



## Santa Clara Valley Water District Capital Improvement Program Committee

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

### RESCHEDULED REGULAR MEETING AGENDA

**Monday, January 14, 2019  
1:30 PM**

**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  
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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  
Office/Clerk of the Board  
(408) 265-2659  
ndominguez@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  
RESCHEDULED REGULAR MEETING  
AGENDA**

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Monday, January 14, 2019

1:30 PM

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

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**1. Call to Order/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 Card 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. Election of 2019 Chairperson and Vice Chairperson.**

**4. APPROVAL OF MINUTES.**

4.1. Approval of January 3, 2019 Meeting Minutes. **18-0749**

Recommendation: Approve the minutes.

Manager: Michele King, 408-630-2711

Attachments: Attachment 1: 010319 CIP Committee Minutes

Est. Staff Time: 5 Minutes

**5. ACTION ITEMS.**

5.1. Anderson Dam Improvements Update. (Continued from January 3, 2019) [19-0026](#)

Recommendation: Receive and discuss information regarding updates of Anderson Dam Improvements.

Manager: Christopher Hakes, 408-630-3796

Est. Staff Time: 10 Minutes

- 5.2. Capital Consultant Agreements and Amendments. (Continued from January 3, 2019) [19-0027](#)
- Recommendation: Receive information on upcoming consultant agreements and/or amendments that staff will be recommending for Board approval and provide direction as needed.
- Manager: Chris Hakes, 408-630-3796  
Ngoc Nguyen, 408-630-2632  
Katherine Oven, 408-630-3126  
Ashu Tikekar, 408-630-2424
- Est. Staff Time: 10 Minutes
- 5.3. Design-Build Project Delivery Method for Capital Projects. [18-1138](#)
- Recommendation: Receive information from staff regarding the design-build project delivery method for public works projects.
- Manager: Katherine Oven, 408-630-3126
- Attachments: [Attachment 1: Design-Build Delivery Method Presentation](#)
- Est. Staff Time: 10 Minutes
- 5.4. Capital Projects Status Updates - Construction [18-1139](#)
- Recommendation: Receive and discuss information regarding the status of capital projects in the construction phase.
- Manager: Katherine Oven, 408-630-3126  
Ngoc Nguyen, 408-630-2632
- Attachments: [Capital Project Monitoring - Construction](#)
- Est. Staff Time: 10 Minutes
- 5.5. 2019 Capital Improvement Committee Work Plan. [18-0750](#)
- Recommendation: Review the 2019 Capital Improvement Program Committee Work Plan and make revisions as necessary.
- Manager: Michele King, 408-2630-2711
- Attachments: [Attachment 1: 2019 CIP Committee Work Plan](#)
- Est. Staff Time: 10 Minutes

**6. INFORMATION ITEMS.**

**7. ADJOURN.**

- 7.1. 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.*

- 7.2. Adjourn to Regular Meeting at 10:00 a.m., on February 11, 2018, in the Santa Clara Valley Water District (HQ Boardroom/Board Conference Room A-124), 5700 Almaden Expressway, San Jose, California.

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**File No.:** 18-0749

**Agenda Date:** 1/14/2019

**Item No.:** 4.1.

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## **COMMITTEE AGENDA MEMORANDUM**

### **Capital Improvement Program Committee**

**SUBJECT:**

Approval of January 3, 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: 010319 CIP Committee Minutes

**UNCLASSIFIED MANAGER:**

Michele King, 408-630-2711

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BOARD OF DIRECTORS MEETING

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# MINUTES

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JANUARY 3, 2019  
10:00 AM

(Paragraph numbers coincide with agenda item numbers)

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

**1. CALL TO ORDER:**

1.1 Roll Call.

Committee members in attendance were District 4 Director L. LeZotte, District 6 Director T. Estremera, and District 5 Director N. Hsueh, Chairperson presiding, constituting a quorum of the Committee.

Staff members in attendance were J. Abadilla, K. Arends, A. Baker, R. Blank, J. Collins, N. Dominguez, C. Hakes, N. Hawk, N. Nguyen, L. Orta, K. Oven, B. Redmond, M. Richardson, L. Rossiter, A. Tikekar and T. Yoke.

1.2. 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.

**2. APPROVAL OF MINUTES:**

2.1. Approval of November 19, 2018 and December 10, 2018 Meeting Minutes.

The Committee considered the attached minutes of the November 19, 2018 and December 10, 2018 meetings.

