



Santa Clara Valley Water District Capital Improvement Program Committee Meeting

District Headquarters, Board Conference Room A-124
5700 Almaden Expressway, San Jose, CA 95118

REGULAR MEETING AGENDA

**Monday, December 9, 2019
10:00 AM**

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

Nai Hsueh, Chair, District 5
Linda J. LeZotte, Vice Chair, District 4

Tony Estremera, District 6

All public records relating to an 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 for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarters Building, 5700 Almaden Expressway, San Jose, CA 95118, 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 attend Board of Directors' meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

BETH REDMOND
Committee Liaison

NATALIE F. DOMINGUEZ,
CMC
Assistant Deputy Clerk II
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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
REGULAR MEETING
AGENDA**

Monday, December 9, 2019

10:00 AM

District Headquarters, Board Conference Room
A-124
5700 Almaden Expressway, San Jose, CA 95118

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: This item is reserved for persons desiring to address the Committee on any matter not on this agenda. Members of the public who wish to address the Committee on any item not listed on the agenda should complete a Speaker Form and present it to the Committee Clerk. The Committee Chair will call individuals in turn. Speakers comments should be limited to three minutes or as set by the Chair. The law does not permit Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If 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 Committee may take action on any item of business appearing on the posted agenda.

3. APPROVAL OF MINUTES:

3.1. Approval of November 18, 2019 Meeting Minutes.

[19-1112](#)

Recommendation: Approve the minutes.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: 111819 CIP Committee Minutes](#)

Est. Staff Time: 5 Minutes

4. ACTION ITEMS:

- 4.1. Update on the Palo Alto Flood Basin Tide Gate Structure Improvements Project, Project No. 10394001, (City of Palo Alto, District 7). (Continued From November 18, 2019) [19-1144](#)
- Recommendation: Receive the Update on the Palo Alto Flood Basin Tide Gate Structure Improvements Project.
- Manager: Ngoc Nguyen, 408-630-2632
- Attachments: [Attachment 1: Map](#)
[Attachment 2: Alternative B Construction Staging](#)
[Attachment 3: Alternative C Construction Staging](#)
[Attachment 4: Feasible Alternatives Matrix](#)
[Attachment 5: PowerPoint](#)
- Est. Staff Time: 10 Minutes
- 4.2. Capital Project Monitoring - Design. [19-1113](#)
- Recommendation: Receive and discuss information regarding the status of capital projects in the design phase.
- Manager: Tim Bramer, 408-630-3794
Christopher Hakes, 408-630-3796
Ngoc Nguyen, 408-630-2632
- Attachments: [Attachment 1: Capital Project Monitoring - Design](#)
- Est. Staff Time: 15 Minutes
- 4.3. Draft Preliminary Capital Improvement Program Fiscal Years 2021-2025. [19-1114](#)
- Recommendation: Review and discuss the Draft Preliminary Fiscal Years 2021-2025 Capital Improvement Program and provide recommendations to staff as needed.
- Manager: Christopher Hakes, 408-630-3796
- Attachments: [Attachment 1: Draft Preliminary FY 2021-2025 CIP](#)
[Attachment 2: Draft Preliminary CIP Financial Models](#)
- Est. Staff Time: 30 Minutes

- 4.4. Receive Updated Analysis Regarding the Capital Improvement Program Committee's Recommended Funding Scenario for Safe, Clean Water and Natural Flood Protection Program Flood Protection Projects. [19-1165](#)

Recommendation: A. Receive updated analysis regarding the Capital Improvement Program (CIP) Committee's recommended funding scenario for Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) Flood; and
B. Protection Projects; and Provide feedback to staff, as necessary.

Manager: Melanie Richardson, 408-630-2035
Nina Hawk, 408-630-2736

Attachments: [Attachment 1: Updated Funding Scenarios](#)
[Attachment 2: Change Control Process](#)

Est. Staff Time: 10 Minutes

- 4.5. 2019 Capital Improvement Committee Work Plan, and Proposed 2020 Work Plan and Meeting Schedule. [19-1140](#)

Recommendation: A. Review the 2019 Capital Improvement Program Committee Work Plan and make revisions as necessary;
B. Review the proposed 2020 Capital Improvement Program Committee Work Plan and make revisions as necessary; and
C. Review and approve the proposed 2020 CIP Committee meeting schedule.

Manager: Michele King, 408-2630-2711

Attachments: [Attachment 1: 2019 CIP Committee Workplan](#)
[Attachment 2: Draft 2020 CIP Committee Workplan](#)
[Attachment 3: 2020 CIP Meeting Schedule](#)

Est. Staff Time: 10 Minutes

5. INFORMATION ITEMS:

6. 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.

7. ADJOURN:

- 7.1. Adjourn to Regular Meeting at 10:00 a.m., on January 13, 2020, in the Santa Clara Valley Water District Headquarters, Board Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

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Santa Clara Valley Water District

File No.: 19-1112

Agenda Date: 12/9/2019

Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Approval of November 18, 2019 Meeting 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: 111819 CIP Committee Minutes

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711

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CAPITAL IMPROVEMENT PROGRAM COMMITTEE MEETING

MINUTES

**MONDAY, NOVEMBER 18, 2019
10:00 AM**

(Paragraph numbers coincide with agenda item numbers)

A rescheduled regular meeting of the Santa Clara Valley Water District (Valley Water) Capital Improvement Program Committee (Committee) was called to order in the Valley Water Headquarters, Conference Room A-124, 5700 Almaden Expressway, San Jose, California, at 10:00 a.m.

1. CALL TO ORDER/ROLL CALL.

Committee members in attendance were District 4 Director L. LeZotte, and District 5 Director N. Hsueh, Chairperson presiding, constituting a quorum of the Committee.

District 6 Director T. Estremera was excused.

Staff members in attendance were N. Camacho, Chief Executive Officer, S. Berning, T. Bramer, L. Bankosh, J. Collins, M. Cook, N. Dominguez, M. Ganjoo, C. Hakes, N. Hawk, L. Hoang, N. Nguyen, L. Orta, and T. Yoke.

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 present who wished to speak.

Chairperson Hsueh announced the agenda items would be discussed in the following order: Item 3.1, Item 4.4, Item 4.3, Item 4.2, Item 4.1, and Item 4.5.

3. APPROVAL OF MINUTES.

3.1. Approval of October 21 and 24, 2019 Meeting Minutes.

Recommendation: Approve the minutes.

The Committee considered the attached minutes of the October 21 and 24, 2019 meetings. It was moved by Director LeZotte, seconded by Chairperson Hsueh, and carried that the minutes be approved as presented. Director Estremera was absent.

Chairperson Hsueh moved the agenda to Item 4.4

4. ACTION ITEMS

- 4.4. Update on the Palo Alto Flood Basin Tide Gate Structure Improvements Project, Project No. 10394001 (City of Palo Alto) (District 7).

Recommendation: Receive the update on the Palo Alto Flood Basin Tide Gate Structure Improvements Project.

Mr. Afshin Rouhani, Water Policy and Planning Manager, Mr. Stephen Ferranti, Capital Engineering Manager, Mr. Karl Neuman, Capital Engineering Manager, and Ms. Jessica Collins, Watersheds Business Planning and Analysis Manager, reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachments 2 through 5, were reviewed as follows: Mr. Rouhani reviewed Item B, Upper Penitencia Creek (Attachment 2), Mr. Ferranti reviewed Item C, Upper Llagas (Attachment 3), Mr. Neuman reviewed Item D, Upper Guadalupe River (Attachment 4), and Ms. Collins reviewed Potential Funding Scenarios (Attachment 5).

The Committee noted the information on Items B through D, without formal action.

In regard to Potential Funding Scenarios, it was moved by Director LeZotte, seconded by Chairperson Hsueh, and carried to recommend Funding Scenario No. 2 to the full Board for consideration. Director Estremera was absent.

Chairperson Hsueh returned the agenda to Item 4.3.

- 4.3. Amendment to Consultant Agreement A3933A with Harris and Associates to Provide an Additional \$350,000 for Construction Management Services for the Permanente Creek Flood Protection Project – McKelvey Park Detention Basin, Project No. 26244001. (Mountain View) (District 7)

Recommendation: Receive information on the upcoming Amendment to Consultant Agreement A3933A with Harris and Associates for Construction Management Services for the Permanente Flood Protection Project – McKelvey Park Detention Basin that staff will be recommending for approval.

Mr. Nguyen reviewed the information on this item, per the attached Committee Agenda Memo.

It was moved by Director LeZotte, seconded by Chairperson Hsueh, and carried to support staff's recommendation. Director Estremera was absent.

The Committee requested staff revise the agenda memo to remove the Additional Construction Management Services section contained on Page 2.

Chairperson Hsueh returned the agenda to Item 4.2.

4.2. Capital Project Monitoring – Construction.

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

Mr. Bramer, Acting Deputy Operating Officer, Mr. Ngoc Nguyen, Deputy Operating Officer, and Mr. Michael Cook, Deputy Administrative Officer, 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 as follows: Mr. Bramer reviewed Items 1 through 6, 10 and 12; Mr. Nguyen reviewed Items 7 through 9, 11 and 13; and Mr. Cook reviewed Items 16 and 17.

The Committee noted the information, without formal action.

Chairperson Hsueh returned the agenda to Item 4.1.

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

Chairperson Hsueh continued Item 4.1 to the December 9, 2019 Capital Improvement Program Committee meeting.

Chairperson Hsueh moved the agenda to Item 4.5.

4.5. 2019 Capital Improvement Program Committee Work Plan.

Recommendation: Review the 2019 Capital Improvement Program Committee Work Plan and make revisions as necessary.

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

Chairperson Hsueh confirmed the addition of Item 4.1, Update on the Palo Alto Flood Basin Tide Gate Structure Improvements Project to the December 9, 2019 agenda.

6. CLERK'S REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS AND RECOMMENDATIONS:

The Committee's recommendations were not read into the record.

7. ADJOURN

Chairperson Hsueh adjourned the meeting at 11:20 a.m., to the next scheduled meeting at 10:00 a.m., on December 9, 2019, in the Valley Water Headquarters, Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

Natalie F. Dominguez, CMC
Assistant Deputy Clerk II

Approved:



Santa Clara Valley Water District

File No.: 19-1144

Agenda Date: 12/9/2019

Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Update on the Palo Alto Flood Basin Tide Gate Structure Improvements Project, Project No. 10394001, (City of Palo Alto, District 7). (Continued From November 18, 2019)

RECOMMENDATION:

Receive the Update on the Palo Alto Flood Basin Tide Gate Structure Improvements Project.

SUMMARY:

Background:

The Palo Alto Flood Basin (PAFB) tide gate structure was constructed in 1957 by the Santa Clara County Flood Control and Water Conservation District (Valley Water), Santa Clara County, and the City of Palo Alto. A map of the PAFB is included as Attachment 1.

In 2012, Valley Water completed emergency repairs to stop seepage flow beneath the structure. As part of that effort, staff prepared a post construction report which detailed the emergency work and recommended replacement of the tide gate structure.

In 2014, Valley Water retained the services of Mark Thomas & Co (MT) to perform structural inspections and prepare an assessment report for the tide gate structure. The report concluded that the structure was in generally good condition and recommended approximately \$180,000 in minor structural repairs.

In 2017, Valley Water retained a construction contractor to perform minor maintenance repairs; however, the work was complicated by cracks in the bottom slab and stopped during the dewatering process. A subsequent letter prepared by MT in October 2017 recommended the structure be replaced in the next couple of years.

In 2018, Valley Water management directed a new team to complete planning, design, and construction of a new tide gate structure.

On January 8, 2018, the project team met with the City of Palo Alto to coordinate ongoing efforts and next steps. The team discussed Project alignment with the San Francisquito Creek Joint Powers Authority's (SFCJPA) Strategy to Advance Flood protection, Ecosystems and Recreation Project (SAFER Bay), the City of Mountain View's South Bay Salt Pond Restoration Project (Mountain View Ponds), and the South San Francisco Bay Shoreline Project (Shoreline Project). The team also

discussed an inter-agency cost share agreement to fund the Project, PAFB data sharing, and Valley Water's emergency action plan for the PAFB, Adobe Creek, Barron Creek, and Matadero Creek.

On October 29, 2018, the project team met with the City of Palo Alto, the City of Mountain View, and the SFCJPA to ensure inter-agency coordination and advance the planning, design, and construction of the Project. During the meeting the team learned that the SAFER Bay project is expected to complete planning by 2026 and that the Mountain View Ponds project is expected to begin construction in 2020. The team agreed that given the risk of failure of the tide gate structure, the Project should proceed with planning, design, and construction.

In order to minimize the consequences of failure, Staff prepared an Emergency Action Plan (EAP) which was reviewed and accepted by the City of Palo Alto.

Currently, Valley Water maintenance staff performs routine inspections of the PAFB levees, tide gate structure, and passive tide gates, and the City of Palo Alto operates one motor driven sluice gate, and adjusts the water circulation as needed for vector control and salinity purposes.

Description

The structural engineering assessment completed in 2017 estimated that the tide gate structure could fail within approximately two to three years. If the structure fails, the tidal water could flood approximately 460 residences, 2 schools, 7 businesses, and Hwy 101 during two-year frequency peak high tide events. In addition to tidal flooding in low elevation areas, flooding from tributary creeks could worsen during high tide events as tidal water pushes upstream and reduces channel design capacity.

The Project evaluated three alternatives: No Action (Alternative A), New Structure Upstream of Existing Tide Gate Structure Location (Alternative B), and New Structure Next to Existing Tide Gate Structure Location (Alternative C).

Alternatives Considered

No Action - Alternative A

Alternative A is included to identify expected impacts to the tide gate structure and areas affected by failure at the tide gate structure if no project is constructed. The EAP will be implemented in case of eminent failure.

New Structure Upstream of Existing Tide Gate Structure Location - Alternative B

Alternative B includes five stages (construction seasons) to construct a new tide gate structure upstream from the existing structure as shown in Attachment 2.

Stage 1 (September 2021 - January 2022) would include installation of a sheet pile cofferdam to dewater the work area, excavation of levee soils, and construction of the pile foundation for the first

half of the new structure. The existing structure would function as is for flows.

Stage 2 (September 2022 - January 2023) would include complete construction of the first half of the new tide gate structure and tide gates, and construction of an outlet channel, while the existing tide gate structure functions as is for flows.

Stage 3 (September 2023 - January 2024) would include installation of a second sheet pile cofferdam to dewater the second work area, and construction of the second half of pile foundation. The first half of the new structure would bypass flows out of the flood basin in lieu of the existing structure.

Stage 4 (September 2024 - January 2025) would include removal of the existing structure, completion of construction of the second half of the new structure and tide gates, and completion of necessary soil improvements for the new levee. The first half of the new structure would continue to serve as a bypass for flows.

Stage 5 (September 2025 - January 2026) would include complete construction of the new levee and removal of all cofferdam dewatering systems.

New Structure Next to Existing Tide Gate Structure Location - Alternative C

Alternative C includes four stages (construction seasons) to construct a new tide gate structure adjacent and approximately 50 feet east of the existing structure as shown in Attachment 3.

Stage 1 (September 2021 - January 2022) would include installation of a sheet pile cofferdam to dewater the work area, excavation of levee soils, and construction of the pile foundation for the entire new structure.

Stage 2 (September 2022 - January 2023) would include completing construction of the new tide gate structure and tide gates, and construction of an outlet channel, while the existing tide gate structure functions as is for flows.

Stage 3 (September 2023 - January 2024) would include installation of a second sheet pile cofferdam to dewater the second work area, removal of existing tide gate structure, and completion of necessary soil improvements for the new levee.

Stage 4 (September 2024 - January 2025) would include complete construction of the new levee and remove all dewatering systems.

Recommended Alternative

The Staff Recommended Alternative was determined by comparing various criteria of Alternative B and Alternative C as listed in Attachment 4 and Attachment 5. Both feasible alternatives include identical new tide gate structures. However, Alternative C is recommended for the below reasons:

1. Alternative C construction duration would be 12 months less than Alternative B.

2. Alternative C would include less construction risk for schedule and cost overruns.
3. Alternative C would be easier to permit compared to Alternative B due to a reduced construction footprint, and shorter construction duration.
4. The total approximate project cost of Alternative B and Alternative C is \$36,998,000 and \$31,835,600 respectively. Alternative C provides \$5,162,400 in cost savings.

