately an additional 15 months of work to continue the necessary water quality monitoring and soil testing. This portion of the change order will provide an additional allowance of \$350,000.00.
3. **Access Hatch for High Level Outlet Works (HLOW) Shaft.** Valley Water issued CDC 017 which included a new, 3-foot diameter and 20-foot-long steel pipe accessway into the HLOW Shaft steel pipe to facilitate inspections by Valley Water staff. The accessway features a secure T-bolt closure mechanism located at the top of the accessway. This portion of the change order is estimated to be valued at \$120,000.00.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment A: Government Code §84308

Attachment 1: Construction Contract Change Orders Status

Attachment 2: Construction Contract Financial Status

UNCLASSIFIED MANAGER:

Ryan McCarter, 408-630-2983

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Santa Clara Valley Water District

File No.: 23-0885

Agenda Date: 10/16/2023

Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM Capital Improvement Program Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive Information on Upcoming Consultant Agreement Amendments for Capital Projects.

RECOMMENDATION:

Receive information on upcoming consultant agreement amendments for capital projects.

SUMMARY:

At the March 28, 2017 meeting, the Board of Directors approved revising the Capital Improvement Program (CIP) Committee's purpose to include monitoring implementation progress of key projects in the CIP. At their June 29, 2020 meeting, the CIP Committee requested this topic be added as a standing item on all future CIP Committee meeting agendas, and that staff provide updates on consultant agreement amendments for capital projects which may include modifications to scope, schedule, and/or budget.

There are three consultant agreement amendments for capital projects presented here for the Committee's information:

1. Amendment No. 6 to Agreement A3626A with CDM Smith, Inc., for Engineering Design Services for the Rinconada Water Treatment Plant Reliability Improvement Project No. 93294057 (Time Extension) (E. Aryee)

Staff will recommend Purchasing and Consultant Contracts Services Unit Supervising Program Administrator approval of Amendment No. 6 to Agreement A3626A with CDM Smith, Inc. (Consultant), for Engineering Design Services for the Rinconada Water Treatment Plant (RWTP) Reliability Improvement Project No. 93294057 (Project) to extend the term of the Agreement by two years from October 31, 2023, through October 31, 2025.

The Rinconada Water Treatment Plant (RWTP) Reliability Improvement Project Phases 3 - 6 (RIP) is being undertaken to address aging infrastructure replacement and upgrades to the water treatment plant. Pursuant to Agreement A3626A, Consultant is performing design and engineering support services during construction of the RIP. As the engineer-of-record, the

firm is reviewing submittals, RFIs, potential change orders, and providing design clarifications.

Extending the expiration date of Agreement A3626A pursuant to Amendment No. 6, will allow the Consultant to provide critical engineering support services during the ongoing construction project scheduled to continue for the next several years.

Government Code § 84308 Applies: Yes ☐ No ☒

2. Amendment No. 4 to Agreement A4247A with Hazen and Sawyer for Project Planning and Preliminary Design Services for the Vasona Pump Station Upgrades Project No. 92264001 (Time Extension) (E. Aryee)

Staff will recommend Purchasing and Consultant Contracts Services Unit Supervising Program Administrator approval of Amendment No. 4 to Agreement A4247A with Hazen and Sawyer (Consultant) for Project Planning and Preliminary Design Services for the Vasona Pump Station Upgrades Project No. 92264001 (Project) to extend the expiration date of the Agreement by six months, from December 31, 2023, to June 30, 2024.

Pursuant to Agreement A4247A, Consultant is performing project planning and preliminary design services including, field investigations, developing and evaluating alternatives, preparing a Planning Study Report, preliminary design, and a California Environmental Quality Act (CEQA) document.

Extending the expiration date of Agreement A4247A pursuant to Amendment No. 4, will allow the Consultant to continue to provide Planning and Preliminary Design Services for the completion of the Project's design and preparation of environmental documents.

Government Code § 84308 Applies: Yes ☐ No ☒

3. Amendment No. 10 to Agreement A3555A with Black and Veatch Corporation, for Project Management Services for the Anderson Dam Seismic Retrofit Project No. 91864005, Calero Dam Seismic Retrofit Project No. 91084020, Guadalupe Dam Seismic Retrofit Project No. 91894002, and Almaden Dam Improvement Project No. 91854001 (Time Extension) (R. McCarter)

Staff will recommend Purchasing and Consultant Contracts Services Unit Supervising Program Administrator approval of Amendment No. 10 to Agreement A3555A with Black and Veatch Corporation (Consultant) for Project Management Services for the Anderson Dam Seismic Retrofit Project No. 91864005, Calero Dam Seismic Retrofit Project No. 91084020, Guadalupe Dam Seismic Retrofit Project No. 91894002, and Almaden Dam Improvement Project No. 91854001 to extend the term of the Agreement by eleven months from December 31, 2023, through November 15, 2024.

Pursuant to Agreement A3555A, Consultant provides project management services for Anderson Dam Seismic Retrofit Project (ADSRP), Calero Dam Seismic Retrofit Project (CDSRP), Guadalupe Dam Seismic Retrofit Project (GDSRP) and Almaden Dam Improvement Project (ADIP). The four projects are in various stages of development managed by

Consultant's ongoing support.

ADSRP is in the design phase and 90% design documents are under review by the Federal Energy Regulatory Commission (FERC) and the Department of Safety of Dams (DSOD). Santa Clara Valley Water District (Valley Water) is required by FERC to conduct meetings with an external Board of Consultants (BOC) to review and provide comments on various elements of the Project. The BOC is managed through the Black and Veatch Agreement.

Extending the expiration date of Agreement A3555A pursuant to Amendment No. 10 will allow the Consultant to provide essential project management services on the CDSRP, GDSRP, ADIP, and ADSRP projects and to work with the regulators toward construction authorization of ADSRP.

Government Code § 84308 Applies: Yes ☐ No ☒

NOTE: Effective May 22, 2023, Valley Water's Deputy Administrative Officer delegated authority for approving no-cost consultant agreement amendments to Valley Water's Purchasing and Consultant Contracts Services Unit Supervising Program Administrator.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

No Attachments.

UNCLASSIFIED MANAGER:

Emmanuel Aryee, 408-630-3074
Ryan McCarter, 408-630-2983

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Santa Clara Valley Water District

File No.: 23-1000

Agenda Date: 10/16/2023

Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM **Capital Improvement Program Committee**

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive Update on the Palo Alto Flood Basin Tide Gate Structure Replacement Project, Project No. 10394001, (Palo Alto, District 7).

RECOMMENDATION:

Receive update on the Palo Alto Flood Basin Tide Gate Structure Replacement Project, Project No. 10394001, (Palo Alto, District 7).

SUMMARY:

Project Background

The Palo Alto Flood Basin Tide Gate Structure (Structure) was constructed in 1957 by the Santa Clara County Flood Control and Water Conservation District (predecessor special district to Santa Clara Valley Water District), the County of Santa Clara, and the City of Palo Alto. A map of the basin is included as Attachment 2.

In 2012, Santa Clara Valley Water District (Valley Water) completed emergency repairs to stop seepage flow beneath the Structure, a condition documented by monitoring the seepage in 2011. As part of that effort, staff prepared a post-construction report as required by the United States Army Corps of Engineers' (USACE) Emergency Permit, which detailed the emergency work and recommended replacement of the Structure.

In 2014, Valley Water retained the services of Mark Thomas & Company, Inc. (MT) engineering consultant to perform structural inspections and prepare an assessment report for the Structure. The report concluded that the Structure was generally in fair condition and recommended minor structural repairs.