Ms. Natalie Dominguez, Assistant Deputy Clerk II, noted the following information and corrections to the minutes:

- Handout 2.1-A, November 19, 2018 Capital Improvement Program Committee Minutes were being submitted to replace Item 2.1, Attachment 1, as the correct version of minutes for approval; and
- Noted the following administrative corrections to the December 20, 2018 Minutes:
  - Page 1, meeting title will be corrected to read **Board of Directors Capital Improvement Program Committee** Meeting, and

11/19/18

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- Page 3, Item 4.2, Line 1, will be corrected to read: Adjourn to **RegularSpecial** Meeting at 10:00 a.m., on ~~December 10,~~ **2018January 3, 2019.**

It was moved by Director LeZotte, seconded by Director Estremera, and carried that the minutes be approved as amended.

### 3. ACTION ITEMS:

#### 3.1 Calero Dam Seismic Upgrade and Water Reliability Analysis.

Chairperson Hsueh noted that this item was being presented to formulate a response to Director Kremen's email of November 13, 2018, identified as Handout 3.1-A, herein, requesting information regarding Calero's function and value to the District.

Mr. Kurt Arends, Deputy Operating Officer, Mr. Chris Hakes, Deputy Operating Officer, Ms. Nina Hawk, Chief Operating Officer, and Ms. Katherine Oven, Deputy Operating Officer, reviewed the information on this item per the Committee Agenda Memo.

The Committee requested that staff develop a more complete analysis of Calero's function and value, and alternatives to retrofit including associated costs to rehabilitate and improve Calero Dam vs. decommissioning the dam.

The Committee requested staff prepare a visual presentation to demonstrate how Calero Dam's rehabilitation could benefit the District's annual water supply and operational reliability, and the role Calero plays in storing and delivering water to the treatment plants, providing flood protection, benefits to the environmental and recreational use.

Mr. William Sherman, WRATES, discussed criteria used to determine seismic risk relative to major events. The Committee referred Mr. Sherman's comments to staff for further offline discussion.

The Committee requested that staff's response to Director Kremen's email be provided to the Committee at their February 11, 2019 meeting, and then be provided to the full Board at a subsequent meeting.

Chairperson Hsueh moved the agenda to Item 3.5, No. 3, Calero Dam Seismic Retrofit – Amendment 4 to Agreement No. A3902G with HDR Engineering, Inc., for Design Consultant Services, Project No. 91874004.

#### 3.5. Capital Consultant Agreements and Amendments.

Mr. Arends, Mr. Chris Hakes, and Ms. Oven reviewed the information on this item per the Committee Agenda Memo.

The Committee requested staff pause the consultant's progress and revise the item to clarify the driving factors of the amendment, e.g., relocation of the historic Bailey Fellows House, for the Board.

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Chairperson Hsueh returned the agenda to Item 3.2

3.2. Capital Project Monitoring – Planning/Feasibility.

Ms. Oven, Mr. Ngoc Nguyen, Deputy Operating Officer, Mr. Hakes and Mr. Sudhanshu Tikekar, Deputy Operating Officer, reviewed the information on this item per the Committee Agenda Memo. The corresponding materials in Attachment 1 were reviewed by staff as follows: Ms. Oven reviewed Items 1 through 3 and 5 through 8; Mr. Hakes reviewed Items 4 and 12, Mr. Nguyen reviewed Items 9 through 11 and 13 through 18, and Mr. Tikekar, reviewed Items 19 and 20.

Ms. Melanie Richardson, Chief Operating Officer, Watersheds, reported that Watershed Resources Stewardship would be moving from Mr. Nguyen to the leadership of Ms. Lisa Bankosh, Assistant Operating Officer. Ms. Richardson noted that support staff in the Watershed Stewardship and Planning Division would begin supporting both planning and design vs. one single element.

The Committee noted the information, without formal action.

3.3. Draft Preliminary Fiscal Years 2020-2024 Capital Improvement Program.

Mr. Nguyen and Ms. Oven reviewed the information on this item per the Committee Agenda Memo. The corresponding materials in Attachment 1 were reviewed by staff as follows: Ms. Oven reviewed changes to the Preliminary Capital Improvement Program document format regarding the legend key, project drivers, and Column A description, and reviewed Water Supply Projects on Pages 24 and 25; Mr. Nguyen reviewed Flood Protection and Water Resources Stewardship projects contained on pages 26 through 30; Ms. Tiny Yoke, Chief Administrative Officer, reviewed Buildings and Grounds Projects contained on Page 31.

Ms. Redmond clarified that the projects in the preliminary CIP have been incorporated into most of the water rate scenarios to be presented to the Board at the January 8 Board meeting. Ms. Hawk clarified that the Preliminary CIP content could change based on Board discussions and any direction to staff at the January 8 meeting.

The Committee requested staff identify issues and cost before adding the project to the Preliminary CIP, and directed staff to bring the proposed project to the full Board for consideration and approval to add to the Preliminary CIP later.