The project team concluded that both Alternative B and Alternative C provides critical flood protection. However, Alternative C has the least environmental impact, timeliest, and most cost effective. The project team recommends that Alternative C be advanced to the design and construction phases.

FINANCIAL IMPACT:

The estimated total project cost for implementing Alternative C is \$31,835,600. This project is funded from the Watersheds and Stream Stewardship Fund 12.

CEQA:

A Mitigated Negative Declaration is being prepared for this project.

ATTACHMENTS:

Attachment 1: Map
Attachment 2: Alternative B Construction Staging
Attachment 3: Alternative C Construction Staging
Attachment 4: Feasible Alternatives Matrix
Attachment 5: PowerPoint

UNCLASSIFIED MANAGER:

Ngoc Nguyen, 408-630-2632



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Alternative B Construction Staging

EXISTING TIDE
GATE STRUCTURE

ALTERNATIVE B - STAGE 1 AND STAGE 2

EXISTING STRUCTURE WILL REMAIN IN USE
DURING STAGE 1 AND STAGE 2 CONSTRUCTION

SAN
FRANCISCO
BAY

STAGE 1:
- INSTALL DEWATERING SYSTEM
- LEVEE EXCAVATION
- CONSTRUCT FIRST HALF OF PILE FOUNDATION

STAGE 2:
- CONSTRUCT FIRST HALF OF SUPERSTRUCTURE
- CONSTRUCT OUTLET CHANNEL
- RECONSTRUCT NEW LEVEE

PALO ALTO
FLOOD BASIN

ALTERNATIVE B - STAGE 3 AND STAGE 4

STAGE 4:

- REMOVE EXISTING STRUCTURE
- CONSTRUCT SECOND HALF OF SUPERSTRUCTURE
- CONSTRUCT GROUND IMPROVEMENTS

STAGE 3:

- REMOVE DEWATERING SYSTEM
- OPEN FIRST HALF OF NEW STRUCTURE AND OUTLET CHANNEL
- CONSTRUCT DEWATERING SYSTEM FOR NEW AREA
- CONSTRUCT SECOND HALF OF PILE FOUNDATION



SAN
FRANCISCO
BAY

PALO ALTO
FLOOD BASIN

ALTERNATIVE B - STAGE 5

STAGE 5:
- CONSTRUCT LEVEE
- REMOVE DEWATERING SYSTEM



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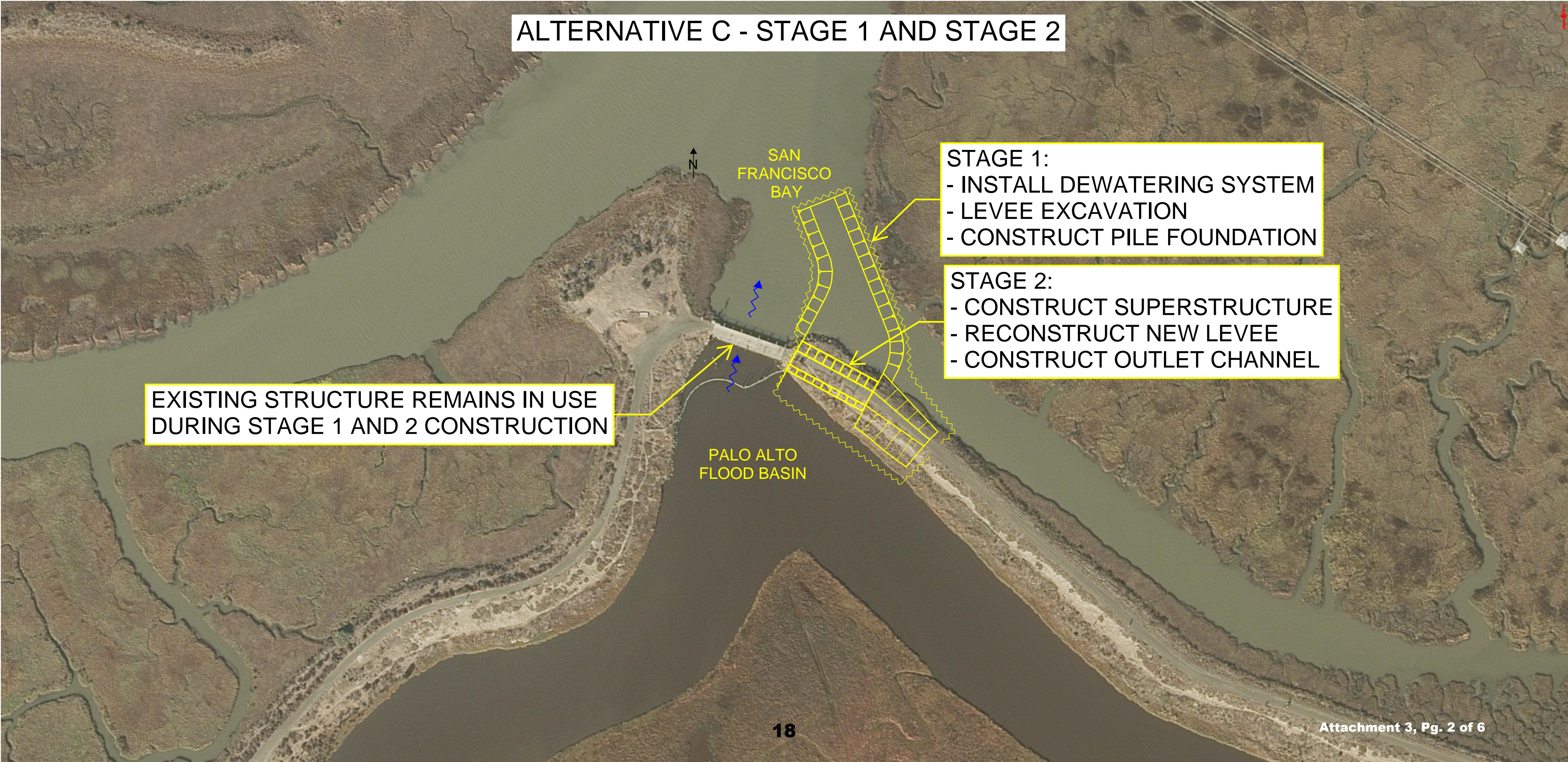
PALO ALTO
FLOOD BASIN

Attachment 3: Alternative C Construction Staging

EXISTING TIDE
GATE STRUCTURE

Page 1 of 1

ALTERNATIVE C - STAGE 1 AND STAGE 2



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BAY

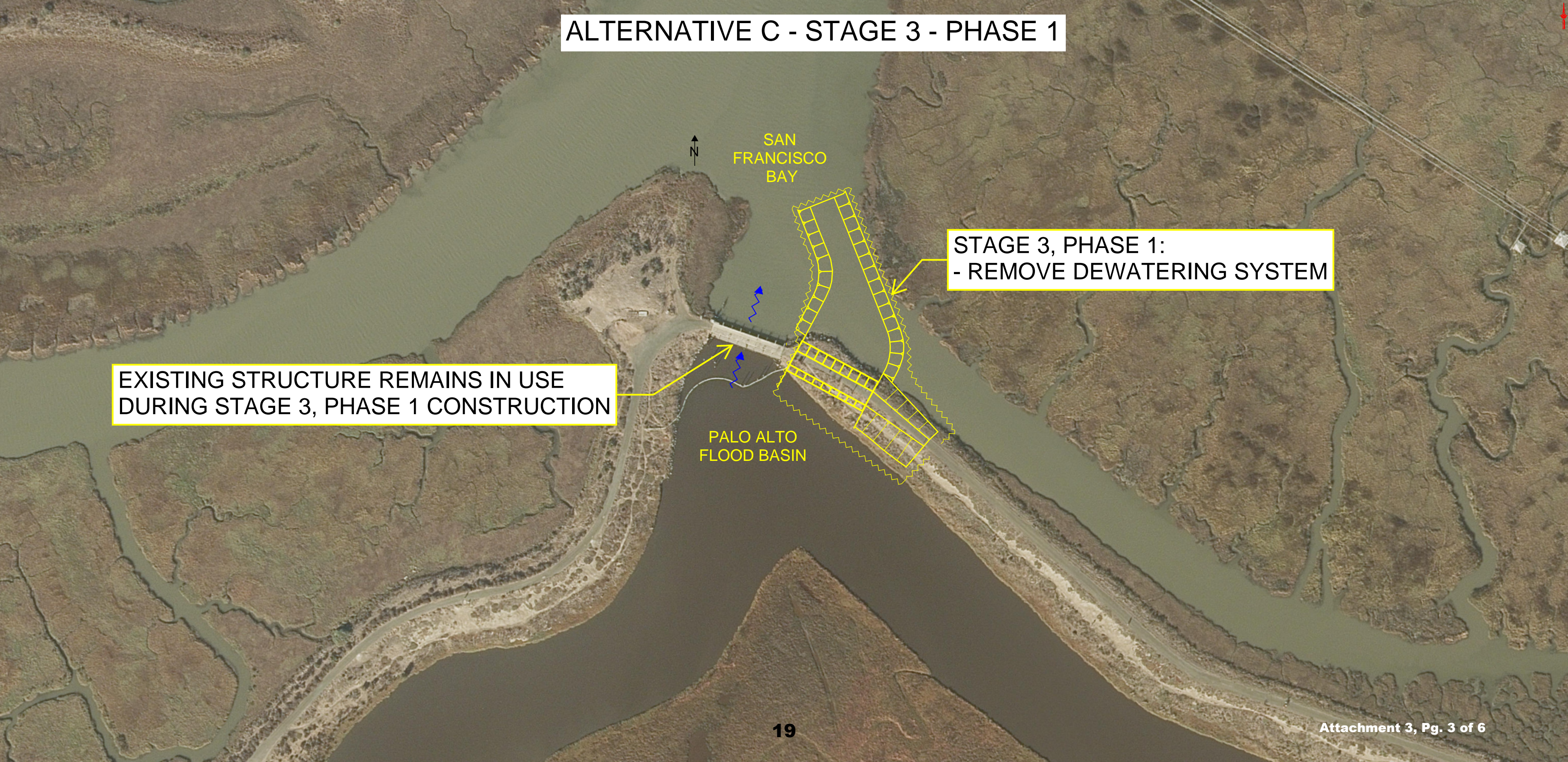
- STAGE 1:
- INSTALL DEWATERING SYSTEM
 - LEVEE EXCAVATION
 - CONSTRUCT PILE FOUNDATION

- STAGE 2:
- CONSTRUCT SUPERSTRUCTURE
 - RECONSTRUCT NEW LEVEE
 - CONSTRUCT OUTLET CHANNEL

EXISTING STRUCTURE REMAINS IN USE
DURING STAGE 1 AND 2 CONSTRUCTION

PALO ALTO
FLOOD BASIN

ALTERNATIVE C - STAGE 3 - PHASE 1



EXISTING STRUCTURE REMAINS IN USE
DURING STAGE 3, PHASE 1 CONSTRUCTION

STAGE 3, PHASE 1:
- REMOVE DEWATERING SYSTEM

PALO ALTO
FLOOD BASIN

SAN
FRANCISCO
BAY



ALTERNATIVE C - STAGE 3 - PHASE 2

- STAGE 3, PHASE 2:
- CONSTRUCT DEWATERING SYTEM
 - REMOVE EXISTING TIDE GATE STRUCTURE
 - CONSTRUCT GROUND IMPROVEMENTS

SAN FRANCISCO BAY

PALO ALTO FLOOD BASIN

NEW TIDE GATE STRUCTURE
IN FULL USE DURING STAGE
3, PHASE 2 CONSTRUCTION

ALTERNATIVE C - STAGE 4

STAGE 4:

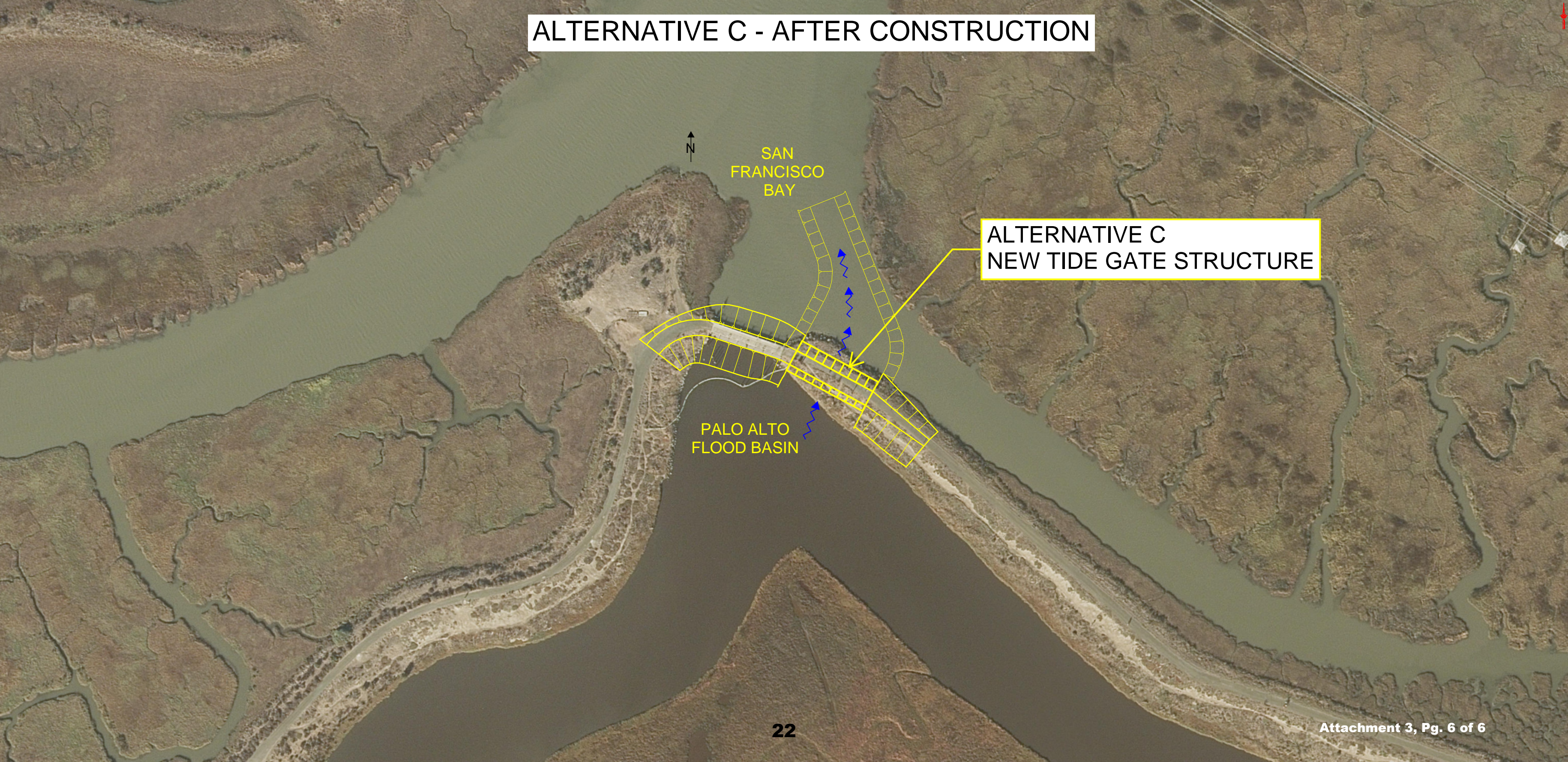
- COMPLETE GROUND IMPROVEMENTS
- CONSTRUCT NEW LEVEE
- REMOVE DEWATERING SYSTEM



SAN
FRANCISCO
BAY

PALO ALTO
FLOOD BASIN

ALTERNATIVE C - AFTER CONSTRUCTION



SAN FRANCISCO BAY

ALTERNATIVE C
NEW TIDE GATE STRUCTURE

PALO ALTO FLOOD BASIN

Feasible Alternatives Matrix

Alternative Element		Alternative A No Action	Alternative B New Structure Upstream from Existing Tide Gate Structure Location	Alternative C New Structure Next to Existing Tide Gate Structure Location
Construction Footprint Area		N/A	3.1 acres	2.6 acres
Native Planting Area		N/A	0.6 acres	0.4 acres
Number of Construction Season		N/A	5	4
Environmental Impact		* Potential loss of brackish marsh habitat. * 2-year flooding of 460 residences, 2 schools, 7 businesses, and temporary closure of Highway 101.	* Temporary impacts during the construction work windows for 5 seasons. * Current brackish marsh habitat will be maintained.	* Temporary impacts during the construction work windows for 4 seasons. * Current brackish marsh habitat will be maintained.
Impact to Trail Users		Trail is expected to be lost when tide gate structure fails.	The trail will be closed at the limits of the construction area for 53 months.	The trail will be closed at the limits of the construction area for 41 months.
Construction Uncertainties		N/A	Higher risk of construction complications due to unknown subsurface conditions, and staged construction of the tide gate structure.	Lower risk of construction complications.
Ease of Permitting		N/A	Permitting will be considerably difficult due to longer construction time and larger construction footprint area.	Permitting will be easier compared to Alternative B due to shorter construction time and reduced construction footprint area.
Mitigates Against SLR		No	Partial mitigation	Partial mitigation
O&M Cost (OP)	Annual	\$ -	\$ 8,400	\$ 8,400
	Over 50 Years	\$ -	\$ 1,400,000	\$ 1,400,000
Construction Cost		\$ -	\$ 31,147,200	\$ 26,429,200
Planning & Design Cost		\$ -	\$ 3,264,000	\$ 2,947,000
Permitting Cost		\$ -	\$ 1,186,800	\$ 1,059,400
Total 50-Year Lifetime Cost		N/A	\$ 36,998,000	\$ 31,835,600