In 2017, Valley Water retained a construction contractor to perform minor repairs as authorized pursuant to the existing Stream Maintenance Program (SMP) Permit. The work was complicated due to the inability to dewater to perform the necessary construction, which resulted in the contract work

being terminated and the remaining scope left incomplete. Subsequently, another structural assessment was performed by MT in October 2017, which concluded that the structure would be functional for a couple more years and recommended the Structure ultimately be replaced.

In 2018, project objectives were changed to replace the Structure, and the Palo Alto Flood Basin Tide Gate Structure Replacement Project (Project) was initiated. Staff commenced the California Environmental Quality Act (CEQA) compliance process and environmental regulatory permitting process, planning, and design of the Project. Staff also engaged MT to conduct Structure assessments annually starting from January 2020. All Structure assessments performed to date concluded that the Structure should still be able to function for another couple of years.

On June 24, 2020, staff held a Planning Phase Public Outreach Virtual Meeting. Staff also presented a Project update at the City of Palo Alto Sea Level Rise Public Virtual Meeting on September 9, 2020. Recordings of the virtual meetings are available at: <https://www.valleywater.org/pafbtidegates>. During these two public meetings, staff stated that the Project would need to be coordinated with the South San Francisco Bay Shoreline Phase II Project (Shoreline II Project), which relied on federal participation of the USACE as the lead agency. The location of the new tide gate structure in the Project would need to match the chosen levee alignment of the USACE Shoreline II Project. Moreover, the elevation for the new tide gate structure in the Project would need to match the new levee elevation from the USACE Shoreline II Project.

In late 2022, the USACE expressed no federal interest within the foreseeable future to pursue the Shoreline II Project and placed it on-hold indefinitely. During this time, staff had secured final regulatory permits for the Structure replacement Project from various agencies and was working to complete the 100% Design Phase. A significant construction cost increase was estimated at that time, which exceeded Valley Water's available funds for constructing the Project.

A more detailed description of the Project background is available at the Project website <https://www.valleywater.org/pafbtidegates>.

Project Status Update

Following the USACE's decision not to progress the Shoreline II Project, and the Structure Replacement Project's need for additional funding, further Project development was put on-hold indefinitely by Valley Water's Board of Directors at its January 10, 2023 meeting. Subsequently, staff evaluated the potential to pursue and implement a lesser scope project in the short-term to address seismic vulnerabilities and rehabilitate the aging tide gate structure while the long-term project plan is being developed.

The evaluation resulted in the Project being divided into two phases: Phase 1 work consists of designing and constructing a seismic retrofit and rehabilitation of the Structure to extend its service life. Phase 2 work involves working with the USACE on a long-term structure replacement project to ensure alignment and elevation compatibility with the Shoreline II Project.

Staff is currently focusing efforts on Phase 1 work. Due to the change in Project approach, staff

initiated the Phase 1 60% Design Phase in spring 2023 and is currently performing in-house structural analysis and retrofit design calculations to address seismic vulnerabilities of the Structure. Additionally, staff is working on details for the following rehabilitation elements: (1) fence replacement, (2) concrete surface restoration and protection, (3) potential sheet pile corrosion protection, and (4) other rehabilitation elements considered necessary based on results of the underwater Structure inspection performed in fall 2023. Staff aims to complete 60% Design Phase by winter 2023, and initiate the environmental process, which includes CEQA review, and obtaining regulatory permits for the lesser scope Phase 1 construction activities, which would be significantly different than construction activities for a structure replacement.

Phase 2 work plan is unknown at this time. Staff anticipates providing an update on Phase 2 work by the time Phase 1 begins construction, which is anticipated for the late spring or early fall of 2025.

Key Target Schedule Dates (Phase 1 Work)

Complete 60% Design: December 2023

Complete 90% Design: March 2024

Acquire All Environmental Regulatory Permits & Complete CEQA Review: August 2024

Complete 100% Design: October 2024

Board Approval to Advertise Project: February 2025

Board Approval to Award Project: April 2025

Contractor NTP: May 2025

Contractor On-Site Work: September 2025 - January 2026

Above dates to advertise and award the Project for construction are contingent upon acquiring all required permits.

ENVIRONMENTAL JUSTICE IMPACT:

Environmental Justice impacts associated with the Project are currently unknown and will be evaluated and reported to the Board when the Project is recommended to approve the final contract documents and advertise for bidders.

ATTACHMENTS:

Attachment 1: PowerPoint

Attachment 2: Map

UNCLASSIFIED MANAGER:

Bhavani Yerrapotu, 408-630-2735

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Palo Alto Flood Basin Tide Gate Structure Seismic Retrofit & Rehabilitation - Project Concept

Presented by: Robert Yamane, P.E., Senior Engineer

October 16, 2023 – CIP Committee Update
Project website: www.valleywater.org/pafbtidegates

Existing Tide Gate Structure Built in 1957



1. Palo Alto Flood Basin (PAFB) provides critical flood protection for Matadero, Barron, and Adobe Creeks
2. City of Palo Alto operates one of the gates for managing the basin
3. Tide Gate Structure bridges between PAFB levees as part of the SF Bay Trail
4. The gates hold high-tide water out and allow the basin to drain at low-tide

Project Location



Brief History

- 2011 - Underseepage discovered below the structure
- 2012 - Underseepage stopped w/ underwater concrete pursuant to an emergency declaration issued by the CEO
- 2012 - CIP Project Initiated for Tide Gate Structure Rehabilitation
 - *Total Project Budget Estimate: \$5.2M*
- 2017 - CIP Project for rehabilitation of structure awarded for construction
 - Dewatering change order → Suspension of Work → Notice of Completion (i.e. rehabilitation not completed)
 - *2018 - Notice of Completion Board Memo - Align Tide Gate alternative with plans for “Strategy to Advance Flood protection, Ecosystems and Recreation (SAFER) Bay Project” . i.e. Shoreline Protection*
- 2019 - Evaluation of Alternatives for Replacement
- 2020 - Public meeting (Planning Study Report) - Tide gate replacement to be coordinated w/ Shoreline Phase II
- 2022 - Progress on Tide Gate Design & US Army Corps of Engineers (USACE) Shoreline Phase II Study
 - No federal interest for Shoreline Phase II
 - Significant increase of construction cost estimate for tide gate replacement
- 2023 - Rescope tide gate replacement to Seismic Retrofit & Rehabilitation (Avoiding de-watering)

Sea Level Rise and Tide Gate Operation

1. The tide gate structure drains the PAFB water levels down to the low tide
2. As sea level rises, the water levels in the PAFB will increase
3. Preliminary modeling results indicate that the existing tide gate structure can accommodate an additional 0.6' of Sea Level Rise (SLR). It may take 8 to 15 years to reach this threshold based on current SLR estimates.
4. Beyond 0.6' of SLR, broader effort for SLR and associated backwater flows along the three creeks is necessary for shoreline protection and flood mitigation