3.4. Anderson Dam Improvement Updates.

The Committee continued Item 3.4 to the January 14, 2019 Regular meeting, and resumed discussion of Item 3.5.

3.5. Capital Consultant Agreements and Amendments.

The Committee continued Item 1, Lenihan and Stevens Creek Dam Safety Evaluations to the January 14, 2019 agenda.

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Item 2, On-Call Surveying and Mapping Services: Mr. Nguyen reviewed the information on this item per the Committee Agenda Memo and explained that the purpose of agreement was to supplement land surveying and mapping services during peak periods where in-house resources cannot meet the demand for District projects. He noted that the previous agreement expired on December 31, and that staff was recommending the agreement to supplement services over the next three years. The Committee noted the information without formal action.

Chairperson Hsueh noted that Item 3 had been discussed following Item 3.1, Calero Dam Seismic Upgrade and Water Reliability Analysis. Mr. Hakes confirmed that the agreement was in effect through 2020, and that staff would bring an item to the Committee in February 2019.

3.6 2018 and 2019 Capital Improvement Committee Work Plans.

Chairperson Hsueh reviewed the information on this item per the Committee Agenda Memo, and the corresponding materials contained in Attachments 1 and 2. She confirmed the next Capital Improvement Program Committee meeting was scheduled for Monday, January 14, 2019 and 11:00 a.m.

4. **INFORMATION ITEMS:** None.

5. **ADJOURN:**

5.1. Clerk's Review and Clarification of Committee Requests and Recommendations.

Ms. Natalie Dominguez, Assistant Deputy Clerk II, confirmed there were no formal requests or recommendations captured for Board consideration. The following Committee requests were entered into the record:

In regard to Item 3.1:

The Committee requested that staff develop a more complete analysis of Calero's function and value, and alternatives to retrofit including associated costs to rehabilitate and improve Calero Dam vs. decommissioning the dam.

The Committee requested staff prepare a visual presentation to demonstrate how Calero Dam's rehabilitation could benefit the District's annual water supply and operational reliability, and the role Calero plays in storing and delivering water to the treatment plants, providing flood protection, benefits to the environmental and recreational use.

The Committee requested that staff's response to Director Kremen's email be provided to the Committee at their February 11, 2019 meeting, and then be provided to the full Board at a subsequent meeting.

In regard to Item 3.3.

The Committee requested staff identify issues and cost before adding the project to the Preliminary CIP, and directed staff to bring the proposed project to the full Board for consideration and approval to add to the Preliminary CIP later.

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In regard to Item 3.6:

The Committee requested staff pause the consultant's progress and revise the item to clarify the driving factors of the amendment, e.g., relocation of the historic Bailey Fellows House, for the Board.

- 5.2 Adjourn to Rescheduled Regular Meeting at 11:00 a.m. on January 14, 2019, in the Santa Clara Valley Water District Headquarters Board Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

Chairperson Hsueh adjourned the meeting at 12:00 p.m. to the Rescheduled Regular Meeting at 11:00 a.m., on January 14, 2019, in the Santa Clara Valley Water District Headquarters Board Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

Natalie F. Dominguez, CMC  
Assistant Deputy Clerk II

Approved:

01/03/19

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**File No.:** 19-0026

**Agenda Date:** 1/14/2019

**Item No.:** 5.1.

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## COMMITTEE AGENDA MEMORANDUM

### Capital Improvement Program Committee

**SUBJECT:**

Anderson Dam Improvements Update. (Continued from January 3, 2019)

**RECOMMENDATION:**

Receive and discuss information regarding updates of Anderson Dam Improvements.

**SUMMARY:**

The purpose of this agenda item is to present an update on the Anderson Dam Seismic Retrofit Project (Project) construction schedule.

### Project Background

District staff initiated the Project in 2012 to address seismic deficiencies at the dam and meet the Federal Energy Regulatory Commission's (FERC) and the California Department of Water Resources, Division of Safety of Dams' (DSOD) current standards. The Project's planning phase was completed in 2013, with 60% design work completed in April 2018. The 90% design continues along with preparation of the environmental documents and permitting efforts. If all necessary permits are secured in a timely matter, the Project's construction will begin as early as the summer of 2020.

On October 23, 2018, staff presented proposed construction schedules for Anderson Dam and Calero Dam seismic retrofit projects to the Board for information only. The proposed schedules had start of CDSRP and Anderson Dam Seismic Retrofit Projects in 2021 and 2022, respectively. These schedules were developed to address the water reliability issues discussed above, under the assumption that there was no other way to provide the necessary water supply reliability. Staff continues to evaluate raw water supply options during the construction of these projects and will provide a recommendation to the Board to properly prioritize the dam construction schedules as the permitting phases for both projects progress, and a more determinate timeline for the beginning of construction for each project is known.