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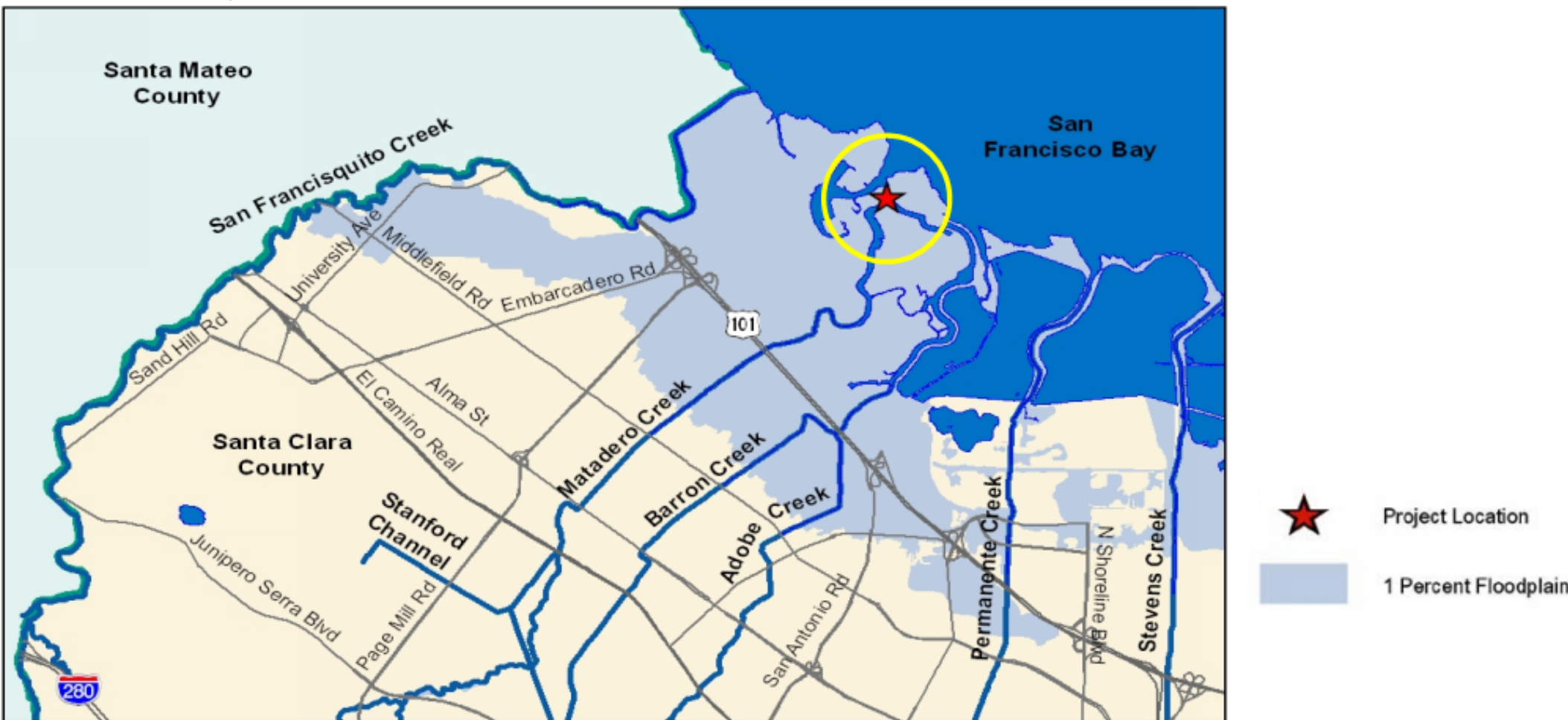
Palo Alto Flood Basin Tide Gate Structure Improvements

Presented by: Roger Narsim, Unit Manager



Project Location (District 7)

2





Stakeholders

- San Francisquito Creek Joint Powers Authority (SFCJPA)
- City of Palo Alto (City of PA)
- City of Mountain View (City of MW)
- U.S. Army Corps of Engineers (USACE)
- U.S. Fish and Wildlife Service (USFWS)
- National Marine Fisheries Service (NMFS/NOAA)
- California Department of Fish and Wildlife (CDFW)
- San Francisco Bay Regional Water Quality Control Board
- Santa Clara County Vector Control District (SCCVCD)
- San Francisco Bay Trail (Bay Trail)
- California State Coastal Conservancy (SCC)
- San Francisco Bay Conservation and Development Commission (BCDC)



Meeting History w/ Stakeholders

5

- January 2018 – Background, Problem definition, emergency action plan, and cost share request with City of PA
- October 2018 – Preliminary design criteria meeting including project coordination with Shoreline Levee Project with SFCJPA, City of PA, City of MW
- April 2019 – Conceptual design meeting with City of PA
- August 2019 – Site meeting with SFCJPA, City of PA, Bay Trail, and permitting agencies

Meeting Objective

- Provide project background
- Provide problem definition
- Provide alternatives formulation and evaluation
- Discuss next steps
 - CIP Committee, November 18th
 - Full board meeting, January 14th
 - Public meeting presenting Draft Planning Study Report, February 2020

Background

- Tide gates constructed in 1957 by Santa Clara County Flood Control & Water Conservation District, Santa Clara County, and the City of Palo Alto
- Palo Alto Flood Basin (PAFB) controls starting water elevations for Adobe, Barron, and Matadero creeks
- Historically the City of Palo Alto owned gates in the basin before the current structure was built



Ownership

8

- The City of Palo Alto owns the land for the Palo Alto Flood Basin.
- Valley Water has easements granted in 1967 by City for surrounding creeks and levees, and tide gate structure.
- Valley Water/County did not own property nor have easement on lands when current tide gate structure was constructed.



Timeline: Previous Studies & Repairs 9

- PAFB Tide Gate Structure leaking reported (2011)
- PAFB Tide Gate Structure Monitoring (2011)
- PAFB Tide Gate Structure Emergency Repairs (2012)
 - Post-emergency repair report to USACE
 - New project initiated to replace structure within 5 years
- PAFB Tide Gate Structure Inspection Report (April 2014)
- Problem Definition/Refined Objectives Report (June 2016)
- PAFB Tide Gate Structure Maintenance Repairs, Incomplete (2017)
- Structural Assessment – replace within 2 years (2017)
- Project transferred to Design and Construction Unit 336 (2018)

Timeline: Work-to-date

- Geotechnical investigation & report (2018)
- Bathymetric survey (2018-2019)
- Project coordination w/ City of PA regarding electrical controls (June 2019)
- Hydraulic analysis of gate design (July 2019)
- Sea Level Rise (SLR) optimization, target 2 feet (July 2019)
- Project coordination/collaboration with stakeholders (2018-2019)
- Problem Definition/Refined Objectives Report (August 2019)
- Draft Planning Study Report (2019)

Tide Gate Structure Condition

11



Preliminary Design Criteria

- Provide 100-year flood risk reduction for Matadero Creek, Adobe Creek, and Barron Creek.
- Increased capacity for future Sea Level Rise (SLR)
- Located along future Shoreline Levee Project alignment
- Top of structure is 4 feet above the existing levee and consistent with City of Mountain View Shoreline Levee Project (Coast Casey)
- Meet current seismic design standards
- Increase safety and efficiency for future O&M.
- Increase efficiency with 8 side-hinged gates vs 15 top-hinge gates

Side gate versus Top gate efficiency 13

Video to be played during meeting.

Alternatives Development

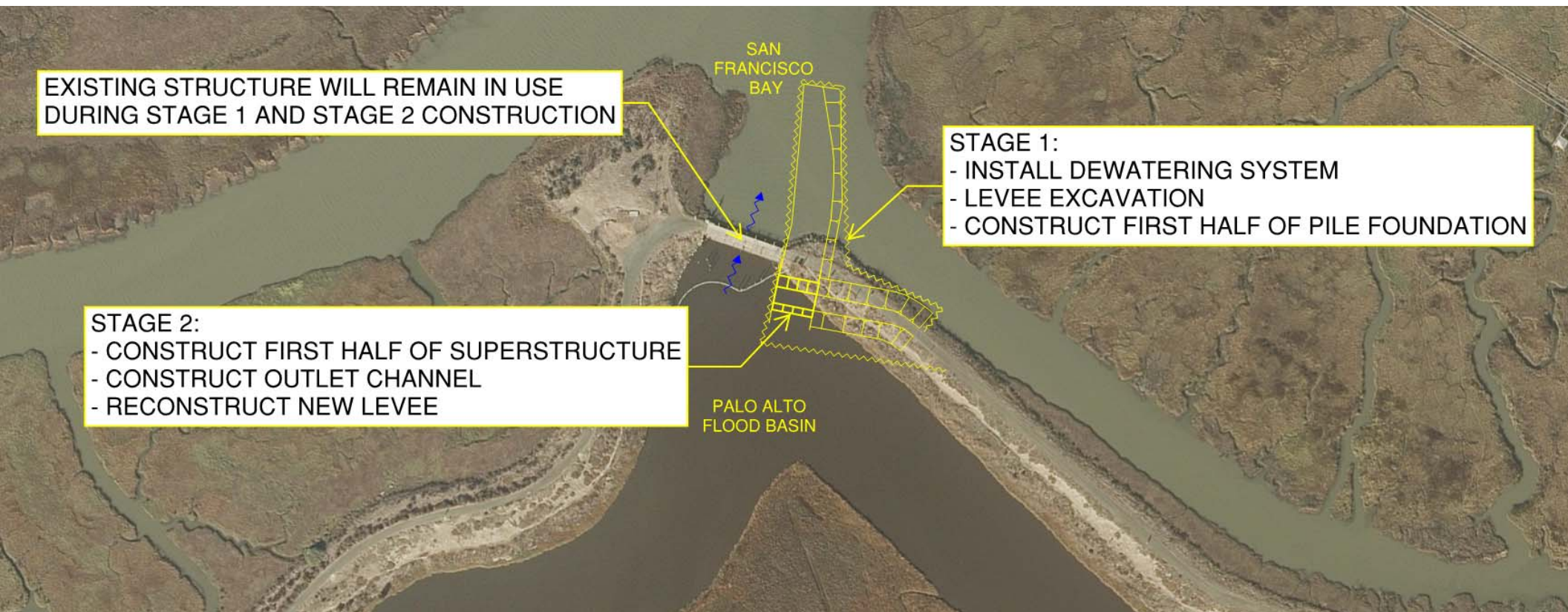
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- Alternative A: “No Action”
- Alternative B: Construct in basin upstream from existing structure
- Alternative C: Construct in levee next to existing structure

Alternative A: “No Action”

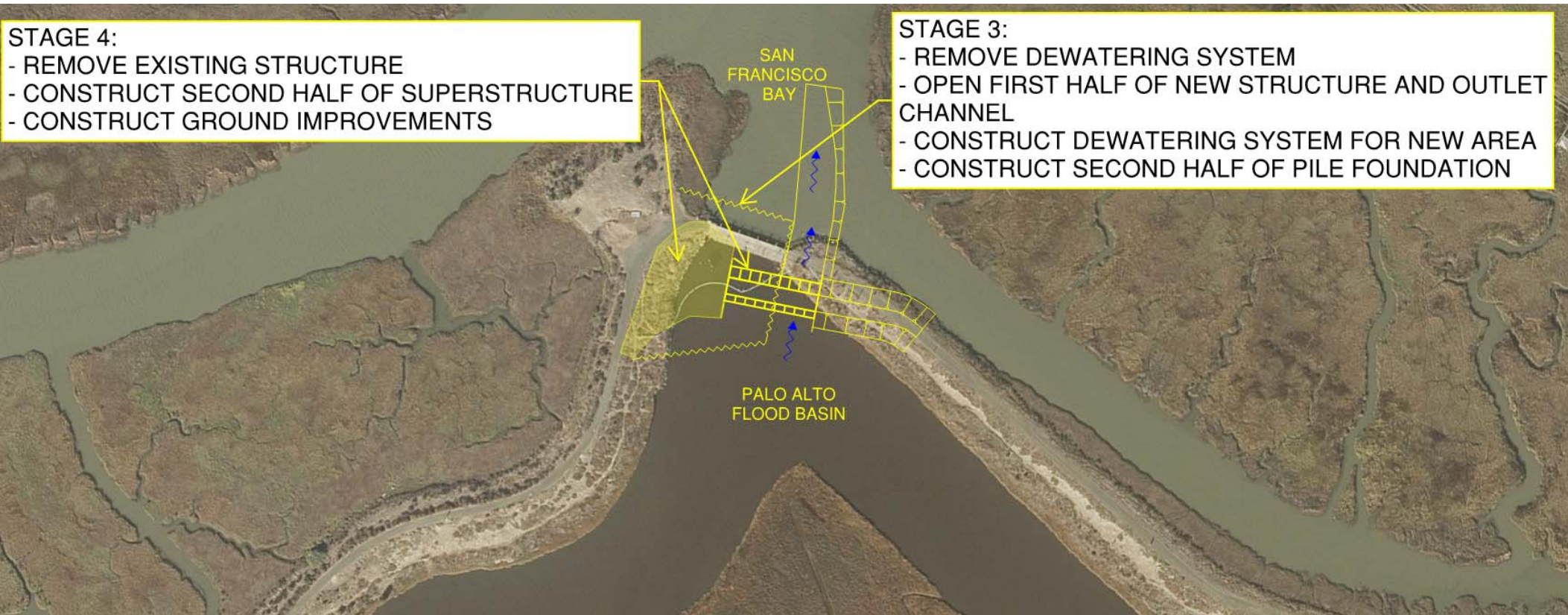
- 62-year old existing structure has structural and hydraulic deficiencies and maintenance is problematic and costly.
- Seismic vulnerabilities (timber piles and liquefiable soils)
- Leaking tide gates
- Holes in the bottom structure slab will worsen
- Spalled concrete and corroded steel reinforcement will worsen
- Does not account for increasing Sea Level Rise (SLR)
- A failed tide gate structure could potentially flood 460 residences, 2 schools, 7 businesses, and Highway 101.