Project Objectives

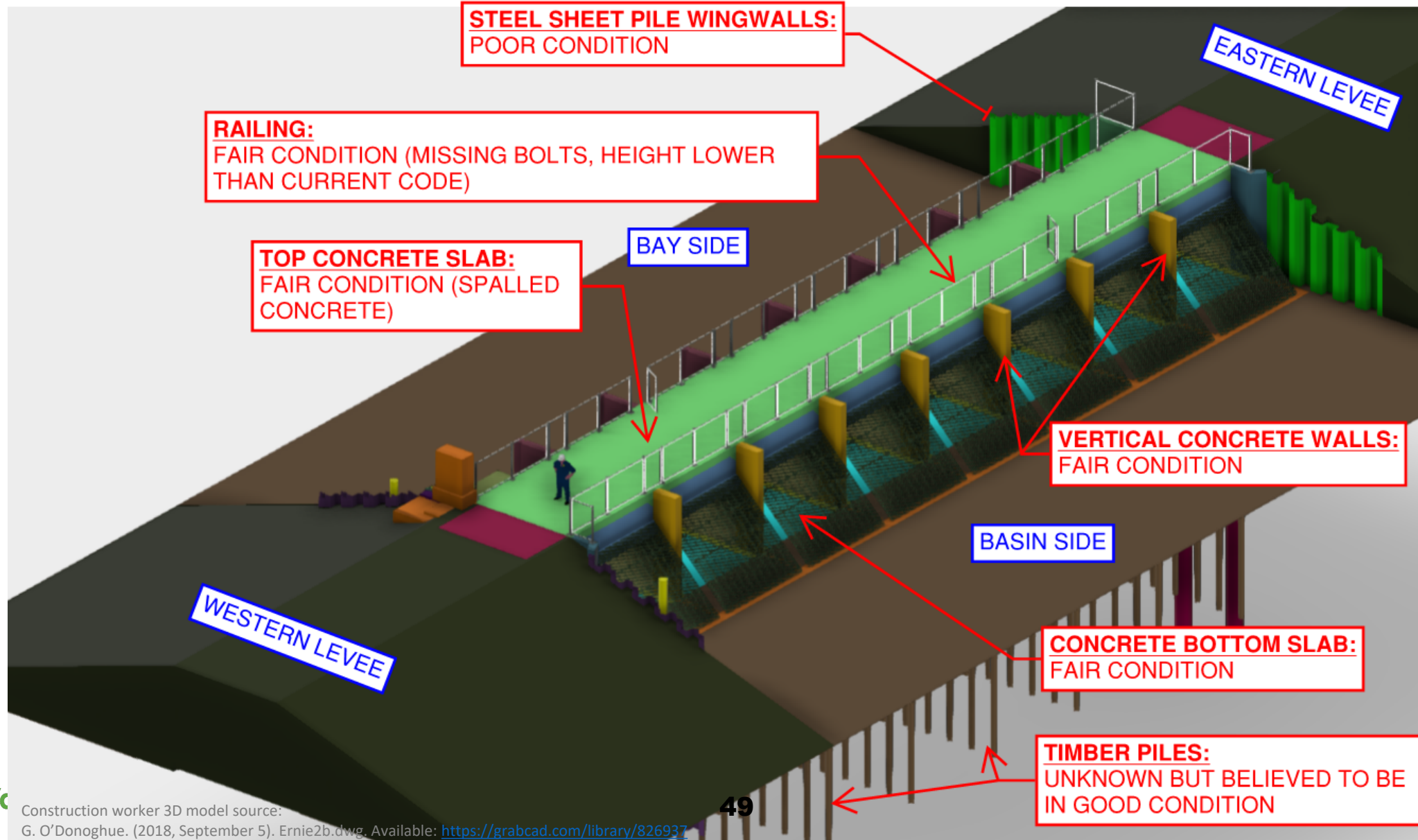
1. Phase 1 Work:

- A. Retrofit the existing tide gate structure to reduce seismic vulnerabilities
- B. Rehabilitate the existing tide gate structure to extend the service life of the structure
 - 1) Design estimate for an additional 30-year life usage

2. Phase 2 Work:

- A. Replacement tide gate structure - pending future funding & timing of Shoreline levee work