### Recent Developments

Recent discussions during informal consultation with the National Marine Fisheries Service (NMFS) and Regional Water Quality Control Board (RWQCB), indicate that both regulatory agencies consider the scope of the permitted activities for the project to extend beyond construction, into post construction operation. District staff expects that the permitting phase of the project may be impacted if permitting activities include post construction operation. As a result, the project planned

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construction start date could extend beyond 2020 into 2021.

During the District's bi-annual trip to Washington D.C. the week of November 12<sup>th</sup>, 2018, District staff met with FERC (Federal Energy Regulatory Commission) to advise the Commission of this potentially protracted permitting effort and request assistance in the permitting process and working with NMFS. Although FERC agreed that the scope of NMFS regulatory action for the project coincides only with activities associated with the retrofit of the dam, and not to post construction operations, FERC is unable to provide regulatory relief with NMFS and RWQCB. As a result, District staff continues to analyze potential project impacts as the result of NMFS and RWQCB position to include post construction operation within permitting requirements. In addition, both FERC & DSOD have been briefed on the alternative construction schedules as it relates to water supply reliability and advancing Calero.

Due to potential permitting impacts, FERC has requested that an analysis be prepared to address the life safety impacts that potential alternative construction schedules will have compared to the currently projected March 2020 construction start date for Anderson Dam. Based on these analyses, FERC may deem it necessary to require additional actions and/or mandates on the current operation of Anderson Reservoir. These actions and/or mandates could include restricting the capacity of Anderson Reservoir.

### **District Staff Next Steps**

The Anderson Dam Seismic Retrofit Project team has been working with projects teams for both the Fisheries and Aquatic Habitat Collaborative Effort (FAHCE) and Mid-Coyote Flood Protection Projects to develop a global permitting approach for all three projects. To address the concerns brought forward by NMFS and RWQCB, key technical, management and executive management staff will be collaborating in a special strategic permitting meeting over December 6<sup>th</sup> and 7<sup>th</sup>. These two days will help to advance formal consultation and help to minimize project schedule impacts. Additionally, monthly coordination meeting between the project teams and internal and external legal counsels have been scheduled.

### **ATTACHMENTS:**

None

### **UNCLASSIFIED MANAGER:**

Christopher Hakes, 408-630-3796



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**File No.:** 19-0027

**Agenda Date:** 1/14/2019

**Item No.:** 5.2.

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## COMMITTEE AGENDA MEMORANDUM

### Capital Improvement Program Committee

**SUBJECT:**

Capital Consultant Agreements and Amendments. (Continued from January 3, 2019)

**RECOMMENDATION:**

Receive information on upcoming consultant agreements and/or amendments that staff will be recommending for Board approval and provide direction as needed.

**SUMMARY:**

At the March 28, 2017 meeting, the Board of Directors approved revising the CIP Committee's purpose to include monitoring implementation progress of key projects in the CIP. Consistent with this, the Committee has requested that staff provide regular updates on new consultant agreements and planned amendments to existing consultant agreements.

Staff anticipates recommending Board approval of four consultant agreements and amendments or budget adjustments within the next few months. A brief description of these recommended upcoming Board items are as follows:

1. **Lenihan and Stevens Creek Dam Safety Evaluations, Project No. 91084019.** The Santa Clara Valley Water District intends to award to GEI Consultants, Inc. an agreement with expiration on January 31, 2022 for Engineering Services in the amount of \$2,453,283 for the seismic and safety evaluation of Lenihan and Stevens Creek Dams.

Lenihan Dam was constructed as a rolled earthfill structure in 1952. Because of its proximity to highly developed areas, economic loss or loss of life could be excessive in the event of catastrophic failure. As a result, the dam is classified as a "large" dam with a "high" hazard potential.

An assessment of the dam following the 1989 Loma Prieta earthquake, indicated that the dam's crest had settled about 2-1/2 feet since the construction of the dam in 1952. The settlement appears to be a combination of long-term consolidation of the dam embankment and earthquake-induced displacements. The loss in the dam's freeboard resulting from the settlement of the dam's crest was restored in 1996.

The 120-foot tall Stevens Creek Dam was constructed as a rolled earthfill structure in 1935 above the cities of Mountain View, Sunnyvale, and Cupertino. Because of its proximity to highly developed areas, economic loss or loss of life could be excessive in the event of catastrophic failure. As a result, the dam is classified as a “large” dam with a “high” hazard potential.