Alternative B: Stage 1 and Stage 2 16



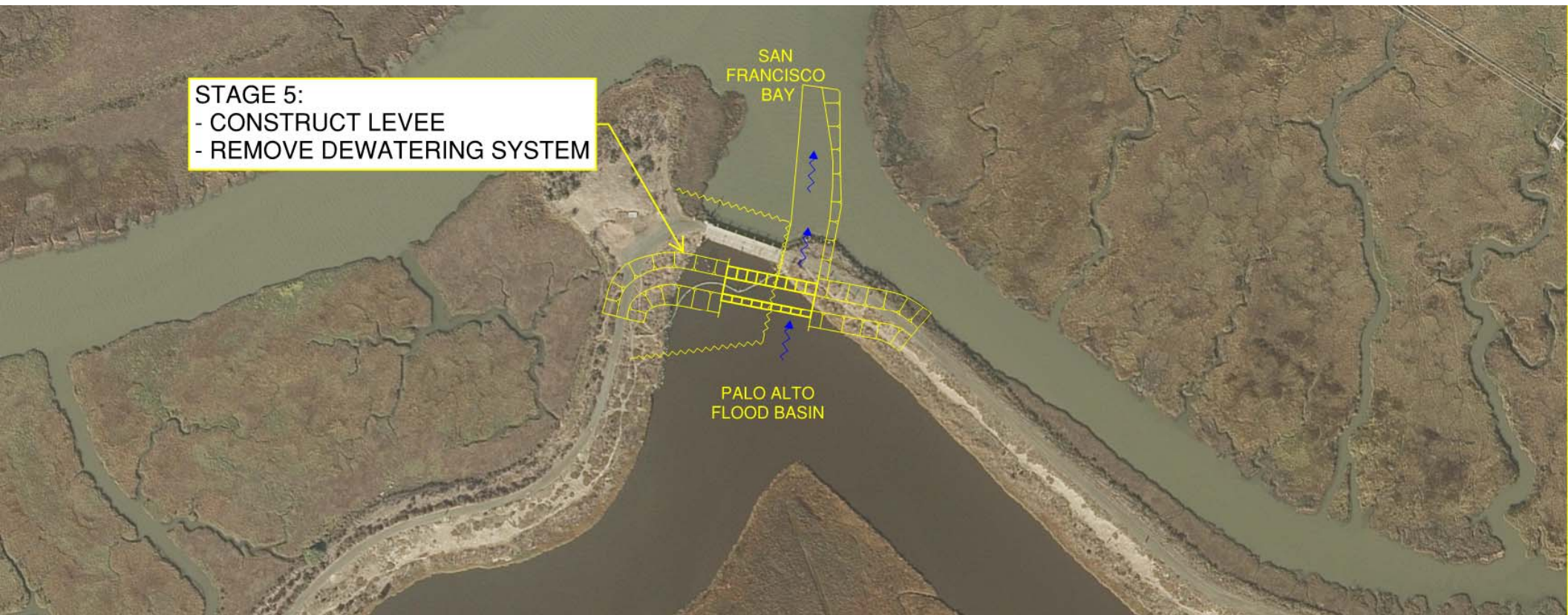
Alternative B: Stage 3 and Stage 4

17



Alternative B: Stage 5

18



Alternative B: Pros and Cons

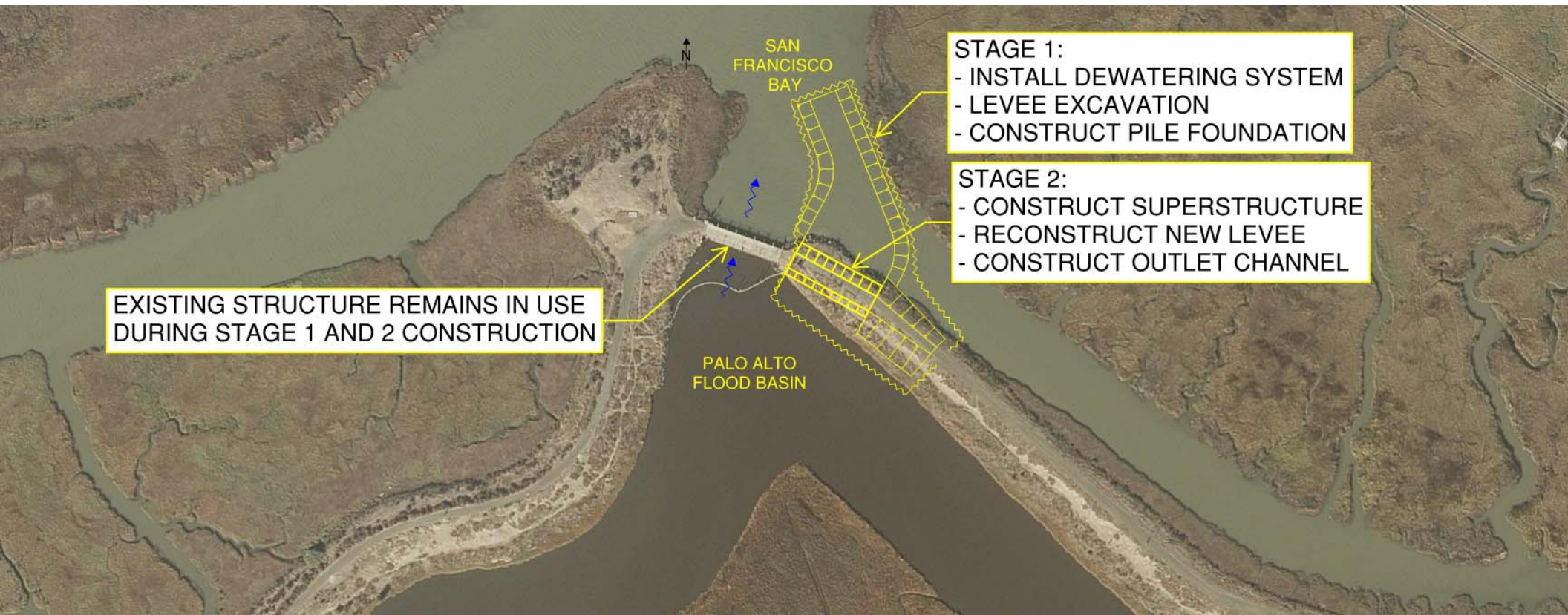
Pros:

- Maintains existing structure flow direction
- Minimizes excavation for outlet channel

Cons:

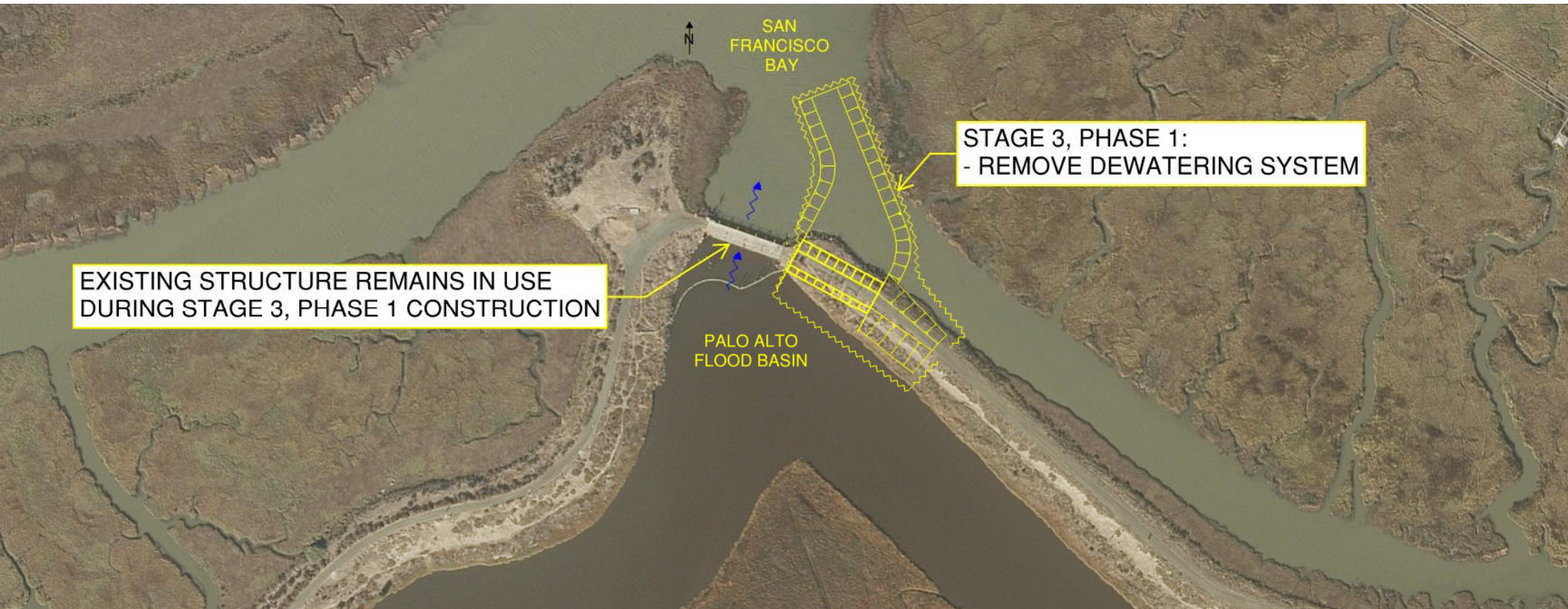
- Longer Construction: 5 years instead of 4 years (Alt-C)
 - Assumed greater environmental impacts compared to Alt-C
 - Longer closure of trail: 53 months instead of 41 months (Alt-C)
- Staged construction and increased risk of construction complications
- Higher cost

Alternative C: Stage 1 and Stage 2 20



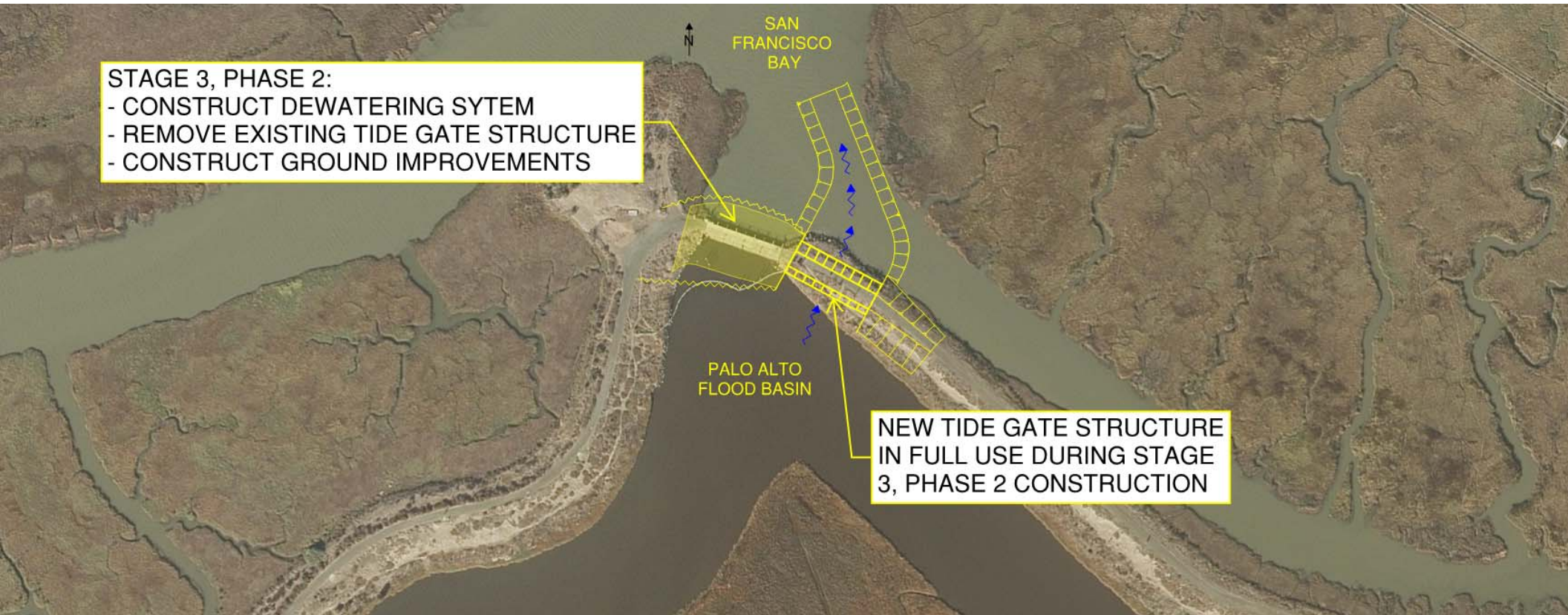
Alternative C: Stage 3, Phase 1

21



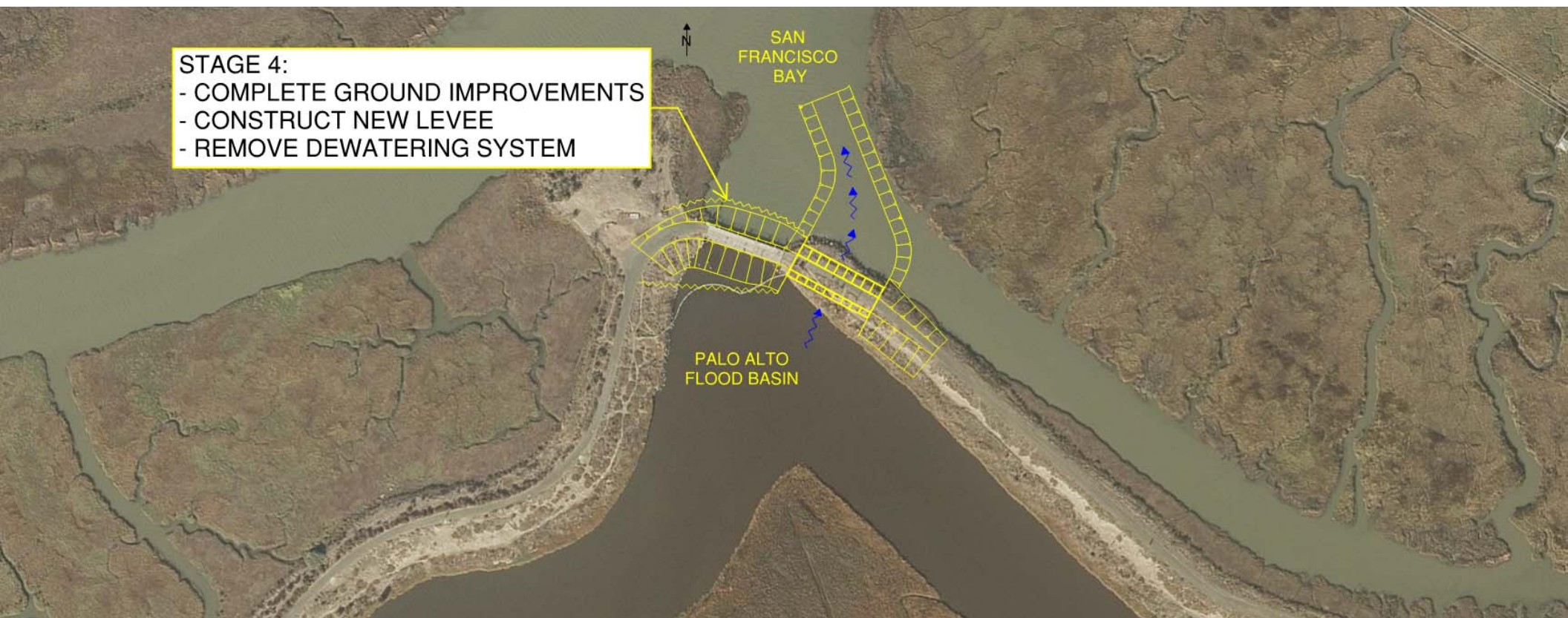
Alternative C: Stage 3, Phase 2

22



Alternative C: Stage 4

23



Alternative C: Pros and Cons

Pros:

- Faster Construction: 4 Seasons instead of 5 (Alt-B)
 - Assumed less environmental impacts compared to Alt-B
 - Shorter trail closure duration 41 months instead of 53 months (Alt-B)
- More straightforward construction
- Lower cost construction compared to Alt-B

Cons:

- Additional excavation in the bay to create outlet channel

Alternatives Construction Cost

25

Alternative B: Approximately \$37 Million (5 Seasons)

Alternative C: Approximately \$31.8 Million (4 Seasons)

Proposed Trail Closure and Detour

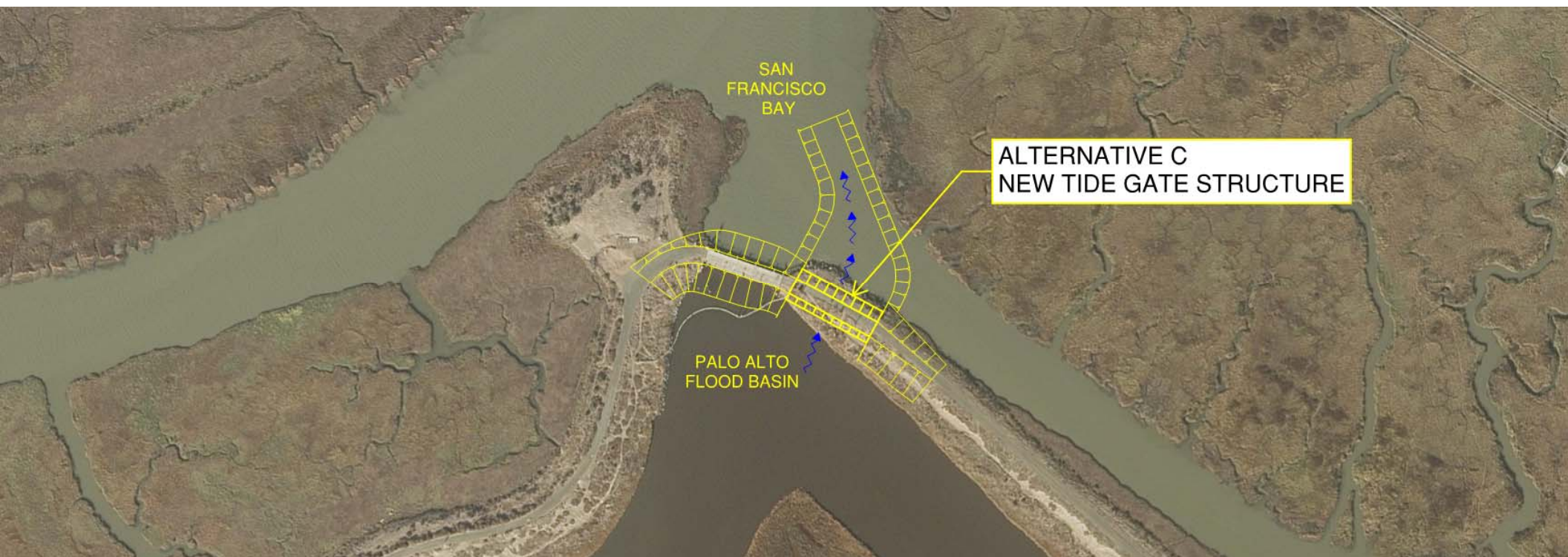
- Alternative B:
Trail closed for 53 months.
- Alternative C:
Trail closed for 41 months.