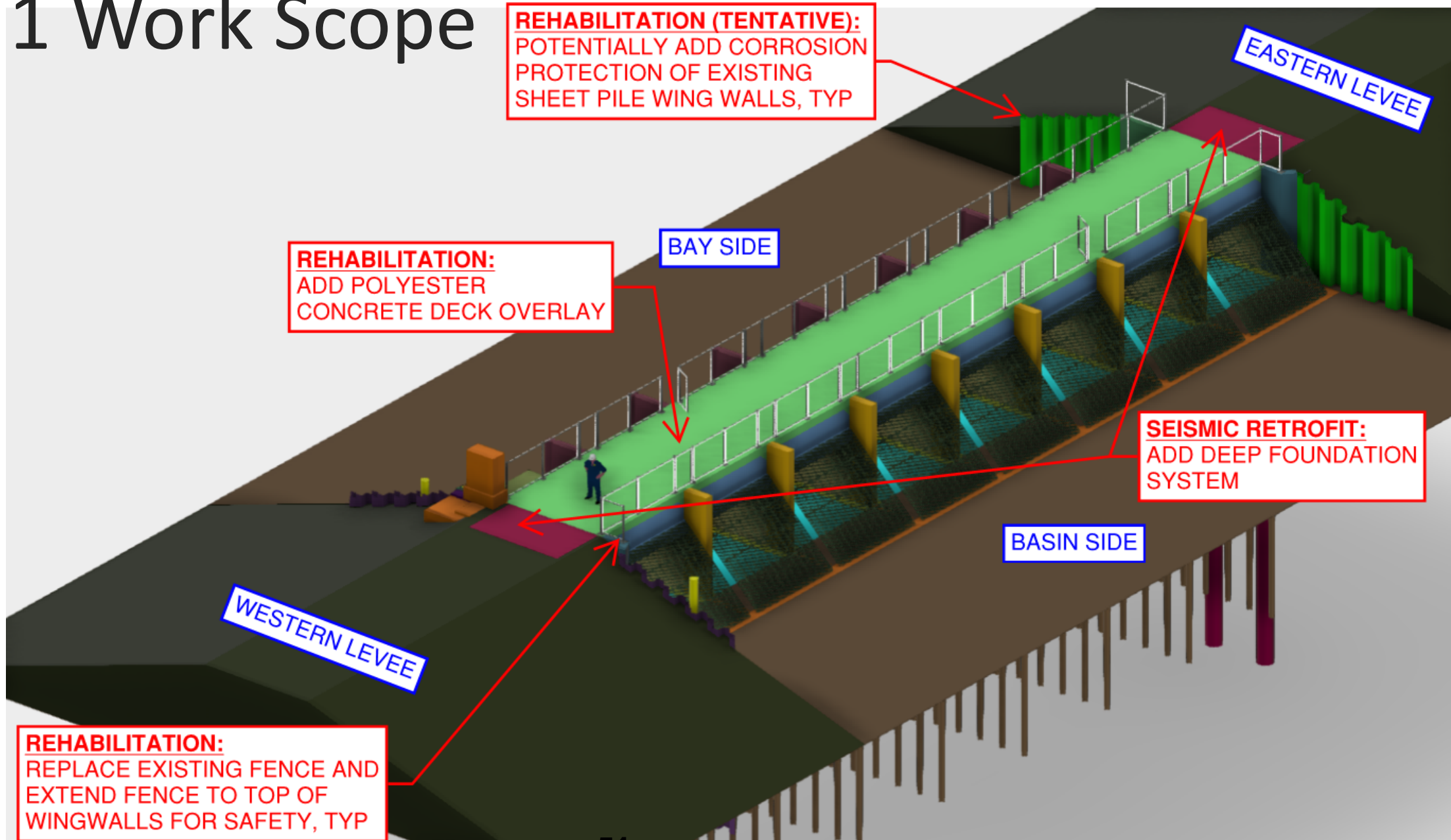
Existing Tide Gate Structure Condition



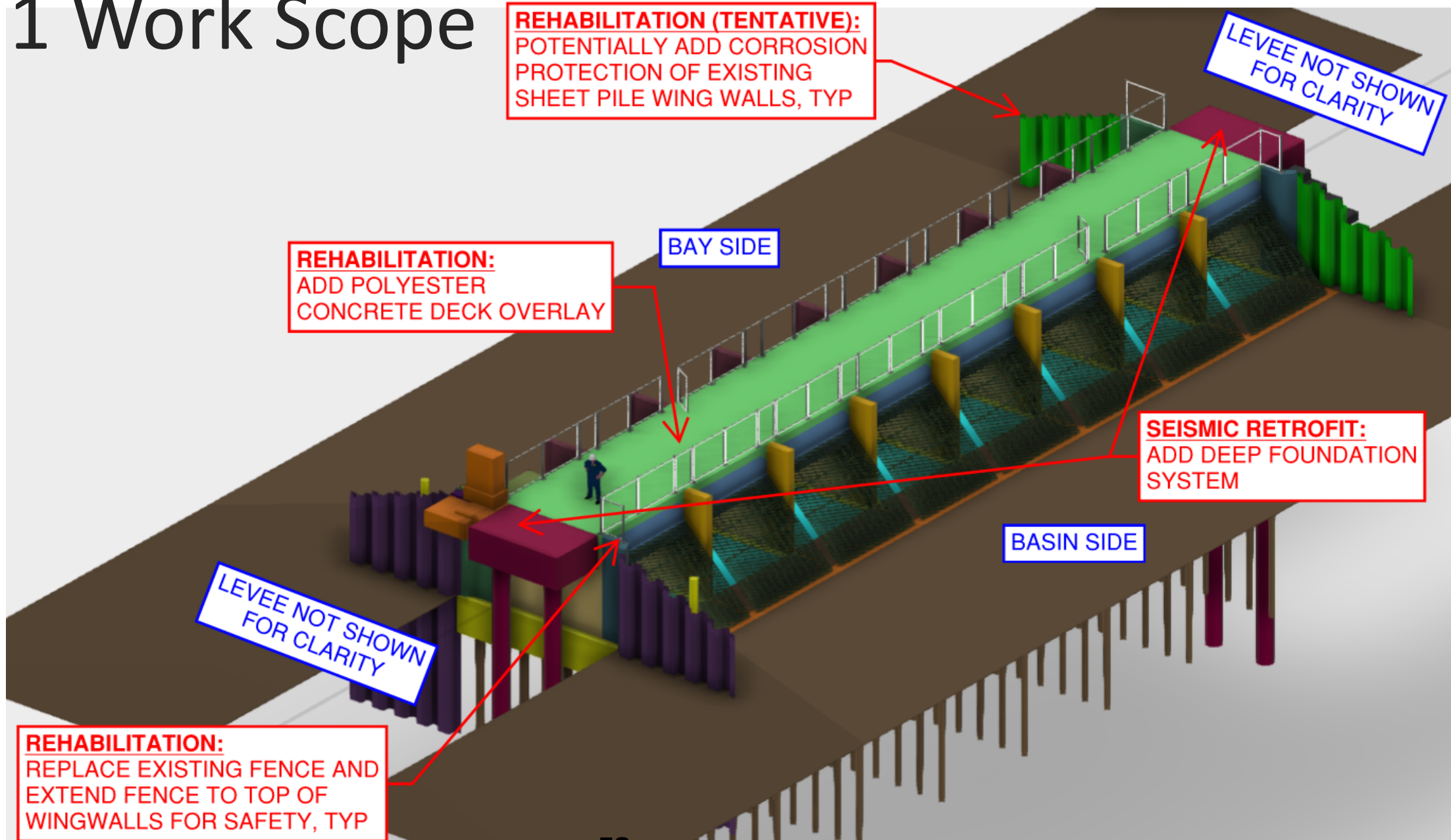
Existing Tide Gate Structure Condition



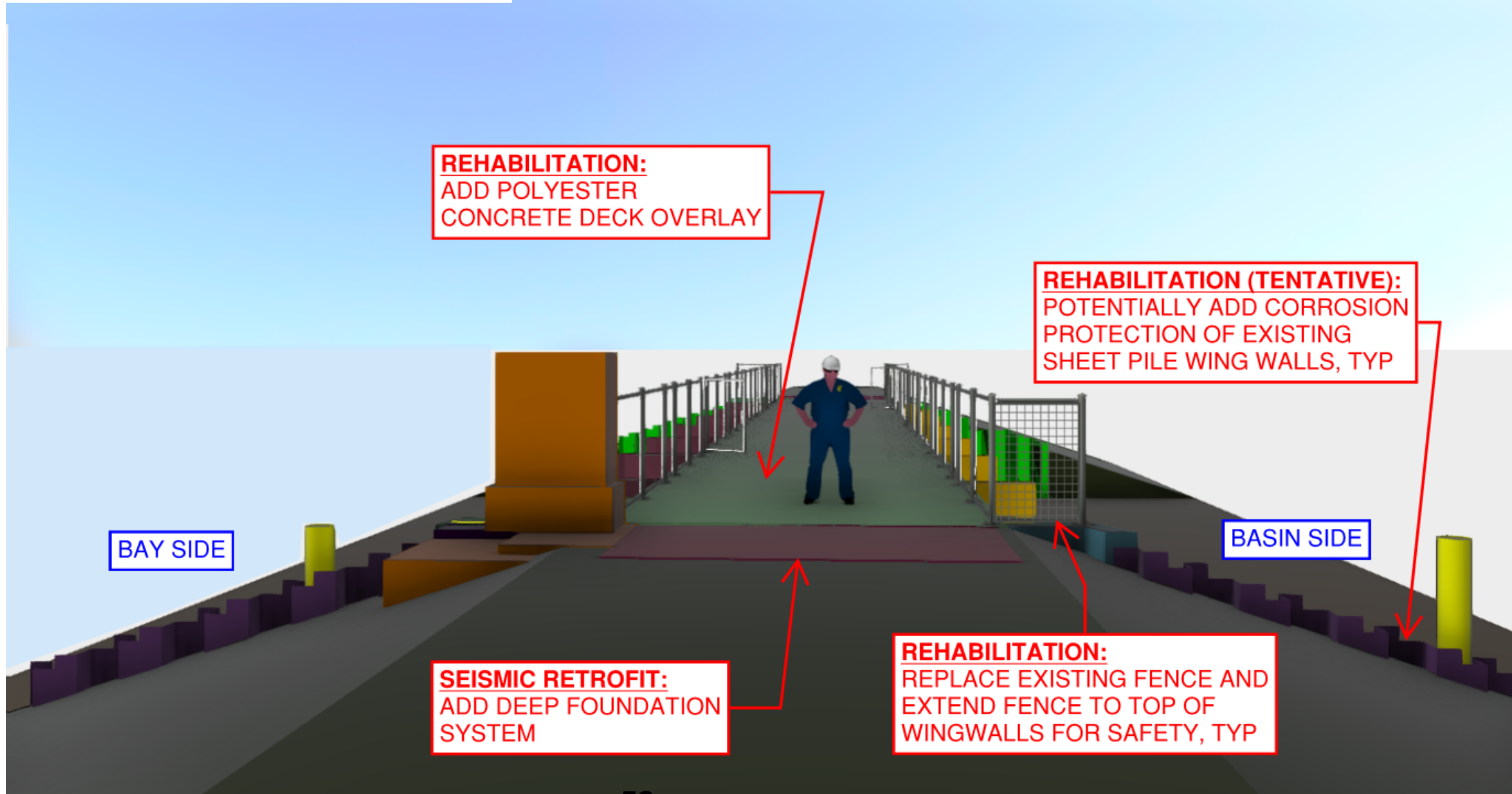
Phase 1 Work Scope



Phase 1 Work Scope



Phase 1 Work Scope



Phase 1 Work: Key Target Schedule Dates

1. Complete 60% Design: December 2023
2. Complete 90% Design: March 2024
3. Acquire All Environmental Regulatory Permits & Complete CEQA Process: August 2024
4. Complete 100% Design: October 2024
5. Board Approval to Advertise for Bids for Construction: February 2025
6. Board Approval to Award Project Construction: April 2025
7. Contractor Notice to Proceed: May 2025
8. Contractor On-Site Work: September 2025 - January 2026

Phase 1 Work : Project Cost Estimate

Estimated remaining expenses:

- Environmental = \$0.2M
- Design = \$1.1M
- Estimated Construction & Closeout = \$3M (Contractor & VW labor)
- Estimated total remaining Project expenses = \$4.3M

After Completion of Phase 1 Work

1. Perform annual structural assessments
2. Perform underwater inspections every four years
3. Keep up with minor maintenance items

Palo Alto Flood Basin Tide Gate Structure Seismic Retrofit and Rehabilitation Project Site Map



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Santa Clara Valley Water District

File No.: 23-0984

Agenda Date: 10/16/2023

Item No.: 4.5.