In April 2017, the Governor of California ordered detailed evaluations of large spillway structures at all high-hazard dams, including at Lenihan and Stevens Creek dams. This Project will include detailed spillway condition assessments, updated Probable Maximum Flood (PMF) studies, Potential Failure Mode Analysis (PFMA), and a Supporting Technical Information Document (STID) for the two dams included in this Project. The District believes an Independent Dam Safety Review (IDSR) will help identify other critical needs and deficiencies relevant to the two dams. The IDSR will include the PFMA workshop and inspection report, and updates to the STID.

Under this Agreement with the District, GEI Consultants will collect preliminary data, conduct comprehensive spillway condition assessments and PMF studies per HMR 58/59 to address the adequacy of the spillway and freeboard capacity. The Consultant will also conduct a geotechnical/geologic field investigation to develop feasible spillway improvement alternatives if necessary; conduct an IDSR, which includes the PFMA Workshop, and IDSR reports with recommendations to address identified deficiencies; prepare a STID; inspect dam outlets; and perform supplemental engineering services as follow-up to recommendations in the IDSR reports.

**2. On-Call Surveying and Mapping Services (Multiple project numbers).**

Staff is planning to recommend the Board to award an agreement to R.E.Y. Engineers, Inc. for a term of three (3) years in the amount of \$1.5 million to supplement the Land Surveying and Mapping Unit (LSMU) efforts by performing survey work.

In the last three years, the District’s Land Surveying and Mapping Unit (LSMU) has administered an on-call agreement to assist in completing work in excess of staff capacity. The current on-call agreement will expire on December 10, 2018. The not-to-exceed fee of the current on-call agreement is \$1,500,000 and \$1,334,773 has been expended. The new on-call agreement will allow supplemental resources to ensure land surveying and mapping services are provided timely, during high demand periods, to support District operations and capital improvement projects.

The scope of work for this agreement includes: preliminary and design level surveying for topographic field surveys, expansion of project control, preparation of photogrammetric base maps, LiDAR surveys, bathymetric surveys, 3D scanning, the establishment of control networks for design, design-level data surveys, and construction support topographic land surveying. The scope of work will also include cadastral surveys, performing cadastral recovery and field ties, providing right of way services, establishing monuments for the right of way, and preparing record of survey.

3. **Calero Dam Seismic Retrofit - Amendment No 4 to Agreement No A3902G with HDR Engineering, Inc. for Design Consultant Services Project No 91874004.** Calero Dam and Reservoir are currently subject to operational restrictions of 54% of the full reservoir capacity, as agreed to by the District and the California Division of Safety of Dams (DSOD), due to seismic stability concerns with the dam and concerns surrounding Fellows Dike, located at the upstream end of the reservoir. The full reservoir capacity will be restored upon completion of the project.

Agreement A3902G with HDR Engineering, Inc. (Consultant) is for Design of the Project which is currently at 60%, and includes scope to complete design documentation and prepare the construction plans, specifications, and cost estimates for the Project.

Amendment No. 4 to this Agreement will increase the not-to-exceed fee by \$975,000, bringing the Agreement's total not-no-exceed fee to \$10,360,209. The additional fee is required to perform additional geotechnical investigations, prepare additional design documentation, including, but not limited to, relocation of the historic Bailey Fellows House located near Fellows Dike, and increase available funds for Supplemental Services.

**ATTACHMENTS:**

None

**UNCLASSIFIED MANAGER:**

Chris Hakes, 408-630-3796

Ngoc Nguyen, 408-630-2632

Katherine Oven, 408-630-3126

Ashu Tikekar, 408-630-2424

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**File No.:** 18-1138

**Agenda Date:** 1/14/2019

**Item No.:** 5.3.

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## COMMITTEE AGENDA MEMORANDUM

### Capital Improvement Program Committee

**SUBJECT:**

Design-Build Project Delivery Method for Capital Projects.

**RECOMMENDATION:**

Receive information from staff regarding the design-build project delivery method for public works projects.

**SUMMARY:**

The purpose of this agenda item is for the Committee to receive a presentation regarding the design-build (DB) delivery method for capital public works projects.

The district has had statutory authority to implement the design build method since 2002 but state law limited the types of facilities that could be built using this approach, specifically prohibiting “water resources facilities and infrastructure” projects. In 2017, the district pursued a change in state law to broaden the types of eligible projects and a new code was enacted effective January 1, 2018, which will only remain in effect until January 1, 2025, unless extended prior to that date. It allows use of this method for flood protection improvements, habitat restorations or enhancements, groundwater recharge or storage facilities, water treatment facilities, and the retrofit, repair, or expansion of existing surface water storage facilities.

Design-build (DB) may provide certain benefits over the traditional District practice of contracting by design-bid-build for capital public works projects. The fundamental difference is that the District would award only one contract to a design-build entity for a project’s design and construction, with a single point of responsibility and accountability. The designer and builder work as a team to prepare the final design plans and construct the project. This team approach requires collaborative problem-solving and innovation, and can result in higher construction quality, fewer change orders, and cost and time savings.