Recommended Alternative

Alternative C: Construct next to existing tide gates

27



Public Outreach

- Project website (November 2019)
- Planning study level public meeting (February 2020)
- Pre-construction public meeting notice (July 2021)
- Pre-construction public meeting (August 2021)

Project Schedule

- Problem Definition Report: August 2019
- Draft Planning Study Report: November 2019
- 30% Design: Sept. 2019 – March 2020
- 60% Design: March 2020 – September 2020
- 90% Design: September 2020 – Dec. 2020
- 100% Design: Dec. 2020 – March 2021
- Environmental (CEQA/Permitting): Jan. 2019 – March 2021
- Advertise/Award Contract: June 2021 – August 2021
- Construction Schedule (Alt-C): Sept. 2021 – Jan. 2025

QUESTIONS





Santa Clara Valley Water District

File No.: 19-1113

Agenda Date: 12/9/2019

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Capital Project Monitoring - Design.

RECOMMENDATION:

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

SUMMARY:

The 2019 Workplan for the Board Capital Improvement Program Committee (Committee) includes monitoring of capital projects during all phases of development. Staff will present a list of active projects at each Committee meeting and provide detailed information on those where potential and/or significant issues have been identified. The projects presented for discussion will be organized by phases: planning/feasibility; design; and construction. Staff will present projects to the Committee for review one phase at a time. Projects currently in the design phase are being presented at this Committee meeting. Other attachments may be included to provide more detail on other items associated with these projects.

Attachment 1 is a list of projects in the design phase. A verbal report will be provided at the meeting with more detailed information about recent developments on the projects listed in Attachment 1.

ATTACHMENTS:

Attachment 1: Capital Project Monitoring - Design

UNCLASSIFIED MANAGER:

Tim Bramer, 408-630-3794

Christopher Hakes, 408-630-3796

Ngoc Nguyen, 408-630-2632

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Capital Project Monitoring Report - December 2019

Design Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues	Planned CM Serivces		
				Internal	External	Combination
Water Utility						
1	91864005	Anderson Dam Seismic Retrofit	90% design due to be completed by June 2020.			X
2	91874004	Calero Dam Seismic Retrofit - Design & Construct	90% design due to be completed by September 2020.			X
3	91894002	Guadalupe Dam Seismic Retrofit - Design & Construct	90% design due to be completed by September 2020.			X
4	95084002	10-Yr Pipeline Inspection & Rehabilitation Projects: Central Pipeline Santa Clara Conduit Parallel East Pipeline	Central Pipeline: 60% design completed; due to other system maintenance shutdowns, work will be performed in winter 2021. Santa Clara Conduit: 30% design completed in November 2019; Parallel East Pipeline: 60% design complete; construction anticipated to begin in fall of 2020.	X		
5	26764001	IRP2 Additional Line Valves	30% design completed for 3 of 4 additional line valves.	X		
6	93294051	RWTP FRP Residuals Management	Some system improvement elements and RWTP Landscaping will be performed as small capital projects, other elements will be incorporated into the RWTP Residuals Remediation design.	X		
7	93294058	RWTP Residuals Remediation	30% design expected by December 2019.	X		
8	91094009	SoCo Recycled Water Pipeline- Short-Term Implementation Phase 1B	On hold until USBR completes NEPA updates. \$5.2 million in grant funding.	X		
9		Water Utility Small Capital Projects	Pacheco Pumping Plant Fire Alarm and Suppression System Project to be advertised for construction in January 2020; SVAWPC Storage Building design phase is 90% complete.	X		
Flood Protection						
10	10394001	Palo Alto Flood Basin Tide Gate Structure Improvements	60% design by September 2020; Draft MND for public review in January 2020.	X		
11	26284002	San Francisquito Creek - Upstream of HW 101	Pope Chaucer design at 60%; Channel design at 90%; Final EIR was certified in October 2019.	X		
12	26074002	Sunnyvale East and West Channels	Permit negotiations are underway; MoA with Google underway.			
13	26154003	Guadalupe Rv-Upper, SPRR to Blossom Hill Road (R7-12)	Completed 65% design for Reach 7. Project is on hold. USACE is evaluating total project cost and benefit-cost-ratio. District is discussing with USACE options to make the project more competitive for federal funding.	N/A	USACE construction	
14	40334005	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	90% design completed; Final design in January 2020; Received permits from CDFW and USACE and final draft permit from RWQCB; Planning to advertise construction contract in February 2020.	X		
15	26174051 26174052	Llagas Creek—Upper	Phase II: 100% design expected to be completed by January 2020.			X
16	26444001	San Francisco Bay Shoreline - EIA 11 Design & Part Construction	Reach 1 levee design completed; District obtained R/W for Reach I construction; Reaches 2 and 3: 90% design completed in July 2019; Final design in October 2019; Planning to advertise and award Reach I construction in January 2020. Valley Water was awarded a \$57 million grant over five year period.	N/A	USACE construction	

Capital Project Monitoring Report - December 2019

Design Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues	Planned CM Serivces		
				Internal	External	Combination
17	62084001	Watershed Asset Rehabilitation Program (WARP)	Design ongoing for the following projects: Erosion repair for Calabazas Creek and Lower Penitencia Creek and concrete repair for Permanente Creek, Hale Creek, and Piedmont Creek; construction for these projects is anticipated to start in 2021.	X		
18	40174005	Berryessa Creek Lower Penitencia to Calevaras Blvd. (Lower Calera Creek)	Final design is expected in February 2020; EIR addendum is being finalized; Planning to advertise construction contract in March 2020.	X		
Water Resources Stewardship						
19	26164001	Hale Creek Enhancement Pilot Study	60% design completed; 90% Design in July; Final design in February 2020.	X		
20	26044002	SCW Fish Passage Improvements at Bolsa Rd	Planning to advertise construction contract in March 2020.	X		
21	26044001	Almaden Lake Improvements	Public meeting on Draft EIR is scheduled for January 2020.	X		
Buildings & IT						
No projects to report						



Santa Clara Valley Water District

File No.: 19-1114

Agenda Date: 12/9/2019

Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Draft Preliminary Capital Improvement Program Fiscal Years 2021-2025.

RECOMMENDATION:

Review and discuss the Draft Preliminary Fiscal Years 2021-2025 Capital Improvement Program and provide recommendations to staff as needed.

SUMMARY:

The purpose of this agenda item is for the Committee to review and discuss the Draft Preliminary Capital Improvement Program (CIP) for Fiscal Years (FY) 2021-2025 (Attachment 1). This version of the document includes the status of existing projects and a list of the newly proposed and, as yet, unfunded projects. Staff is developing project proposals for some of these new projects and will run the financial models and evaluate availability of staff resources to determine the financial capacity and optimal timing to initiate the newly proposed projects.

The five-year CIP is updated each year to reflect major changes to Valley Water's capital projects in the planning, design and construction phases.

Highlighted below and included in the FY 2021-2025 Preliminary CIP are the significant updates from the prior FY.

Fund 11, General Fund

60204016 Facilities Small Capital Projects: Increase of \$1M per FY (from \$2M to \$3M) is required for remodeling of buildings and grounds and replacement of structural equipment (e.g. roofs, heating and air conditioning systems).

Fund 12, Watershed Stream Stewardship Fund

10394001 Palo Alto Flood Basin Tide Gate Structure Improvement: Increase of \$20M in total project cost (TPC), primarily due to increased construction phase costs estimates.

30154019 Guadalupe River Tasman Dr. - I-880: Increase of \$95M to TPC, to reflect all future planning, design, construction costs (this project originally only included \$1M for the planning effort).

Fund 26, Safe, Clean Water and Natural Flood Protection Fund

26154003 Guadalupe River Upper, SPRR to Blossom Hill Rd (R7-12): Increase of \$3M in TPC to correctly reflect future year funding requirements in the project plan.

26174002 Upper Llagas Creek Flood Protection Project: Increase of \$60M in TPC to correctly reflect future year funding requirements in the project plan.

26174041 Upper Berryessa Creek, Calaveras Blvd. to I-880 (USACE Coordination): Increase of \$6.6M in TPC to correctly reflect future year funding requirements in the project plan.

26204001 Los Gatos Creek Restoration and Flood Protection Project: This project is being removed from the CIP due to project re-scoping by property owner/project partner.

Fund 61, Water Utility Enterprise Fund

91C40375 Land Rights - South County Recycled Water Pipeline: This is a previously validated, unfunded project that is being added to the funded list in the FY 2021-2025 Preliminary CIP. The estimated TPC is \$7.6M.

91084020 Calero and Guadalupe Dams Seismic Retrofits - Planning: Increase of \$3M in TPC due to unforeseen issues related to the draft EIR; additionally, the overall completion date has been extended by three years.

91214010 Small Capital Improvements, San Felipe Reach 1: Decrease of \$15M in TPC due to a revised strategy of future pump replacement in lieu of rebuilding two pumps each year, as was the previous approach. The project team will submit capital projects for validation in future years when the pumps are due for replacement.

92C40415 Almaden Valley Pipeline Replacement: This is a newly validated project and being added to the funded list in the FY 2021-2025 Preliminary CIP. The estimated TPC is \$90M. The pipeline is in poor condition with a high risk of failure and will be slip-lined with new steel pipe.

92374005 SCADA Remote Architecture & Communications Upgrade: This project is being removed from the CIP; the planning effort will be budgeted into a Water Utility Operations project for FY21.

93294057 RWTP Reliability Improvement Project: Increase of \$16M in TPC due to scheduling issues; construction for the overall project has been extended by 10 months.

Fund 71, Equipment Fund

70004001 New Vehicles/Equipment: Increase of \$5.8M in TPC due to revised long-term forecast to reflect organizational staffing increases.

70004002 Replacement Vehicle & Equipment Acquisition: Increase of \$4.3M in TPC due to revised long-term forecast.

To receive the Board's feedback and direction, staff will present the Preliminary CIP and any CIP Committee recommendations to the Board during a workshop tentatively scheduled for December 17, 2019. Based on the outcome of the workshop, staff will present an updated Preliminary CIP to the Board for approval on January 14, 2020.

ATTACHMENTS:

Attachment 1: Draft Preliminary FY 2021-2025 CIP

Attachment 2: Draft Preliminary CIP Financial Models

UNCLASSIFIED MANAGER:

Christopher Hakes, 408-630-3796

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PRELIMINARY FY21 - 25 CIP

Water Supply Projects

Revenue Sources: Groundwater Charges

PRELIMINARY CIP

FY 2021 5-Year CIP Data

Project Category	Number	Project Name	A	B		A + B	Change from FY20	Project Phase (FY21)	Funded By
			Actual/ Appropriated thru FY20*	Remaining Cost to Completion	FY21 Plnd Expnd	FY21-35 Project Value			

Values last updated: 11/26/19 (All values are in thousands)

FY 2021 - 2025 CIP

Water Supply - Storage

B	91854001	Almaden Dam Improvements	14,758	52,689	168	67,447	(2,639)	Des	W-2
A,B	91864005	Anderson Dam Seismic Retrofit (C1)	54,240	494,300	3,740	548,540	(14,743)	Des	W-2/W-5/SCW
	91084020s	Calero and Guadalupe Dams Seismic Retrofits	33,122	204,670	3,573	237,792	(2,635)	Plng/Des	W-2
A,B	91084020	Calero and Guadalupe Dams Seismic Retrofits - Planning	10,427	2,334	1,565	12,761	3,413	Plng	W-2
A,B	91874004	Calero Dam Seismic Retrofit - Design & Constuct	12,711	133,151	1,192	145,862	(3,963)	Design	W-2
A,B	91894002	Guadalupe Dam Seismic Retrofit - Design & Construct	9,984	69,185	816	79,169	(2,085)	Design	W-2
B	91234002	Coyote Pumping Plant ASD Replacement	1,938	13,554	2,755	15,492	(829)	Plng	W-2
E	91234011	Coyote Warehouse	9,339	293	152	9,632	(113)	Const	W-2/W-5
A,B	91084019	Dam Seismic Stability Evaluation	22,236	8,215	427	30,451	(270)	Plng	W-2/W-5
E,F	91954002	Pacheco Reservoir Expansion Project	59,021	1,286,329	42,550	1,345,350	99	Plng/Des	W-2/W-5
B	91214010s	Small Capital Improvements, San Felipe Reach 1-3	7,433	35,883	1,977	43,316	(15,731)	Continuing	W-2/W-5
Subtotal:			202,087	2,095,933	55,342	2,298,020	(36,861)		

Water Supply - Transmission

B	95084002	10-Year Pipeline Rehabilitation (FY18-FY27)	63,918	47,642	14,911	111,560	(3,168)	Plng/Des/Const	W-2/W-5
B	92C40415	Almaden Valley Pipeline Replacement Project	0	89,677	668	89,677	89,677	Planning	W-2/W-5
C	92C40357	FAHCE Implementation	0	145,108	4,739	145,108	14,690	Plng	W-2
C	26764001	IRP2 Additional Line Valves (A3)	1,431	9,722	2,538	11,153	(362)	Design	SCW
B,C	26564001	Main & Madrone Pipelines Restoration (A1)	17,570	0	0	17,570	0	Const	SCW
E	92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	3,230	1,620	1,312	4,850	(62)	Design/Const	W-2/W-5
B	92764009	Small Capital Improvements, Raw Water Transmission	1,215	7,384	82	8,599	4,009	Continuing	W-2/W-5
B	94764006	Small Capital Improvements, Treated Water Transmission	178	498	0	676	(217)	Continuing	W-2
B	94084007	Treated Water Isolation Valves	1,272	6,864	83	8,136	(205)	Design	W-2
B	92264001	Vasona Pump Station Upgrade	1,906	21,861	1,419	23,767	(660)	Plng	W-2
F	94084008	Westside Retailer Interties	78	1,922	67	2,000	(61)	Plng	W-2
Subtotal:			90,798	332,298	25,819	423,096	96,309		