COMMITTEE AGENDA MEMORANDUM Capital Improvement Program Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Overview of the Annual Capital Improvement Program Process and Integrated Financial Planning Schedule for Capital Projects, and Review of the Currently Unfunded Projects.

RECOMMENDATION:

- A. Receive overview of the Annual Capital Improvement Program Process and Integrated Financial Planning Schedule;
- B. Review list of Currently Unfunded Capital Projects; and
- C. Provide feedback as necessary.

SUMMARY:

The annual update of the Capital Improvement Program (CIP) Five-Year Plan includes project plan updates for all existing capital projects and a Validation Process to review and evaluate potential new capital projects for inclusion in the CIP, along with review points for the CIP Committee and decision points for the Board. A presentation that shows the steps in detail, along with an integrated financial planning schedule, is included in the Annual CIP Process PowerPoint (Attachment 1).

Annual CIP Process Overview

Each year, Santa Clara Valley Water District (Valley Water) staff can submit new projects to be considered for inclusion in Valley Water's CIP. For each potential new project, staff develops a business case to compare capital, non-capital, and non-asset alternative solutions; evaluates the lifecycle costs of these solutions; and identifies a recommended solution that minimizes lifecycle cost while balancing service levels and risk.

In May through September, staff submits the business case for review by their respective Deputy Operating Officer (DOO) or Deputy Administrative Officer (DAO). If staff's respective DOO/DAO approves the project, it is submitted to the CIP coordinator. Simultaneously, project managers update

their existing capital projects to reflect changes to scope, schedule, and project cost/planned expenditures, which must also be approved by the respective DOO/DAO.

Between October and November each year these newly-proposed, initially validated projects will be presented to the CIP Committee and Board, along with a list of currently unfunded projects, which have been validated during prior years, for review and comment. Committee and Board feedback will be considered when preparing the funding scenarios for the CIP Preliminary Five-Year Plan.

Newly Implemented Funding Categories

As funding constraints due to rising capital costs continue to be addressed, and in response to recent recommendations from the CIP Performance Audit, staff has developed Funding Categories to enhance the Funding Filters tool.

Categories 1 and 2 focus on further prioritizing existing infrastructure projects based on their Business Risk Exposure (BRE) scores as assigned in the Asset Management Plan. Category 3 applies to existing infrastructure projects that have a lower risk of failure, and new infrastructure projects.

Further details of the three Categories are as follows:

1. Category 1: ≥ 19 points

Category 1 Projects meet Valley Water's objectives to repair/replace its existing infrastructure within certain timeframes, targeting the inclusion of projects with an AMP BRE score that is ≥ 88 and have public health and safety benefits. In addition, projects that are currently in the construction phase or externally mandated (required by law, regulation, federal order, lawsuit, etc.) are automatically included in Category 1.

2. Category 2: 13-18.5 points

Category 2 Projects meet Valley Water's objectives to repair/replace its existing infrastructure within certain timeframes, targeting the inclusion of projects with an AMP BRE score that is between 76-87 and have public health and safety benefits.

3. Category 3: ≤ 12.5

Category 3 Projects have a lower risk of failure and an AMP BRE score of ≤ 75 , which includes existing infrastructure projects and new infrastructure projects, as identified/prioritized in Valley Water's Master Plans and Program Plans. In addition, small capital improvement projects and placeholder projects are automatically included in Category 3.

Valley Water's CIP Five-Year Plan includes projects that meet the criteria for all three Categories, all of which are critical to meeting Valley Water's mission. In alignment with Ends Policies, the Board may approve the funding of projects in any category.

Each of the Initially Validated/Unfunded existing infrastructure projects have been ranked based on points received according to the funding filters and BRE scores. New infrastructure projects are

automatically placed in Category 3, as referenced above.

Initially Validated Unfunded Projects

There are two currently validated unfunded projects and seven newly-proposed, initially validated projects that were submitted. Project descriptions of each of the Initially Validated Unfunded Projects are included in Attachment 2. A high-level overview of the Initially Validated Unfunded Projects List, see the table below:

Project Name	Total Project Cost (\$ thousands w/inflation)	Phase	Potential Funding Source	FY 2023-24 Funding Category
FY 2023-24 Initially Validated Projects				
Sustainable Creek Infrastructure Program (SCIP)	\$25,070	N/A	Funds 12/26	Category 1 – Existing Infrastructure (Funding Identified)
SCIP Regnart Creek Rehabilitation	\$8,967	Design	Funds 12/26	Category 1 – Existing Infrastructure (Funding Identified)
SCIP Permanente & Hale Creek Concrete Replacement	\$20,810	Design	Funds 12/26	Category 1 – Existing Infrastructure (Funding Identified)
SCADA* Master Plan Implementation Project (SMPPIP)	\$10,425	Design	Fund 61	Category 2 – Existing Infrastructure
Alamitos Operable Dam Replacement	\$9,898	N/A	Fund 61	Category 3 – Existing Infrastructure
San Jose Purified Water Project	\$49,957	N/A	Fund 61	Category 3 – NEW Infrastructure
Coyote 10B Freshwater Wetlands	\$8,900	N/A	Fund 12	Category 3 – NEW Infrastructure
Current Unfunded Projects				
South Babb Flood Protection-Long Term	\$22,183	N/A	Fund 12	Category 3 – Existing Infrastructure
Pond A4 – Construction ONLY	\$33,706	Construction	Fund 12	Category 3 – NEW Infrastructure

*Supervisory Control and Data Acquisition

Development of the CIP Preliminary Five-Year Plan

In the fall of every year, an overview of the significant project plan updates from the prior year's adopted CIP are presented to the CIP Committee for information and feedback. During this same time, CIP and Finance staff compile the data from existing CIP project plans, collect the operational forecast information, and run the financial models.

The CIP Evaluation Team (Chief Executive Officer (CEO), Assistant CEO, Chiefs and Deputies of the divisions initiating, delivering, implementing, and operating capital projects) meets in November of each year to review the financial models and determine which, if any, unfunded projects should be recommended for inclusion in the CIP. To ensure Valley Water's high priority business needs are met in adherence to Board policy, the CIP Evaluation team reviews the projects based upon:

- Board Priorities
- Asset's remaining lifespan
- Available funding
- Urgency of investment

Based upon the outcome of its review, the CIP Evaluation Team provides recommendations regarding whether the new proposed capital projects should be funded in the CIP upcoming Preliminary Five-Year Plan or remain on the unfunded list. Funding scenarios that include these

recommendations will be presented to the CIP Committee for review and feedback in December, along with the CIP Preliminary FY 2025-29 Five-Year Plan.