Now that the district has specific statutory authority to implement this method, staff will evaluate projects that may benefit from design-build and make recommendations regarding its use.

**ATTACHMENTS:**

Attachment 1: Design-Build Presentation

**UNCLASSIFIED MANAGER:**

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**File No.:** 18-1138

**Agenda Date:** 1/14/2019  
**Item No.:** 5.3.

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Katherine Oven, 408-630-3126

# Design-Build Project Delivery Method Overview

CIP Committee Meeting  
January 14, 2019



# Presentation Outline

1. Design-Build (DB) Definition and Background
2. Contracting Relationship: Design-Bid-Build (DBB) vs. DB
3. Key Differences: DBB vs. DB
4. Drivers for using DB
5. Proposed Projects for DB Delivery Method
6. Project Delivery Process Chart



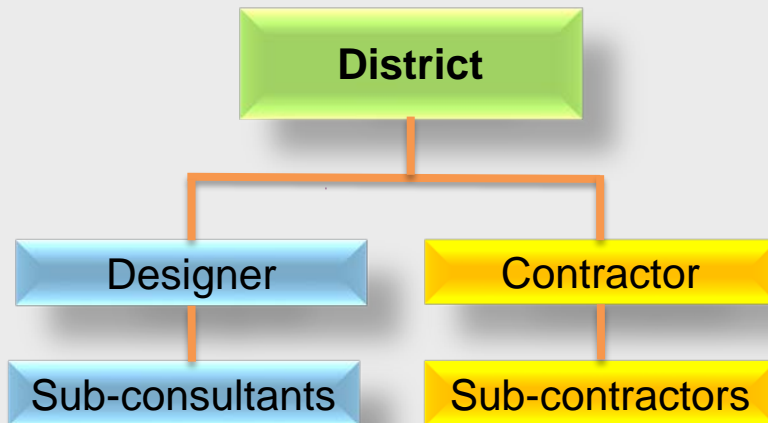
# Design-Build Definition and Background

- **Design–Build**
  - The design and construction services are contracted to a single entity
- **Benefits**
  - One contract to cover both design and construction
  - Single point of responsibility and accountability
- **District Authorization**
  - Public Contract Code section 21162.5

# Contracting Relationship: DBB vs. DB

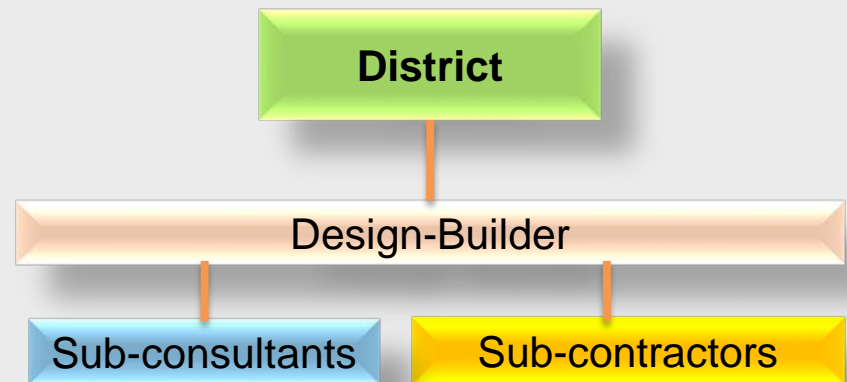
## Design-Bid-Build

- Three prime players:
  - District, Designer, Contractor
- Two separate contracts
  - District with Designer
  - District with Contractor



## Design-Build

- Two prime players:
  - District, Design-Builder
- One contract
  - District with Design-Builder



# Key Differences: DBB vs. DB

Procurement, Delivery and Contract

Topic	Design-Bid-Build	Design-Build
Number of contracts	1) Designer 2) Contractor	One contract <i>(single point accountability)</i>
Project award	Low bid	Best Value
Contract	Prescriptive	Performance-based
Work phasing	Design must be fully complete before construction begins	Design and construction will overlap
Price Certainty	Lowest bid plus change orders	Guaranteed Maximum Price plus change orders

# Drivers for Using Design-Build

- Single-point accountability
- Speed of delivery (potential time and cost savings)
- Builder is involved in design process
- Designer-Builder cooperation can result in better quality
- Best value
- Potential for innovation
- Flexibility
- Lower costs (based on industry-wide experience)