PRELIMINARY FY21 - 25 CIP

Water Supply Projects

Revenue Sources: Groundwater Charges

PRELIMINARY CIP

FY 2021 5-Year CIP Data

FY 2021 5-Year CIP Data			A	B	A + B				
Project Category	Number	Project Name	Actual/	Remaining	FY21 Plnd	FY21-35	Change	Project Phase	Funded
			Appropriated	Cost to		Project			
			thru FY20*	Completion	Expnd	Value			
Values last updated: 11/26/19 (All values are in thousands)									
Water Supply - Treatment									
B	93234044	PWTP Residuals Management	0	9,743	683	9,743	(307)	FY21	W-2
B	93294051s	RWTP Residuals Remediation	38,901	19,059	14,032	57,960	(1,954)	Const	W-2
B	93294057	RWTP Reliability Improvement	207,172	120,725	40,835	327,897	19,184	Const	W-2
B	93294056	RWTP Treated Water Valves Upgrade	8,476	153	142	8,629	6	Const/Closeout	W-2
B	93764004	Small Capital Improvements, Water Treatment	11,353	44,478	3,444	55,831	(3,201)	Continuing	W-2
B	93284013	STWTP Filter Media Replacement Project	203	10181	1134	10384	(319)	Planning	W-2
B	93084004	Water Treatment Plant Electrical Improvement Project	203	11699	1288	11902	(367)	Planning	W-2
Subtotal:			266,308	216,038	61,558	482,346	13,042		
Water Supply - Recycled Water									
E,F	91304001s	Expedited Purified Water Program (EPWP)	23,058	187,307	3,610	210,365	(9,904)	Planning	W-2
E,F	91C40375	Land Rights - South County Recycled Water PL	0	7,611	0	7,611	7,611	Planning	W-2
E,F	91094007s	South County Recycled Water Pipeline	28,375	28,459	17,220	56,834	(862)	Des/Const	W-5
Subtotal:			51,433	223,377	20,830	274,810	(3,155)		
Water Supply Total:			610,626	2,867,646	163,549	3,478,272	69,335		

PRELIMINARY FY21 - 25 CIP

Water Supply Projects

Revenue Sources: Groundwater Charges

PRELIMINARY CIP

FY 2021 5-Year CIP Data

FY 2021 5-Year CIP Data			A	B	A + B				
Project Category	Number	Project Name	Actual/	Remaining		FY21-35	Change from FY20	Project Phase (FY21)	Funded By
			Appropriated	Cost to	FY21 Plnd	Project			
			thru FY20*	Completion	Expnd	Value			
Values last updated: 11/26/19 (All values are in thousands)									
Validated - Future Unfunded Projects									
C	92404003	Alamitos Diversion Dam Improvements	837	2,345	0	3,182	0	**	W-2
C	92484003	Coyote Diversion Dam Improvements	322	2,138	0	2,460	0	**	W-2
A,B	91C40320	Dam Seismic Retrofit at 2 Dams (Chesbro & Uvas)	0	89,500	0	89,500	0		W-5
A,B	93C40417	RWTP Ammonia Storage & Metering Facility Upgrade	0	5,851	0	5,851	0		W-5
E,F	91C40389	Long-Term Purified Water Program Elements	0	207,125	0	207,125	0	FY23	W-2
E,F	91C40395	So. County Recycled Water New Storage Tank	0	7,000	0	7,000	0		W-5
Validated - Unfunded Total:			1,159	590,424	0	502,174	0		

Legend:

- Black - Black Text: Continuing projects or projects carried forward from the FY20 CIP
- Gray - Gray Text: Individual projects considered part of a group or family of projects
- Orange - Orange Text: Projects to be completed or cancelled in FY 2020
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 21 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year
- Planning completed

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of WS Projects

10
16
4
0
3
1

34

Funded by Legend:

- W-2 - North Zone; revenue is allocated based on % of benefit to the zone
- W-5 - South Zone; revenue is allocated based on % of benefit to the zone
- CSC - funded by revenue from Clean Safe Creeks program
- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

PRELIMINARY FY21 - 25 CIP

Flood Protection Projects

Revenue Sources: COP Proceeds, CSC Special Tax, Property Tax, Subventions

PRELIMINARY CIP

FY 2021 5-Year CIP Data

Project Category	Number	Project Name	A	B	A + B		Change from FY20	Project Phase (FY21)	Funded By
			Actual/ Appropriated thru FY20*	Remaining Cost to Completion	FY21 Plnd Expnd	FY21-35 Project Value			

Values last updated: 11/26/19 (All values are in thousands)

FY 2021 - 2025 CIP

Lower Peninsula Watershed

B	10394001	Palo Alto Flood Basin Tide Gate Structure Improvements	2,880	29,885	1,594	32,765	20,535	Plan/Des	PT
C	10244001s	Permanente Creek, SF Bay to Foothill Expressway	106,407	250	228	106,657	5,078	Const/Closeout	PT/CSC
C	10284007s	San Francisquito Creek, SF Bay thru Searsville Dam (E5)	61,968	26,219	5,098	88,187	(811)	Des/Const	PT/CSC/SCW
Subtotal:			171,255	56,354	6,920	227,609	24,802		

West Valley Watershed

C	26074002	Sunnyvale East and West Channels	20,025	50,410	17,445	70,435	1,508	Design	CSC
Subtotal:			20,025	50,410	17,445	70,435	1,508		

Guadalupe Watershed

B	30114002	Canoas Creek, Rodent Damage Repair	6,887	0	0	6,887	(43)	Construction	PT
B	30154019	Guadalupe River Tasman Dr - I-880	1,081	95,137	3,305	96,218	95,218	Planning	PT
C	26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)	111,521	58,064	9,975	169,585	2,459	Des/Const	CSC/SCW
Subtotal:			119,489	153,201	13,280	272,690	87,541		

PRELIMINARY FY21 - 25 CIP

Flood Protection Projects

Revenue Sources: COP Proceeds, CSC Special Tax, Property Tax, Subventions

PRELIMINARY CIP

FY 2021 5-Year CIP Data

FY 2021 5-Year CIP Data			A	B	A + B				
Project Category	Number	Project Name	Actual/ Appropriated thru FY20*	Remaining Cost to Completion	FY21 Plnd Expnd	FY21-35 Project Value	Change from FY20	Project Phase (FY21)	Funded By
Values last updated: 11/26/19 (All values are in thousands)									
Coyote Watershed									
C	26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	54,531	50	50	54,581	6,632	Des/Const	CSC
E	40174004s	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	121,163	74,122	1,691	195,285	-1,996	Des/Const	PT
C	26174043	Coyote Creek, Montague Expressway to Tully Road (E3)	13,929	24,900	1,024	38,829	(2,278)	Plng/Des	CSC
E	40264011	Cunningham Flood Detention Certification	11,487	32	32	11,519	0	Construction	PT
E	40334005	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	17,460	10,352	8,781	27,812	975	Des/Const	PT
E	40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	101,525	322	209	101,847	44	Construction	Subvent
C	40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	13,746	38,988	0	52,734	(3,112)	Planning	PT/SCW
Subtotal:			333,841	148,766	11,787	482,607	265		
Uvas/Llagas Watershed									
B	50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	4,138	9,614	861	13,752	(144)	Design	Subvent
C	26174051s	Llagas Creek–Upper, Buena Vista Avenue to Llagas Road	119,762	164,665	47,658	284,427	61,172	Construction	CSC/SCW
Subtotal:			123,900	174,279	48,519	298,179	61,028		
Multiple Watershed									
C	00044026s	San Francisco Bay Shoreline (E7)	43,620	48,935	18,470	92,555	(2,516)	Const	PT
C	00044026	San Francisco Bay Shoreline	22,442	45,685	17,840	68,127	(2,340)	Des/Const	PT
C	26444001	San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)	17,516	0	0	17,516	6	Des/Const	PT
C	26444002	San Francisco Bay Shoreline - Other EIAs Planning (E7)	2,813	3,250	630	6,063	(182)	Planning	PT
B	62084001	Watersheds Asset Rehabilitation Program	35,936	141,102	11,423	177,038	(4,537)	Plng/Des/Const	PT
Subtotal:			79,556	190,037	29,893	269,593	(7,053)		
Flood Protection Total:			848,066	773,047	127,844	1,621,113	168,091		

PRELIMINARY FY21 - 25 CIP

Flood Protection Projects

Revenue Sources: COP Proceeds, CSC Special Tax, Property Tax, Subventions

PRELIMINARY CIP

FY 2021 5-Year CIP Data

FY 2021 5-Year CIP Data			A	B	A + B				
Project Category	Number	Project Name	Actual/	Remaining	FY21-35				
			Appropriated	Cost to	FY21 Plnd	Project	Change	Project Phase	Funded
			thru FY20*	Completion	Expnd	Value	from FY20	(FY21)	By
			Values last updated: 11/26/19 (All values are in thousands)						

Validated - Future Unfunded Projects

None

Validated - Unfunded Total: 0

Legend:

- Black - Black Text: Continuing projects or projects carried forward from the FY20 CIP
- Orange - Orange Text: Projects to be completed or cancelled in FY 2019
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 21 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of FP Projects

0
6
12
0
4
0

22

Funded by Legend:

- W-2 - North Zone; revenue is allocated based on % of benefit to the zone
- W-5 - South Zone; revenue is allocated based on % of benefit to the zone
- CSC - funded by revenue from Clean Safe Creeks program
- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

PRELIMINARY FY21 - 25 CIP

Water Resources Stewardship Projects

Revenue Sources: Groundwater Charges, Property Tax, Subventions

PRELIMINARY CIP

FY 2021 5-Year CIP Data

Project Category	Number	Project Name	A	B	A + B		Project Phase (FY21)	Funded By
			Actual/ Appropriated thru FY20*	Remaining Cost to Completion	FY21 Plnd Expnd	FY21-35 Project Value	Change from FY20	

Values last updated: 11/26/19 (All values are in thousands)

FY 2021 - 2025 CIP

Mitigation (All Mitigation projects are required per CEQA or other Regulation and therefore do not receive a score)

A	62184001	SMP Mitigation, Stream and Watershed Land Preservation	16,164	471	471	16,635	(134)	Continuing	PT
Subtotal:			16,164	471	471	16,635	(134)		

Environmental Enhancement & Stewardship

Lower Peninsula Watershed

C	00294001s	Stevens Creek Fish Passage Enhancement D4.x	850	18,684	2,077	19,534	(579)	FY21	W-2 (90%)/PT(10%)
C	26164001	Hale Creek Enhancement Pilot Study (D6)	4,933	0	0	4,933	80	Const/closeout	CSC/SCW

Guadalupe Watershed

C	26044001	Almaden Lake Improvements (D4.1a)	5,706	25,631	8,833	31,337	(159)	Des	CSC/SCW
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Coyote Watershed

F	00C40400s	Watershed Habitat Enhancement Design & Construction	0	60,466	2,100	60,466	(1,804)	FY21	
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Multiple Watersheds (Lower Peninsula, Guadalupe, Coyote, Uvas/Llagas)

C	20444001s	Salt Ponds A5-11 Restoration	4,980	6,857	579	11,837	(275)	Planning	PT/SCW
C	26044002	SCW Fish Passage Improvements (D4.3; Bolsa, Evelyn, Singleton)	5,327	0	0	5,327	(1)	Const	SCW
C	26C40370	SCW Implementation Fund	0	3,529	0	3,529	0	Plng	SCW
C	26044003	Ogier Ponds Separation from Coyote Creek (D4.1b)	1,442	1,541	1,541	2,983	(215)	Planning	SCW

Subtotal: 23,238 116,708 15,130 139,946 (2,953)

Feasibility Studies

F	62044001	Watershed Habitat Enhancement Studies	2,696	0	0	2,696	403	Plan/Feasibility	PT
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Subtotal: 2,696 0 0 2,696 403

Water Resources Stewardship Total: 42,098 117,179 15,601 159,277 (2,684)

PRELIMINARY FY21 - 25 CIP

Water Resources Stewardship Projects

Revenue Sources: Groundwater Charges, Property Tax, Subventions

PRELIMINARY CIP

FY 2021 5-Year CIP Data

Project Category	Number	Project Name	A	B	A + B			Project Phase (FY21)	Funded By
			Actual/ Appropriated thru FY20*	Remaining Cost to Completion	FY21 Plnd Expnd	FY21-35 Project Value	Change from FY20		

Values last updated: 11/26/19 (All values are in thousands)

Validated - Future Unfunded Projects

Stewardship

None

0 0 0 0

Validated - Unfunded Total: 0 0 0 0

NOTES:

- 1) Implementation of the Mitigation projects is considered non-discretionary since they are needed to meet California Environmental Quality Act (CEQA) or regulatory commitments. Therefore, a priority score is not required.
- 2) Environmental Enhancement projects are implemented at the discretion of the Board. Projects may go through a ranking process to compete for CSC funds or the board may direct that other available revenue be used to implement the proposed projects.

Legend:

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- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 21 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of WRS Projects

1
0
7
0
0
2
10

Funded by Legend:

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- Subvent - funded by State Subventions

PRELIMINARY FY21 - 25 CIP

Buildings and Grounds Projects

Revenue Source: Groundwater Charges, Property Tax

PRELIMINARY CIP

FY 2021 5-Year CIP Data

FY 2021 5-Year CIP Data			A	B	A + B							
Project Category	Number	Project Name	Actual/	Remaining			Project					
			Appropriated	Cost to	FY21 Plnd		Change	Phase	Funded	WUE	WSS	SCW
			thru FY20*	Completion	Expnd	Value	from FY20	(FY21)	By	%	%	%
Values last updated: 11/26/19 (All values are in thousands)												

FY 2021 - 2025 CIP

B	60204016	Facility Management, Small Capital Improvements	2,063	30,000	3,000	32,063	(5,855)	Continuing	PT/W-2/W-5	60%	40%	0%
F	60204032	Headquarters Operations Building	19	16,396	0	16,415	607	On Hold	PT/W-2/W-5	60%	40%	0%
Buildings & Grounds Total:			2,082	46,396	3,000	48,478	(5,248)					

Validated - Future Unfunded Projects

F	60C40363	Fleet and Facility Annex Improvements	0	4,719	0	4,719	0		PT/W-2/W-5	60%	40%	0%
Validated - Unfunded Total:			0	4,719	0	4,719	0					

Legend:

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- Orange - Orange Text: Projects to be completed or cancelled in FY 2020
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 21 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of B&G Projects

A. Regulatory requirements	0
B. Repair or replacement of aging infrastructure	1
C. District commitment (SCW, FAHCE)	0
D. Water Utility Master Plan "No Regrets"	0
E. Board Policy	0
F. Discretionary projects as directed by the Board	2
	3

Funded by Legend:

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- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

PRELIMINARY FY21 - 25 CIP

Information Technology Projects

Revenue Source: Groundwater Charges, Property Tax

PRELIMINARY CIP

FY 2021 5-Year CIP Data

Project Category	Number	Project Name	A Actual/ Appropriated thru FY20*	B Remaining Cost to Completion	FY21 Plnd Expnd	A + B FY21-25 Project Value	Change from FY20	Project Phase (FY21)	Funded By	WUE %	WSS %	SCW %
Values last updated: 11/26/19 (All values are in thousands)												

FY 2021 - 2025 CIP

F	73274009	Data Consolidation	1,083	152	75	1,235	(4)	Construction	PT/W-2/W-5	65%	35%	0%
F	73274011	E-Discovery Management System	561	0	0	561	16	Const/Close	PT/W-2/W-5	65%	35%	0%
B, E	73274001	IT Disaster Recovery	1,450	1,013	801	2,463	(32)	Construction	PT/W-2/W-5	65%	35%	0%
B	73274002	ERP System Implementation	11,247	6,131	5,618	17,378	(1,292)	Construction	PT/W-2/W-5	65%	35%	0%
B	73274012	Telephone System Voiceover IP	1,116	132	132	1,248	(4)	Des/Const	PT/W-2/W-5	65%	35%	0%
B	73274008	Software Upgrades & Enhancements	3,184	13,887	872	17,071	(503)	Des/Const	PT/W-2/W-5	65%	35%	0%
B	95274003	WTP-WQL Network Equipment	2,908	9,155	0	12,063	(288)	Construction	PT/W-2/W-5	100%	0%	0%
B	95074039	Capital Construction Mgmt System	100	1,143	1,033	1,243	159	Plng/Des/Const	PT/W-2/W-5	100%	0%	0%

Information Technology Total: 21,649 31,613 8,531 53,262 (1,948)

Validated - Future Unfunded Projects

None	0	0	0	0
Validated - Unfunded Total:	0	0	0	0

Legend:

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- Orange - Orange Text: Projects to be completed or cancelled in FY 2020
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 21 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of IT Projects

0
5
0
0
1
2
8

PRELIMINARY FY21 - 25 CIP

Information Technology Projects

Revenue Source: Groundwater Charges, Property Tax

PRELIMINARY CIP

FY 2021 5-Year CIP Data

Project Category	Number	Project Name	Actual/	Remaining		FY21-35						
			Appropriated	Cost to	FY21 Plnd	Project	Change	Project Phase	Funded	WUE	WSS	SCW
			thru FY20*	Completion	Expnd	Value	from FY20	(FY21)	By	%	%	%
Values last updated: 11/26/19 (All values are in thousands)												

Funded by Legend:

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- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