Each January, CIP and Finance staff update the funding scenarios to include staff and CIP Committee recommendations, which will be presented to the full Board during a Funding Scenario Workshop, as part of the CIP's Preliminary Five-Year Plan and Groundwater Charges item. Funding decisions will be made by the Board through its approval of CIP Preliminary FY 2025-29 Five-Year Plan.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: PowerPoint

Attachment 2: Initially Validated/Unfunded Projects

UNCLASSIFIED MANAGER:

Luz Penilla, 408-630-2228



Development of Preliminary FISCAL YEAR 2025-2029 (FY 25-29)

Capital Improvement Program (CIP) Annual Process Overview

Presented by:

Luz Penilla, Assistant Officer

Office of Integrated Water Management

CIP Committee – October 16, 2023

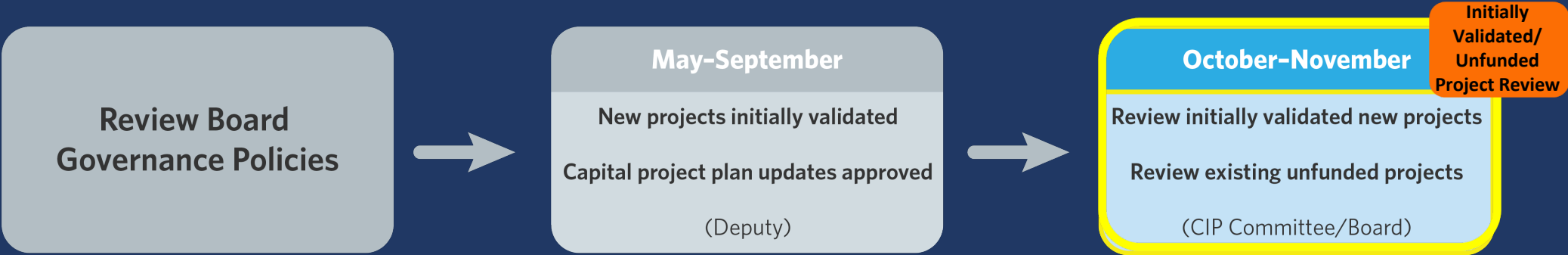


Presentation Outline

1. Annual CIP Process
2. Integrated Financial Planning Schedule
3. Unfunded Project List
 - A. FY 2023-24 Initially Validated Projects
 - B. Current Unfunded Capital Projects
4. Next Steps





Annual CIP Process



CIP Five-Year Plan development and review with CIP Committee and Board



 Points where validation and evaluation occur and when CIP Committee and Board may provide feedback.

 Key process steps and decision points for the Board.

CIP Five-Year Plan public review and Board approval



Integrated Financial Planning Schedule

REF #	MEETING		MILESTONE
	CIP CMTE	BOARD	
1	9/18/23		Water Supply Workshop/Funding Filters for Prioritization Presentation
2		9/19/23	Water Supply Workshop/Funding Filters for Prioritization Presentation
3	10/16/23		Annual Overview of CIP Process Overview, Integrated Financial Planning Calendar, New, & Unfunded Projects
4	11/13/23		CIP Project Plan Updates From Adopted FY24-28 Plan
5		11/14/23	Annual CIP Process Overview, Integrated Financial Planning Calendar, New, & Unfunded Projects Presentation
6		11/28/23	Water Rate Planning Overview
7	12/11/23		CIP Preliminary Five-Year Plan Funding Workshop (Financial Modeling & Significant Updates)
8		12/12/23	Budget Process Planning Overview
9		1/9/24	Five-Year WS & WU O&M Plans / WU Master Plan Implementation Projects CIP Preliminary 5-yr Plan Workshop (Financial Modeling & Significant Updates) CIP SCW/WS Preliminary 10-yr Financial Analysis Preliminary Water Rate Analysis & Scenarios } Combined Presentation
10		1/23/24	SCW Public Hearing (If Required) 1 st Pass Budget Update
11		2/13/24	Draft CIP (Authorize to Distribute for Public Review)
12		3/12/24	2 nd Pass Budget Update
13		4/9/24	Ground Water Charge Public Hearings Begin CIP Public Hearing Begins (Optional Date 4/23)
14		4/11/24	Ground Water Charge Public Hearing in South County (Gilroy)
15		4/23/24	Ground Water Charge Public Hearings Close
16		4/24/24	Budget Work-study Session
17		5/14/24	Board Adoption of Water Rates, CIP, Budget, Investment and Debt Resolutions (w/Final CIP and Budget Reports Completed by 6/28/24)
18		6/28/24	FY25 Rate Notifications: Website and Mailers (Retailers and All Customers)

LEGEND

CIP

Budget

Water Rates

Safe Clean Water (SCW)

Asset Management (AM)

Initially Validated and Currently Unfunded Projects

Project Name	Total Project Cost (\$ thousands w/inflation)	Phase	Potential Funding Source	FY 2023-24 Funding Category
FY 2023-24 Initially Validated Projects				
Sustainable Creek Infrastructure Program (SCIP)	\$25,070	N/A	Funds 12/26	Category 1 – Existing Infrastructure (Funding Identified)
SCIP Regnart Creek Rehabilitation	\$8,967	Design	Funds 12/26	Category 1 – Existing Infrastructure (Funding Identified)
SCIP Permanente & Hale Creek Concrete Replacement	\$20,810	Design	Funds 12/26	Category 1 – Existing Infrastructure (Funding Identified)
SCADA* Master Plan Implementation Project (SMPPI)	\$10,425	Design	Fund 61	Category 2 – Existing Infrastructure
Alamitos Operable Dam Replacement	\$9,898	N/A	Fund 61	Category 3 – Existing Infrastructure
San Jose Purified Water Project	\$49,957	N/A	Fund 61	Category 3 – NEW Infrastructure
Coyote 10B Freshwater Wetlands	\$8,900	N/A	Fund 12	Category 3 – NEW Infrastructure
Current Unfunded Projects				
South Babb Flood Protection-Long Term	\$22,183	N/A	Fund 12	Category 3 – Existing Infrastructure
Pond A4 – Construction ONLY	\$33,706	Construction	Fund 12	Category 3 – NEW Infrastructure

*Supervisory Control and Data Acquisition

Next Steps

1. November 2023 – CIP Committee reviews Significant Project Plan Updates and Board receives Annual CIP Process Overview;
2. December 2023 – CIP Committee reviews CIP Preliminary Five-Year Plan; and
3. January 2024 – Board reviews and provides direction regarding CIP Preliminary Five-Year Plan.



QUESTIONS





Valley Water

Clean Water • Healthy Environment • Flood Protection

INITIALLY VALIDATED UNFUNDED PROJECTS

1. Sustainable Creek Infrastructure Program (SCIP) – Category 1 Existing Infrastructure (Funding Identified)

Requestors: Asset Management and Deputy Operating Officer Watersheds Operations and Maintenance. Approximately 15% of Valley Water’s Watershed assets may currently be operating at levels inconsistent with their original design levels of service. An asset’s risk assessment considers the probability of failure (based on current condition and performance) and consequence of failure (direct and/or indirect costs of failure). The Watersheds Operations and Maintenance (O&M) Division and staff leading the Watersheds Asset Rehabilitation Program (WARP) have been successful in planning and executing necessary stream maintenance projects, primarily as part of the Stream Maintenance Program (SMP). However, in recent years, Valley Water recognized the need to evaluate stream maintenance from a more strategic and holistic planning approach, as well as to identify asset rehabilitation needs for past flood protection projects.

Consequently, Valley Water proposed inclusion of a new project as part of the renewed Safe, Clean Water (SCW) Program: Project F8, Sustainable Creek Infrastructure for Continued Public Safety. Under Project F8, Valley Water is working to identify, prioritize, and implement needed asset rehabilitation projects outside the purview of Watersheds O&M and/or that would benefit from systemic and geomorphic solutions. Asset rehabilitation work being investigated and identified as part of this project includes restoring the level of service originally intended for flood protection infrastructure; extending the life of flood protection infrastructure; and improving the reliability of flood protection infrastructure. Total project cost estimate = \$25,070 Million and duration = 15 years.