# Proposed Projects for DB Delivery Method

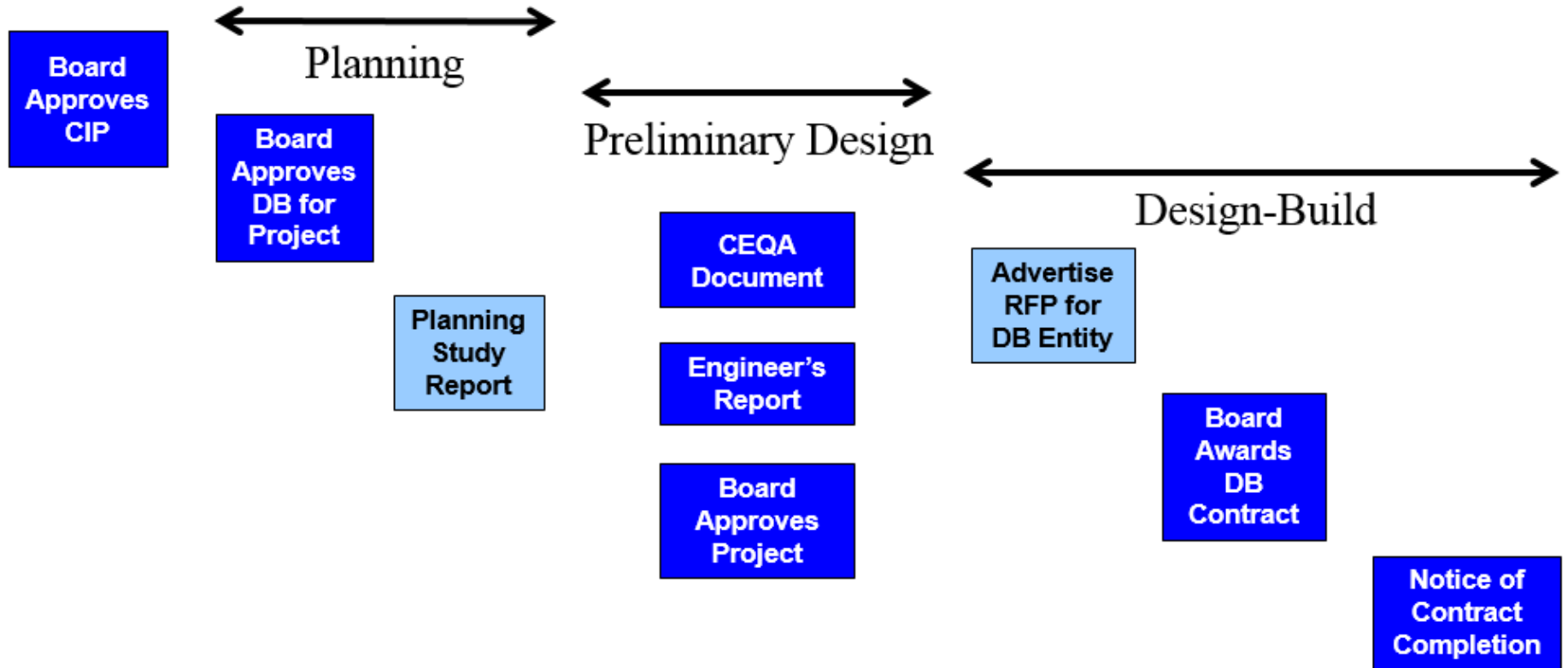
## Staff Recommends using DB for :

1. Coyote Pumping Plant Adjustable Speed Drive Replacement (\$17M)
2. Vasona Pumping Plant Upgrades (\$25M)

## Why?

- Implement legislative authority the district initiated
- Gain experience beginning with smaller projects
- Important for staff development
- Potential for substantial time and cost savings

# Project Delivery Process Chart - DB



 Board Action Required

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**File No.:** 18-1139

**Agenda Date:** 1/14/2019

**Item No.:** 5.4.

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## COMMITTEE AGENDA MEMORANDUM

### Capital Improvement Program Committee

**SUBJECT:**

Capital Projects Status Updates - Construction

**RECOMMENDATION:**

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

**SUMMARY:**

The CIP Committee's 2018 Workplan includes monitoring of capital projects during all phases of development. Anticipating that the Committee will continue this practice in 2019, staff will continue to prepare a list of active projects to the Committee each month 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 CIP Committee for review one phase at a time. Projects currently under construction are being presented this month.