CIP GRAND TOTAL: 1,524,521 3,835,881 318,525 5,360,402 1,511,671

PROJECT DRIVER TOTALS: 11 28 23 0 8 7 77

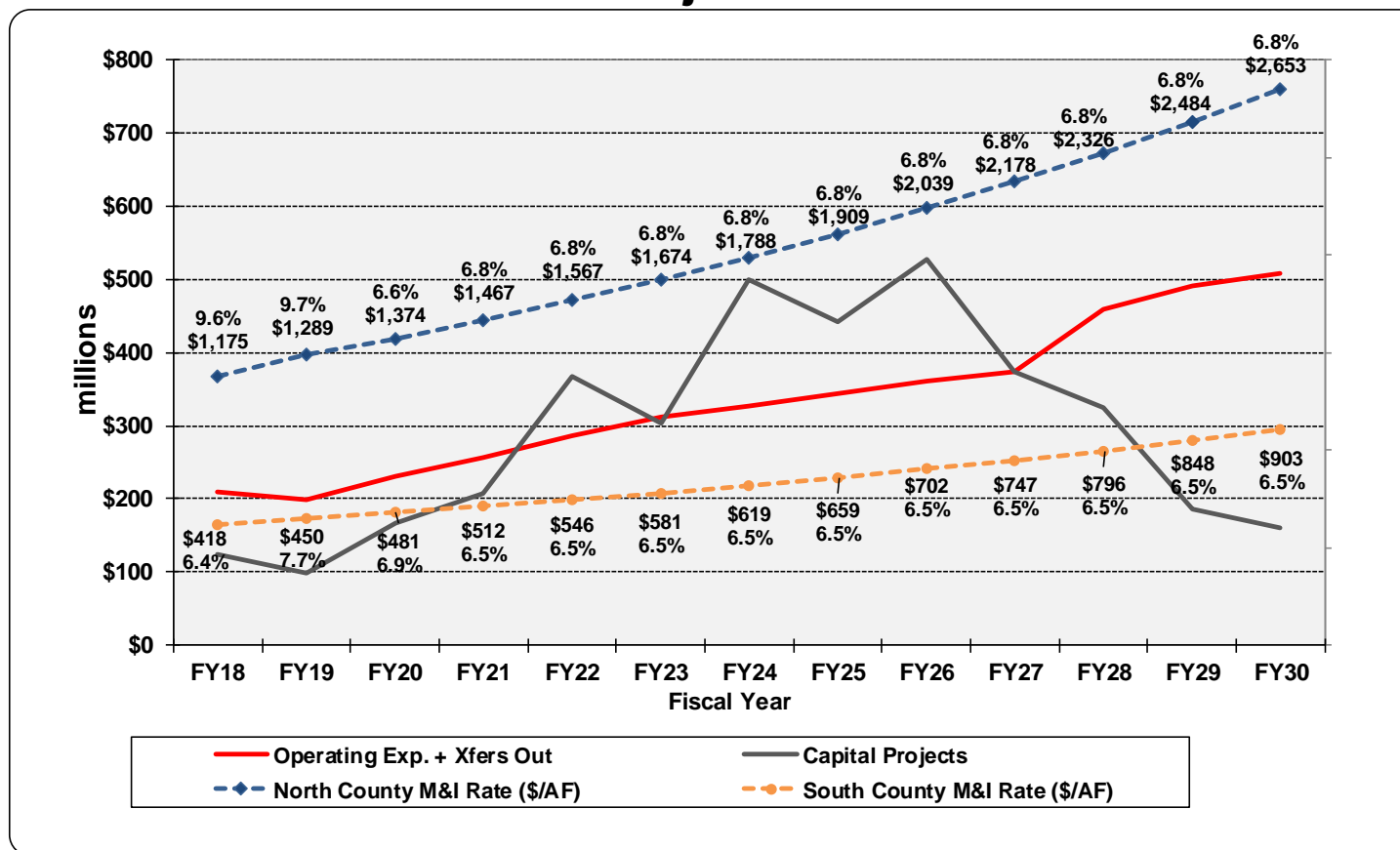
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Water Utility Enterprise Fund

Financially healthy but facing several upward pressures on water rates

1

Projection



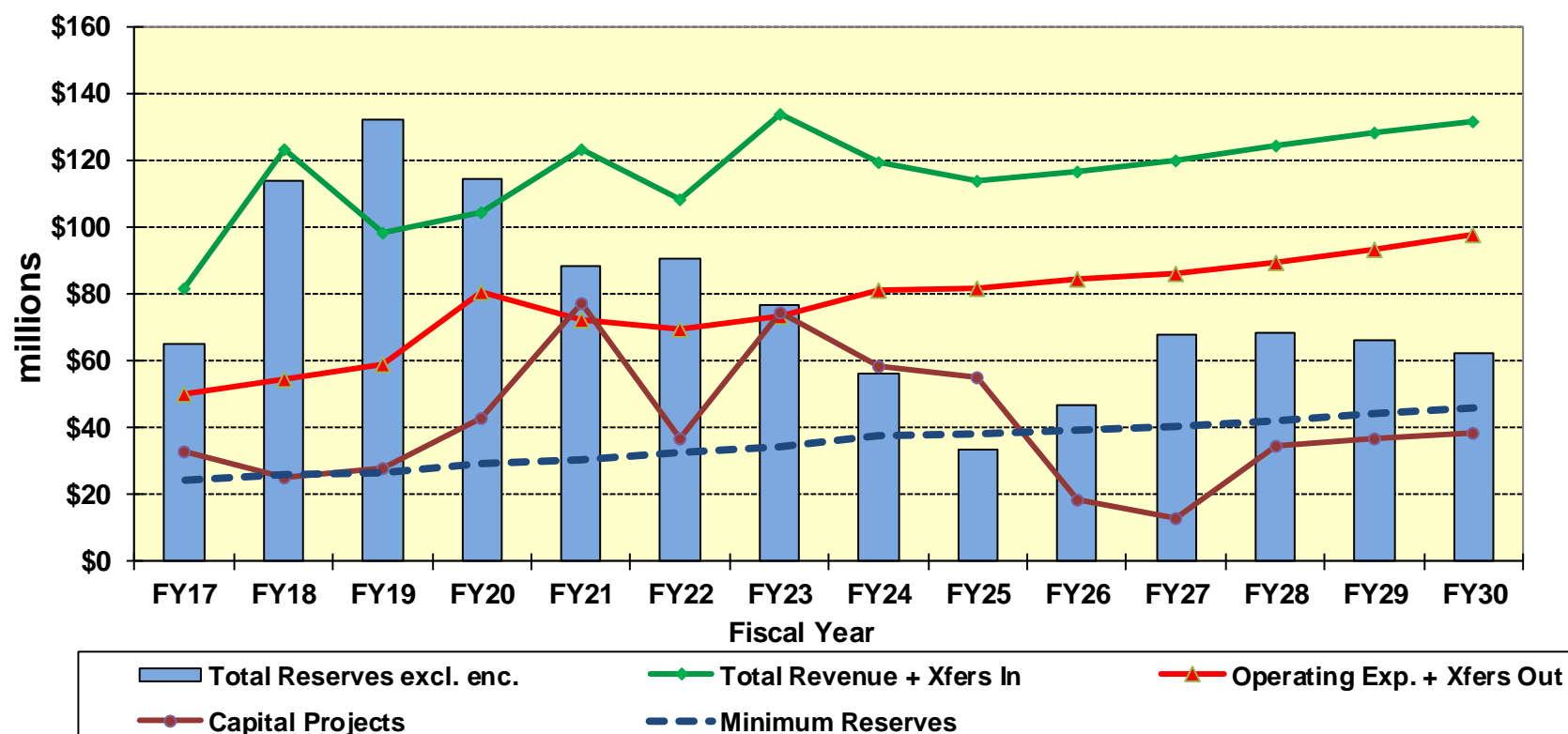
- Draft Baseline Case (Scenario 9) shown
 - Also includes \$90M for AVP replacement
- Upward pressure on water rates not shown includes:
 - Delta Conveyance (incremental SWP to cover CVP portion)
 - Pacheco Reservoir Expansion without \$250M WIIN funds
 - Lower water usage forecast

Watershed and Stream Stewardship Fund

Reserves fall below minimum levels in FY 25

2

Projection

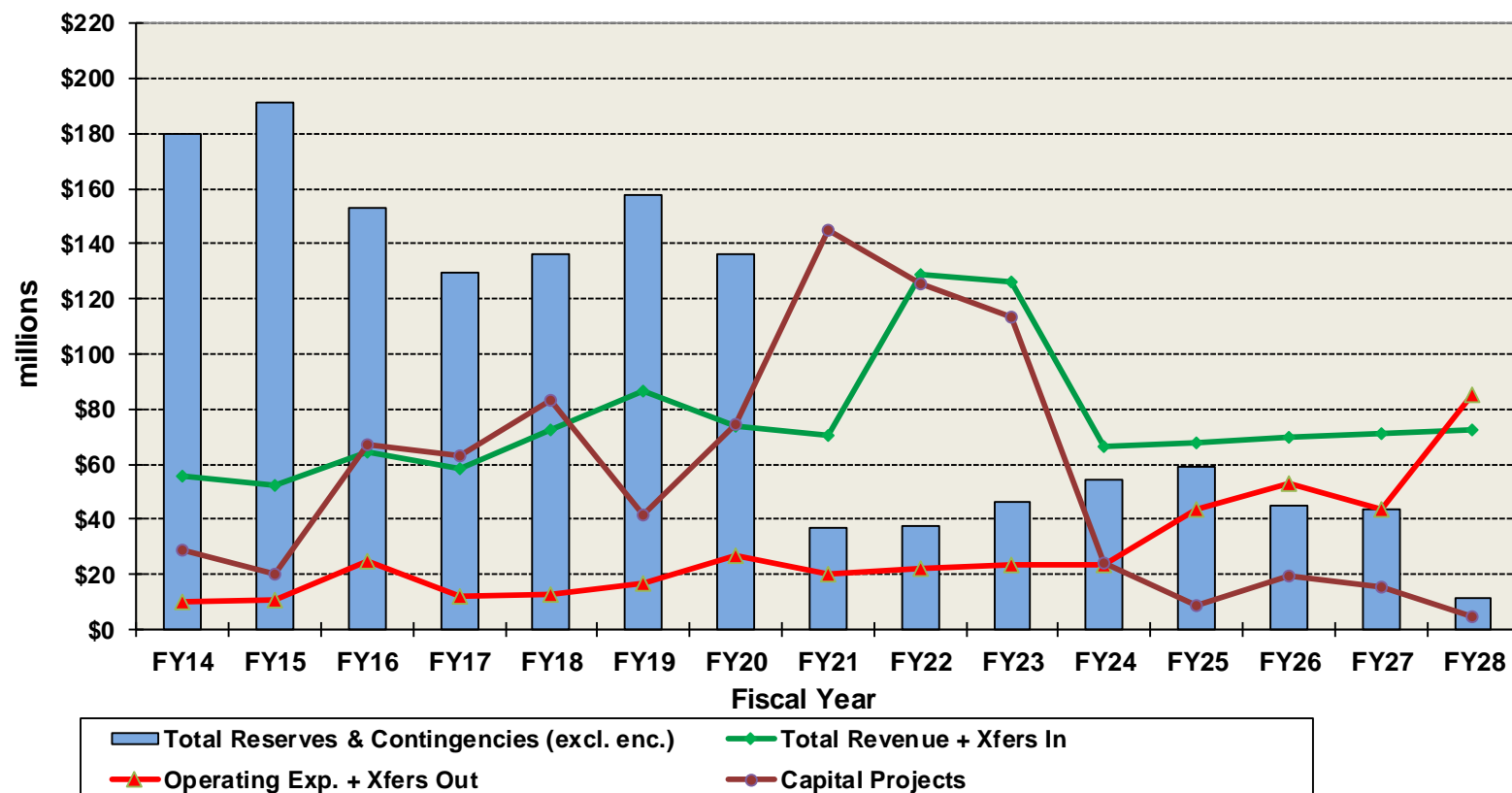


- Includes \$96M Guadalupe River Project (Tasman Dr. to I880)
- Does not include backlog of O&M activities

Safe, Clean Water Fund

Projecting small surplus at end of Safe Clean Water Program

Projection



- Assumes \$100M NRCS Reimbursements for Upper Llagas Creek
- Assumes receipt of \$20M in outside funding sources from grants and partnerships for San Francisquito Creek

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Santa Clara Valley Water District

File No.: 19-1165

Agenda Date: 12/9/2019

Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Receive Updated Analysis Regarding the Capital Improvement Program Committee's Recommended Funding Scenario for Safe, Clean Water and Natural Flood Protection Program Flood Protection Projects.

RECOMMENDATION:

- A. Receive updated analysis regarding the Capital Improvement Program (CIP) Committee's recommended funding scenario for Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) Flood; and
- B. Protection Projects; and Provide feedback to staff, as necessary.

SUMMARY:

Background

On November 18, 2019, the CIP Committee received updates on the following flood protection projects in the Safe, Clean Water Program:

- a. Coyote Creek
- b. Upper Penitencia Creek
- c. Upper Llagas Creek
- d. Upper Guadalupe River

After receiving the project updates, the CIP Committee reviewed potential funding scenarios and approved a recommendation to the Board to proceed with Scenario 2 (Attachment 1).

The CIP Committee recommended Scenario 2 as the best option because it allows each project to advance, while maximizing flood protection provided to the community with the available Safe, Clean Water Program funding.

After receiving the committee's recommendation and in preparation for presentation to the full Board, staff performed additional analysis regarding Funding Scenario 2 in relation to the Safe, Clean Water Program's Change Control Process, which serves as a guideline for making changes to the Program (Attachment 2).

According to the Change Control Process, a public hearing is required before action can be taken to modify a project key performance indicator (KPI). Also, when transfer or reallocation of funding between projects impacts a KPI, such action requires a public hearing be conducted in order to

modify the KPI.

Scenario 2 is summarized below along with staff's updated Change Control Process analysis that indicates whether a public hearing is required for each project.

Scenario 2 - Summary and Analysis by Flood Protection Project

Coyote Creek

Summary: Recommended Scenario 2 proposes to reallocate \$23 million in funding from the Upper Penitencia Creek Flood Protection Project (Upper Penitencia Creek Project) to the Coyote Creek Flood Protection Project (Coyote Creek Project). This reallocation will increase the Coyote Creek Project allocation to \$51 million, conservatively addressing the estimated remaining costs to build the preferred project.

Analysis: A public hearing is ***not required*** as reallocating funding to the project will financially support the cost of constructing the preferred project KPI.

Upper Penitencia Creek

Summary: The remaining allocation of \$24 million for the Upper Penitencia Creek Project will be sufficient to proceed with Phase I of the project, which addresses the local-funding only KPI and Phase II of the project, which is part of the preferred project. This will maximize the flood protection for the community, as the two phases combined will protect 1,250 parcels.

Analysis: A public hearing is ***not required*** as reallocating funding to the Coyote Creek Project will not impact the delivery of the local-funding only KPI. The local-funding only KPI could be modified to reflect the addition of the Phase II reaches; however, staff is not recommending doing so. Pursuant to this funding scenario, Valley Water already plans to deliver the existing locally-funded option as well as build the reaches of the preferred project that can be constructed with the available funding.

Upper Llagas Creek

Summary: Scenario 2 also proposes moving forward with construction of the Upper Llagas Creek Flood Protection Project (Upper Llagas Creek Project) with the remaining secured funds by constructing Phase 2.a., which entails constructing the tunnel. The primary objective of the project is to plan, design and construct improvements along 13.9 miles of Upper Llagas Creek from Buena Vista Avenue in Gilroy to Llagas Road in Morgan Hill, including West Little Llagas Creek in downtown Morgan Hill. Flood protection will be provided to the community once the preferred project is fully constructed.

Analysis: A public hearing ***is required***. Constructing the tunnel will fully utilize the remaining local funding, thus impacting the ability to fully construct Reach 7, which is the current local-funding only KPI. Based upon this, staff plans to propose a modification to the local-funding only KPI that increases the length of the project to be built by the available local funds from approximately 2.9 miles to 4.9 miles, in addition to constructing the onsite compensatory mitigation. Besides getting the most out of the available local dollars, this approach keeps the project moving forward, shortens the construction window without inducing flooding downstream and maximizes the potential for external

funding opportunities. This modification also reflects the improved collaboration with the regulatory permitting agencies that required early mitigation for the project's impacts.