2. SCIP Regnart Creek Rehabilitation Project – Category 1 Existing Infrastructure (Funding Identified)

Requestors: Asset Management and Deputy Operating Officer Watersheds Operations and Maintenance. Regnart Creek experiences severe incision and bank erosion that can impact adjacent properties and undercut creek infrastructure throughout the reach from Festival Drive to Highway 85. The steep banks have been relatively stable over the years, but winter storms in 2023 caused additional bank failure and resulted in downed trees along the creek. Neighboring properties have been observed to likely encroach near or over the creek banks with fences or decks, which have been damaged by bank and tree failure. These potential encroachments may continue to impact to the creek and the residential properties.

In April 2023, a geotechnical consultant performed a bank risk assessment and identified areas of concern where a prioritized response is recommended. In addition, there are many trees on the banks that help stabilize and protect the banks, but also may impact nearby improvements in the event of failure. Some of these trees are well over 12” in diameter at breast height and/or are an invasive species. In the past, arborists have identified and implemented corrective measures to lighten the canopy and reduce the risk of failure. These short-term recommendations may be carried out by the Watersheds O&M Division in the next fiscal year.

However, a long-term solution is necessary to reduce further creek incision and to stabilize the bed and bank. A rehabilitation design using geomorphic principles has been proposed in the Regnart Creek Rehabilitation Design Study, conducted by the Asset Management Unit.

The proposed project will ultimately rehabilitate Regnart Creek to an equilibrium steady state to reduce the risk of bank failures that may impact adjacent private and public property. To achieve this objective, a capital project would be pursued to implement the recommended geomorphic-based rehabilitation design and fully repair the banks at localized areas where bank failure occurred in winter 2023 (near Bubb Road and Wallin Court). This would help minimize the risk of bank failure, stabilize the channel, and provide a better sediment-flow balance to minimize future erosion from occurring. Based on the 2017 Regnart Creek AMP, the remaining useful life of the creek in this reach is estimated to be between 5 to 25 years.

This project originated from the Watersheds Operations & Maintenance Engineering Support Unit (Unit 298) due to the many challenges that are beyond the purview of Watersheds O&M resources and environmental permits, and the existing erosion and incision issues documented in the 2017 Asset Management Plan (AMP). Anticipated challenges include multiple potential encroachments with adjacent property owners, limited access for construction equipment due to lack of maintenance roads, ramps, and dense vegetation and large trees within the channel, and the extent of erosion is approximately 1,000 linear feet (LF) with potential project limits of 2,250 LF, which is beyond the limits of the Stream Maintenance Program. Total project cost estimate = \$8,967 Million and duration = 3-4 years.

3. SCIP Permanente & Hale Creek Concrete Replacement – Category 1 Existing Infrastructure (Funding Identified)

Requestors: Asset Management and Deputy Operating Officer Watersheds Operations and Maintenance Jennifer Codianne. Permanente and Hale Creeks both contain concrete U-frame channels that are near or have passed their design life. The existing concrete U-frames on both channels were constructed in the 1960's. The structural deficiencies of both channels include wall deflection, concrete cracking in walls and slabs, exposed reinforcement, additional load due to tree roots spreading behind the walls, and spillage of backfill and foundation material through weepholes. In March 2023, an assessment was conducted by a structural consultant resulting in a recommendation that the channels at the two project reaches be prioritized for repairs. The deflection and cracking conditions accelerate reinforcement corrosion leading to substantial loss of wall capacity and making the wall susceptible to performing under expectations.

Additionally, an arborist report from 2019 recommended tree removal along these reaches with some trees greater than 12" in diameter at breast height. Tree removal is recommended due to the increased loads superseding the initial design capacity and would need to be removed for the replacement of the existing U-frame channels. A short-term solution to the structural deficiencies will likely be performed under Valley Water's Stream Maintenance Program and implemented through Watersheds Asset Rehabilitation Project (WARP) with a targeted completion in 2024. The short-term solution involves controlling the channel deflection by bracing the walls and providing a temporary fix.

The project is currently in the planning phase and will employ steel and frame repair method to minimize the cost and extend existing infrastructure lifespan. However, a long-term solution is necessary to address performance of the channel walls. The project's objective is to initiate a CIP project with the full planning, design, and construction phases to replace the existing U-frame channels, identified for both creek reaches on Permanente and Hale Creek, to prevent the channel walls from collapsing and flooding the neighborhood areas.

To achieve this objective, a planning study is recommended to explore the issues concerning potential encroachments, tree impacts, 100-year capacity, HSLA/ESA studies, right of entry, and evaluate more design options. Furthermore, the solution will require a new CEQA document, public outreach, and regulatory permits. The project originated from the Watersheds Operations and Maintenance Engineering Support Unit (Unit 298) due to the many challenges that are beyond the limits of Watersheds O&M resources. Anticipated challenges include multiple potential encroachments with adjacent property owners, and large trees along the channel. Total project cost estimate = \$20,810 Million and duration = 3-4 years.

4. SCADA (Supervisory Control and Data Acquisition) Master Plan Implementation Project (SMPIP) – Category 2 Existing Infrastructure

Requestors: Asset Management and Deputy Operating Officer Office of Integrated Water Management. Valley Water's SCADA system currently utilizes a combination of communications equipment, some of which was installed during projects dating back to the 1960s. The aging equipment presents operational challenges. Some technologies in use are nearing obsolescence and O&M has experienced significant difficulties in obtaining provider support during previous SCADA communications outages, both lengthening the duration of the outages and putting additional strain on Raw and Treated Water Operations staff. Valley Water's Raw Water System Control Operators rely on an available and functioning SCADA system for real-time command and control of the raw water conveyance system's reservoirs, pumping plants, pipelines, and turnouts, including for sourcing raw water to the drinking water treatment plants.

Failures of SCADA impact Operation's ability to remotely monitor and control the water supply, conveyance, and distribution system infrastructure, could potentially lead to the inability to adequately supply water to the treatment plants or to effectively manage flows of water from the reservoirs during flood events. Total project cost estimate = \$10,425 Million and duration = 9 years.

5. Alamitos Operable Dam Replacement - Category 3 Existing Infrastructure

Requestors: Raw Water Operations and Deputy Operating Officer Raw Water. The Alamitos Flashboard Diversion Dam is located on the Guadalupe River. The existing flashboard dam is used by Valley Water to exercise its water rights to impound water into the Alamitos and Guadalupe recharge facilities for percolation into the groundwater basin. Water from the Alamitos Diversion Dam is diverted to the Alamitos and Guadalupe recharge facilities only during the dry season to avoid periods of high creek flow.

Due to a high demand for field crews during the winter period, it is challenging to install and remove the flashboard dam more than once each year. This results in lost opportunity to fully exercise the water rights and increase the use of local water in these ponds. This proposed

project is to replace the Alamitos Flashboard Diversion Dam with an Obermeyer Weir. This includes planning, design, and construction of a new Obermeyer Weir and the associated control building and mechanical equipment. Benefits include: improvement of the facility to allow for faster transitions between having the dam up and impounding flows to having the dam down to allow high creek flows to continue downstream and improvement of the facility to allow for the dam to be remotely operated from outside the creek bed, requiring less staff and construction equipment. Total project cost estimate = \$9.898 Million and duration = 3-4 years.

6. San Jose Recycled/Purified Water Project – Category 3 NEW Infrastructure

Requestors: Recycled and Purified Water and Assistant Officer Water Supply Kirsten Struve. The construction and implementation of a Direct Potable Reuse (DPR) demonstration facility will serve as the first phase for a full scale DPR partnership adjacent to the Silicon Valley Advanced Water Purification Center (SVAWPC). The primary objective of this facility is to generate operational data, design insights, and other relevant information. These will help expedite regulatory approvals and design for the potential development of a full-scale advanced water purification facility in the future.