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

**ATTACHMENTS:**

Attachment 1: Capital Project Monitoring Report - Construction

**UNCLASSIFIED MANAGER:**

Katherine Oven, 408-630-3126

Ngoc Nguyen, 408-630-2632

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## Capital Project Monitoring Report - January 2019

### Construction Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues
<u>Water Utility</u>			
1	91234011	Coyote Warehouse	Contract awarded December 11, 2018.
2	26564001	Main and Madrone Pipelines Restoration	Field construction completion - March 2019.
3	93294057	RWTP Reliability Improvement	Phase 2 (of 5) completion is not yet defined.
<u>Flood Protection</u>			
4	26154002	Upper Guadalupe River Reach 6	A project to install gravel for fish habitat in a portion of Reach 6 is anticipated to begin and complete in summer, 2019.
5	26154003	Upper Guadalupe River Reach 7	Design and construction by USACE on hold due to lack of federal funding. District staff is evaluating options for implementation with and without federal participation.
6	26244001	Permanente Creek, SF Bay to Foothill Expressway	Construction of Channel work on target for January, 2019 Completion; Construction of McKelvey Park extended to July 2019; Due to the presence of Native American remains, construction at Rancho San Antonio has been extended to December 2019. Consultation with SHPO, USACE, County Parks, and the Ohlone Tribe's most likely descendant is ongoing regarding the treatment plan. Expect to complete consultation and receive permit to resume construction in March 2019. Need additional funds for construction management and staff support of project construction.
7	26284002	San Francisquito Creek - Construction, SF Bay to Middlefield Rd.	San Francisquito Creek Bay to Hwy 101 Construction was completed in December 2018; A separate contract for plant installation and establishment to be advertised early 2019.
8	26174041s	Berryessa Ck, Calaveras-I-680	COE- civil construction complete June 2018, planting fall 2018 - USACE is addressing punch list items. Montague Bridge (SC Co.) substantially complete June 2018.
9	40174004	Berryessa Creek, Lwr Penitencia Ck to Calaveras Blvd, Phase 1	Civil construction complete, plant establishment to June 2021.
10	40174005	Berryessa Creek, Lwr Penitencia Ck to Calaveras Blvd, Phase 2	Construction to be complete by March 2019; however, the contractor will be performing some levee repair work, which is estimated to be completed by December 2019.
11	40264008s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	Civil construction complete, plant establishment to 2020.
12	40264011	Cunningham Flood Detention Certification	On target to complete civil construction by June 2019.
13	62062003	Stevens Creek Bank and Trail Repair (WARP)	Contract awarded June 2018; civil work was completed October 2018. Plant establishment is scheduled to be completed in 2024.
14	62084001	Matadero Creek Sediment Removal & Erosion Repair & San Tomas Aquino Creek Erosion Repair Project (WARP)	Contract awarded June 2018 and work was completed in November 2018.
15	62084001	Coyote Creek Levee Rodent Damage Repair Downstream of HWY 237 (WARP)	Contract awarded May 2018 and work was completed in October 2018.
16	62084001	Coyote Creek Levee Rodent Damage Repair Upstream of HWY 237 (WARP)	Contract awarded May 2018 and work was completed in October 2018.
17	62084001	Uvas Creek Levee Rehabilitation Phase 1 (WARP)	Contract awarded July 2018. Work is on schedule for completion in May 2019.

## Capital Project Monitoring Report - January 2019

### Construction Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues
<u>Water Resources Stewardship</u>			
		No projects at the moment	
<u>Buildings &amp; IT</u>			
18	73274011	E-Discovery Management System	Project implementation underway.
19	73274007	Vena Upgrade	Completed; closeout by June 2019.

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**File No.:** 18-0750

**Agenda Date:** 1/14/2019

**Item No.:** 5.5.

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## COMMITTEE AGENDA MEMORANDUM

### Capital Improvement Program Committee

**SUBJECT:**

2019 Capital Improvement Committee Work Plan.

**RECOMMENDATION:**

Review the 2019 Capital Improvement Program Committee Work Plan and make revisions 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.

The 2019 Capital Improvement Program Committee 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.

**ATTACHMENTS:**

Attachment 1: 2019 CIP Committee Work Plan

**UNCLASSIFIED MANAGER:**

Michele King, 408-2630-2711

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# CIP Committee 2019 Workplan

	<u>Jan 3</u>	<u>Jan 14</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
<b>CIP Implementation</b>													
Public Private Partnership (P3) Delivery for projects													
Safe, Clean Water Projects Implementation				X									
Presentation on Design-Build		X											
Project Labor Agreement			X	X	X	X							
Large Construction Projects - Lessons Learned													
Calero Dam Seismic Upgrade and Water Reliability Analysis	X												
Anderson Dam Improvements Update	X	X											
<b>Capital Project Monitoring</b>													
Construction		X			X			X			X		
Design			X			X			X			X	
Planning/Feasibility	X			X			X			X			X
Upcoming Consultant Agreements and Amendments	X	X											
<b>CIP Development</b>													
Project Ranking Criteria											X	X	X
Preliminary CIP	X											X	X

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