Upper Guadalupe River

Summary: Scenario 2 proposes fully utilizing the remaining allocation for the Upper Guadalupe River Flood Protection Project to construct Reaches 7 and 8 of the Project at a 50-year level of protection while constructing the bridges at a 100-year level (1% flood protection). This will allow Valley Water to maintain its partnership with the U.S. Army Corps of Engineers while moving forward with delivering a substantially improved level of flood protection to the community, as those reaches currently only have the capacity to contain a 5-year level event.

Analysis: A public hearing ***is required***. Scenario 2 proposes modifying the local-funding only KPI, which in summary, currently requires construction of Reach 7 at the 100-year or 1% flood protection level.

Next Steps

Staff will present the project updates and funding scenarios to the full Board during a special board meeting on December 17, 2019. Should the Board decide to proceed with Scenario 2, this will require that the Board set the time and place for a public hearing to modify the local-funding only KPIs for the Upper Llagas Creek and Upper Guadalupe River flood protection projects. To align with the development of the Fiscal Years 2021-2025 CIP and the Budget process, staff plans to recommend that the Board set the public hearing for January 14, 2020, at 1:00 p.m.

Should the Board direct staff to proceed with the public hearing, a public notice ad will be published in compliance with California Government Code Section 6066.

ATTACHMENTS:

Attachment 1: Funding Scenarios

Attachment 2: Change Control Process

UNCLASSIFIED MANAGER:

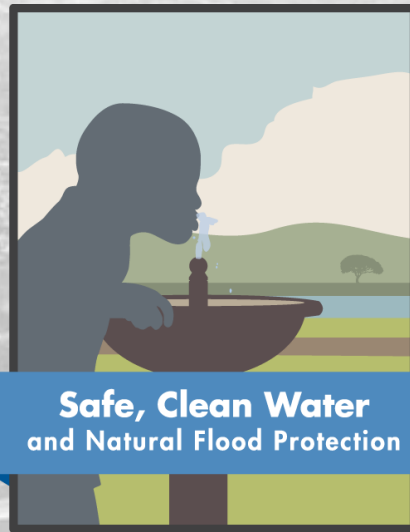
Melanie Richardson, 408-630-2035

Nina Hawk, 408-630-2736

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Safe, Clean Water and Natural Flood Protection Program Flood Protection Projects Funding Scenarios 12/17/19										
Safe, Clean Water Flood Protection Projects							Potential Scenarios for Board Consideration			
Program Priority	Flood Protection Projects	KPIs or Additional Alternatives		Estimated Remaining Cost	Current Remaining Secured Funding (incl. planned future yrs) (All Funds)	Potential Shortfall or Available Funds	Current Status	Scenario 1	Scenario 2	Scenario 3
CSC	Coyote Creek	KPI #1: Preferred Project w/federal and local funding	Secure alternative funding sources to construct a flood protection project that provides flood risk reduction from floods up to the level of flooding that occurred on February 21, 2017, approximately a 20 to 25 year flood event, between Montague Expressway and Tully Road.	\$40M - \$85M	\$28M	(\$12M - \$57M)	KPI 2.a. has been accomplished. 2.b. is underway. Draft Problem Definition Report completed in Jan. 2019; Detailed alternatives analysis underway currently; Draft Planning Study Report to be completed by Jan. 2020. Public meetings scheduled for early Nov. 2019 will better inform the preferred project selection and help to narrow the potential cost estimates.	Reallocate \$57M to Coyote Creek to address worst case scenario shortfall (\$47M from Upper Penitencia and \$10M from Upper Guadalupe) to demonstrate ability to construct the project, for a total budget of approximately \$85M.	Reallocate \$23M funding to Coyote Creek (\$23M from Upper Penitencia) to address best case scenario shortfall and demonstrate commitment to the project, for a total budget of approximately \$51M. Reassess additional funding needs once design is narrowed.	Reallocate \$45M in funding to Coyote Creek (\$30M from Upper Penitencia and \$15M from Upper Guadalupe) to address shortfall, for a total budget of approximately \$73M. Reassess additional funding needs once design is narrowed.
		KPI #2: Local-funding-only	(a) Identify short-term flood relief solutions and begin implementation prior to the 2017-2018 winter season; (b) Complete the planning and design phases of the preferred project; and (c) With any remaining funds, identify and construct prioritized elements of the preferred project.	\$28M		\$0M				
E4	Upper Penitencia Creek	KPI #1: Preferred Project w/federal and local funding	Construct a flood protection project to provide 1% flood protection to 5,000 homes, businesses and public buildings. (Phase 1 -3 (Reaches 1-7), combined protects 8,000 parcels)	Phase I (17M) + Phase II (57M) + Phase III (\$43M) = \$67M	\$47M	(\$20M)	Planning study completed. Recommended project identified July 2019; USACE does not support multi-objective project; construction extent and options are unknown until completion of planning.	Modify KPI #2 to planning only and reallocate \$47M in remaining funds to Coyote Creek Project.	Construct local-funding only KPI (Phase I) as well as portion of the preferred project (Phase II) to maximize protection, and reallocate \$23M in remaining available funds to Coyote Creek Project.	Construct local funding only KPI (Phase I) and reallocate remaining available funds of \$30M to Coyote Creek Project.
		KPI #2: Local-funding-only	Acquire all necessary rights-of-way and construct a 1% flood protection project from Coyote Creek confluence to King Road. (Phase I - Reach 1, protects 450 parcels)	Phase I (\$17M)		\$30M				
		Additional Alternative	Construct Phase I and Phase II, combined protects 1,250 parcels (Reaches 2 and 3 - King Rd. to Capital, protects 800 parcels)	Phase I (\$17M) + Phase II (57M) = \$24M		\$23M				
E6	Upper Llagas Creek	KPI #1: Preferred Project w/federal and local funding	Provide flood protection to 1,100 homes, 500 businesses, and 1,300 agricultural acres, while improving stream habitat. (Phases 1 and 2)	TBD	\$31M	N/A	The Phase 1 Construction Contract was awarded to Graniterock Construction in the sum of \$68,118,602 on 7/23/19. The design documents for Phase 2 are 95% complete and there remains approximately six (6) required parcels to be acquired. If funding secured construction could start by summer 2020.	No change.	No change.	No change.
		KPI #2: Local-funding-only	Provide 100-year flood protection for Reach 7 only (up to W. Dunne Avenue in Morgan Hill). A limited number of homes and businesses will be protected. (Portions of Reach 7 are included in Phases 1 and 2)	TBD		N/A		No change.	No change.	No change.
		Additional Alternatives	Phase 1: Reaches 4, 5 (portion), and 7A (Buena Vista Ave. to Hwy 101 in San Martin and from Monterey Rd to Watsonville Rd in Morgan Hill)	\$82.8M (combined construction)		\$0		Under construction. No action required.	Under construction. No action required.	Under construction. No action required.
			Phase 2: Reaches 5 (portion), 6, 7B, 8 and 14 (Hwy 101 to Monterey Rd in San Martin, from Watsonville Rd to Llagas Rd in Morgan Hill, and from Sycamore Ave to approx. Hwy 101 in San Martin)	\$119M (combined construction est.)		\$88M		No change. Wait until NRCS funding is determined.	No change. Wait until NRCS funding is determined.	No change. Wait until NRCS funding is determined.
			Phase 2 a: Use the remaining available funds to construct the tunnel without connecting it to avoid transferring risk of flooding.	\$30M		\$0		Construct Phase 2a. Modify local-funding only project to reflect phased approach to construction of the preferred project.	Construct Phase 2a. Modify local-funding only project to reflect phased approach to construction of the preferred project.	Construct Phase 2a. Modify local-funding only project to reflect phased approach to construction of the preferred project.
E8	Upper Guadalupe River	KPI #1: Preferred Project w/federal and local funding	Construct a flood protection project to provide 1% flood protection to 6,280 homes, 320 businesses and 10 schools and institutions.	\$247M (50% of USACE est. of \$494M)	\$54M	(\$193M)	Reaches 10B and 12 of the project were completed in 2015 and Reach 6 will be done with the completion of the gravel augmentation project by summer 2020 to help advance the overall project. Reaches 7&8 are at 65% design w/USACE. Reaches 9, 10A, 10C and 11 are postponed as USACE re-evaluates total project cost.	TBD based upon USACE Re-evaluation.	TBD based upon USACE Re-evaluation.	TBD based upon USACE Re-evaluation.
		KPI #2: Local-funding-only	Construct flood protection improvements along 4,100 feet of Guadalupe River between Southern Pacific Railroad (SPRR) crossing, downstream of Willow Street, to Union Pacific Railroad (UPRR) crossing, downstream of Padres Drive (Reach 7). Flood damage will be reduced; however, protection from the 1% flood is not provided until completion of the entire Upper Guadalupe River Project.	\$52.5M		\$1.5M		Modify local-funding only project to construct Reach 7 at 50-yr channel w/100-yr bridges and reallocate \$10M to Coyote Creek project.	Modify local-funding only project to construct Reaches 7 and 8 at 50-yr channel w/100-yr bridges.	Modify local-funding only project to construct Reach 7 at 50-yr channel and reallocate \$15M to Coyote Creek project.
		Additional Alternatives	Modify KPI #2 to construct Reaches 7 and 8 at 100-yr level protection	\$67.2M		(\$13.2M)				
			Modify KPI #2 to construct Reach 7 at 50-year level protection.	\$39M		\$15M				
			Modify KPI #2 to construct Reaches 7 and 8 at 50-yr level protection	\$49.4M		\$4.6M				
			Modify KPI #2 to construct Reach 7 at 50-yr channel w/100-yr bridges	\$41.7M		\$12.3M				
			Modify KPI #2 to construct Reach 7 and 8 at 50-yr channel w/100-yr bridges	\$52.1M		\$1.9M				

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Safe, Clean Water and Natural Flood Protection Program Change Control Process



Agenda

▶ **Change Control Processes**

- ▶ Adjustments v. Modifications
- ▶ Processes for Adjustments
- ▶ Process for Modifications/Non-implementation

Adjustments v. Modifications

Types of Changes	Adjustments	Modifications
Text	Edits to text for correction of grammatical errors, information/data updates, and overall readability	Changes to a project's KPIs
Schedule	Adjustments to project schedules provided in the original Safe, Clean Water Program	
Funding	Fiscal Year budget adjustments and increases to project funding allocations that do not impact any project deliverables in the Safe, Clean Water Program	Increases to project funding allocations that will impact any project's KPIs in the Safe, Clean Water Program

Processes for Adjustments

Adjustments	Processes
Edits to text for correction of grammatical errors, information/data updates, and overall readability	<ol style="list-style-type: none"> 1. Board approval will be sought at the time the Draft Safe, Clean Water Annual Report is presented for approval. 2. Board approved adjustments to text will be updated in the 5-Year Implementation Plan and included in future Safe, Clean Water Annual Reports, which will both be posted to the website.
Adjustments to project schedules provided in the original Safe, Clean Water Program	<ol style="list-style-type: none"> 1. Capital project schedules will be approved by the Board through the biannual capital project status report. 2. Schedule adjustment updates will take place at the end of the fiscal year or as needed. 3. Schedule comparison of the original Safe, Clean Water Program project schedule to the project's current schedule will be included in the Safe, Clean Water Annual Report. 4. This information will be posted to the Program's web page and updated in the 5-Year Implementation Plan.
Fiscal Year budget adjustments and increases to project funding allocations that do not impact any project deliverables in the Safe, Clean Water Program	<ol style="list-style-type: none"> 1. Comply with District processes for budget adjustments. 2. Approval for increases to project funding allocations will follow the District's annual budget process, with analysis provided as to the impact on the overall Safe, Clean Water fund to ensure that any project KPIs in the Program will not be impacted. 3. Annual and Cumulative Financial Summary information will be included in the Safe, Clean Water Annual Report. 4. This information will be posted to the Program's web page and updated in the 5-Year Implementation Plan.

Processes for Modifications and Non-Implementation

Modifications	Process
Changes to a project's KPIs	<ol style="list-style-type: none">1. Public hearing2. Approved modifications will be included in the Safe, Clean Water Annual Report, posted to the Program's web page and updated in the 5-Year Implementation Plan
Increases to project funding allocations that will impact other project's deliverables in the Safe, Clean Water Program	<ol style="list-style-type: none">1. Public hearing2. Approved modifications will be included in the Safe, Clean Water Annual Report, posted to the Program's web page and updated in the 5-Year Implementation Plan

Non-implementation	Process
Decision to not implement a project	<ol style="list-style-type: none">1. Public hearing2. Approved non-implementation of a project will be included in the Safe, Clean Water Annual Report, posted to the Program's web page and updated in the 5-Year Implementation Plan

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Santa Clara Valley Water District

File No.: 19-1140

Agenda Date: 12/9/2019

Item No.: 4.5.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

2019 Capital Improvement Committee Work Plan, and Proposed 2020 Work Plan and Meeting Schedule.

RECOMMENDATION:

- A. Review the 2019 Capital Improvement Program Committee Work Plan and make revisions as necessary;
- B. Review the proposed 2020 Capital Improvement Program Committee Work Plan and make revisions as necessary; and
- C. Review and approve the proposed 2020 CIP Committee meeting schedule.

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.

The 2019 Capital Improvement Program Committee (CIP) Work Plan is contained in Attachment 1. Information in this Plan document was provided by staff as follows:

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.

The Draft 2020 CIP Work Plan contained in Attachment 2 is presented for the Committee's review to determine topics for discussion in 2020.

The proposed 2020 CIP Committee meeting schedule contained in Attachment 3 is presented for the Committee's review and approval to enable staff to begin logistical coordination. All meetings have been scheduled to occur on the second Monday of each month in 2020 in accordance with the

Committee's charter, except for the October meeting, which has been rescheduled to October 19, 2019, due to the holiday schedule.

ATTACHMENTS:

Attachment 1: 2019 CIP Committee Work Plan

Attachment 2: Draft 2020 CIP Committee Work Plan

Attachment 3: 2020 CIP Meeting Schedule

UNCLASSIFIED MANAGER:

Michele King, 408-2630-2711

CIP Committee 2019 Workplan

	<i>Jan 3</i>	<i>Jan 14</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>21-Oct</i>	<i>24-Oct</i>	<i>Nov</i>	<i>Dec</i>
CIP Implementation														
Public Private Partnership (P3) Delivery for projects														
Safe, Clean Water Projects Implementation				X	X					X		X	X	
Presentation on Design-Build		X												
Project Labor Agreement			X	X	X		X	X			X			
Construction Management Resource Needs			X											
Calero Dam Seismic Upgrade and Water Reliability Analysis	X			X										
Employee Workspace Study				X										
Capital Project Monitoring														
Construction		X			X				X				X	
Design			X				X			X				X
Planning/Feasibility	X			X				X				X		
Upcoming Consultant Agreements and Amendments	X	X		X			X	X	X	X				
Project Planning Studies for Board Review/Approval												X		X
CIP Development														
Preliminary CIP	X											X		X
Project Validation Process									X	X				

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DRAFT CIP Committee 2020 Workplan

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
CIP Implementation												
Safe, Clean Water Projects Implementation												
Other Capital Projects Implementation												
• Calero Dam Seismic Upgrade and Water Reliability Analysis	X											
• Cross Valley and Calero Pipelines Rehab Project	X											
Capital Project Monitoring												
Construction		X			X			X			X	
Design			X			X			X			X
Planning/Feasibility	X			X			X			X		
Upcoming Consultant Agreements and Amendments												
Project Planning Studies for Board Review/Approval												
CIP Development												
Preliminary CIP												X

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Capital Improvement Program Committee
Proposed Meeting Schedule

2020

JANUARY

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

MARCH

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MAY

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

JUNE

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JULY

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

AUGUST

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

SEPTEMBER

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

OCTOBER

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31


NOVEMBER

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

 = CIP Meeting

 = Holiday

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Valley Water 2020 Holiday Calendar

Wednesday	January 1 st	New Year's Day
Monday	January 20 th	Martin Luther King's Birthday
Monday	February 17 th	President's Day
Tuesday	March 31 st	Cesar Chavez Day
Monday	May 25 th	Memorial Day
Friday	July 3 rd	Independence Day
Monday	September 7 th	Labor Day
Monday	October 12 th	Indigenous Peoples' Day
Wednesday	November 11 th	Veteran's Day
Thursday	November 26 th	Thanksgiving Day
Friday	November 27 th	Friday after Thanksgiving Day
Friday	December 25 th	Christmas Day

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