The demonstration facility will provide scientists and engineering staff with the opportunity to test purification processes. The goal is to demonstrate that the purified water produced meets the highest water quality standards, ensuring the protection of human health. By developing a DPR demonstration facility, Valley Water and the Cities of San José and Santa Clara will be well-prepared for the implementation of a future Purified Water Project-Direct Potable Reuse Project in San Jose. This facility will facilitate the approval of innovative purification technology necessary to meet newly proposed, stringent DPR regulatory criteria. Additionally, the project will include an Educational (Learning) Center. This center will serve as a platform for public visits, student engagement, and technical expert interactions. It aims to educate visitors about cutting-edge purification research and ensure public acceptance of potable reuse. Total project cost estimate = \$49,957 million and duration = 5-6 years.

7. Coyote 10B Freshwater Wetlands Project – Category 3 NEW Infrastructure.

Requestors: Operations and Maintenance Environmental Support and Deputy Operating Officer Watersheds Operations and Maintenance. Coyote 10B is an abandoned gravel pond that could be enhanced to provide seasonal wetland and riparian habitat. In 2005, the abandoned quarry pond, a steep-sided pond, was measured and had an average depth of about 8 to 10 feet and a maximum depth of 13 feet. The conceptual plan has identified the Coyote 10B site as a mitigation site that can provide approximately 7 acres of seasonal wetland, and the potential to also provide riparian habitat, and high water refugia for fish for the SMP mitigation program. Additionally, this project would be one of several mitigation projects occurring along Coyote Creek, including the Ogier Ponds and Coyote Percolation Ponds Dam and fish passage project, thereby supporting watershed wide restoration and enhancement activities. Coyote 10B is located at HWY 101 and Metcalf Road to the east side of Valley Water's Coyote Dam and adjacent to the Coyote Parkway Freshwater Wetland.

The Coyote Parkway Freshwater Wetland, also referred to as Coyote 10A, was a project that was part of the SMP-1 mitigation package that established the current SMP PMA. The site is located just upstream of the interchange of Highways 101 and 85. The site is bounded to the northeast

by Highway 101, historical Coyote Creek to the west and south, and Valley Water's percolation pond and the Coyote Parkway Freshwater Wetland to the south and east. Valley Water owns the project site and the adjacent Coyote Percolation Pond. The project site and adjacent quarry pond were acquired from the County of Santa Clara and the acquisition was finalized in May 2005. SMP-3 is scheduled to begin its new program/permit cycle in 2027.

Therefore, the timeline for implementing the Coyote 10B seasonal freshwater wetland creation will have to follow closely with other mitigation projects planned for Coyote Creek as part of the larger Anderson Dam retrofit. Coyote Percolation Dam Phase 1 (installation of inflatable dam), adjacent to the quarry projected construction is summer 2023. The Phase 2 fish passage project is expected to be completed by end of 2026. Total project cost estimate = \$8.900 Million and duration = 3-4 years.

CURRENTLY UNFUNDED PROJECTS FOR POTENTIAL INCLUSION IN THE CIP FY2025-29 (VALIDATED LAST CIP CYCLE)

1. South Babb Flood Protection (Long-Term) – Category 3 Existing Infrastructure

Requestors: Hydrology, Hydraulics and Geomorphology and Deputy Operating Officer Watershed Stewardship and Planning. Recent modeling indicates that there is significant spilling from culverts along South Babb Creek. These spills contribute to flooding of nearby areas, particularly between South Babb Creek, Lower Silver Creek, and Story Road. The recommended project improves the culverts at Lochner Drive, White Road, and Farrington Drive on South Babb Creek. While this will not eliminate all the spilling from South Babb Creek during the 100-year event, the majority of spills would be eliminated.

In the hydraulic feasibility and preliminary constraints analysis report, a design was proposed where the Lochner Drive, White Road, and Farrington Drive culverts would be converted to voided slab bridges with a trapezoidal concrete channel underneath. A planning study would be required to evaluate other alternatives that would meet the same goal of reducing flooding risk to the area between South Babb Creek, Lower Silver Creek, and Story Road. Total project cost estimate = \$22,183 Million and duration = 5-6 years.

2. Pond A4 Construction ONLY – Category 3 NEW Infrastructure.

Requestors: Watershed Stewardship and Planning and Deputy Operating Officer Watershed Stewardship and Planning. The Pond A4 Project will be constructed in two phases. Phase 1 includes planning, design, and permitting for the full project; improving the existing maintenance road; and reusing SMP sediment to construct a staging area. Phase 1 is currently in the funded CIP FY2024-28 Five-Year Plan. Phase 2 (Construction) will include sediment delivery and reuse to create the ecotone, restoring nearly 50 acres of marsh, mud flat, transitional, and upland habitat. Total project cost estimate = \$33,706 Million and duration = 12-13 years.

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Santa Clara Valley Water District

File No.: 23-0985

Agenda Date: 10/16/2023

Item No.: 4.6.

COMMITTEE AGENDA MEMORANDUM **Capital Improvement Program Committee**

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Review 2023 Capital Improvement Program Committee Work Plan.

RECOMMENDATION:

Review the 2023 Capital Improvement Program Committee Draft Work Plan and make adjustments, as necessary.

SUMMARY:

Work Plans are created and implemented by all Board Committees to increase Committee efficiency, provide increased public notice of intended Committee discussions, and enable improved follow-up by staff. Work Plans are dynamic documents managed by Committee Chairs and are subject to change. Committee Work Plans also serve to assist to prepare an Annual Committee Accomplishments Reports.

Discussion of topics as stated in the Plan have been described based on information from the following sources:

- Items referred to the Committee by the Board;
- Items requested by the Committee to be brought back by staff;
- Items scheduled for presentation to the full Board of Directors; and
- Items identified by staff.

Regular monthly meetings are scheduled to occur at 11:00 a.m., on the third Monday of each month or at the call of the Committee Chair.

Establishing a work plan and meeting schedule are necessary to provide staff a basis for meeting planning and logistics coordination and agenda item preparation. Attachment 1 is the 2023 CIP committee work plan for review and comments by the CIP committee.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: 2023 CIP Committee Work Plan

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

CIP Committee 2023 Work Plan

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Capital Project Monitoring												
Feasibility/Planning	X			X				X		X		
Design/Permitting	X				X			X			X	
Construction			X			X			X			X
Projects in Mitigation/Plant Establishment						X						
CIP Implementation												
Water Treatment Plant Master Plan Implementation	X											
Pond A4 Resilient Habitat Restoration			X									
Design-Build Projects Update						X						
Construction Contract Contingency and Change Order Management						X						
Guadalupe River – Tasman to 880 Alternatives								X				
Pre- and Post-Award Contract Administration									X			
Palo Alto Flood Basin Tide Gate Structure Replacement Project										X		
Climate Change Action Plan												
Headquarters Operations Building Planning												
Master Plan/Implementation Projects												
CIP Development												
Final CIP Performance Audit									X			
Water Supply Capital Workshop									X			
CIP Planning Process												
• Annual CIP Process and Integrated Financial Planning Schedule and Review of Initially Validated and Unfunded Projects										X		
• Review Significant Project Plan Updates											X	
Preliminary CIP Review												X
Standing Items												
Anderson Dam Tunnel Project Contingency and Change Order Monitoring	X	X	X	X	X	X		X	X	X	X	X
Upcoming Consultant Agreement Amendments	X	X	X	X	X	X		X	X	X	X	X
Workplan	X	X	X	X	X	X		X	X	X	X	X
Minutes	X	X	X	X	X	X		X	X	X	X	X
Annual Election of Committee Officer	X											

Canceled

Recess

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