



**LOS VAQUEROS RESERVOIR JOINT POWERS AUTHORITY
OPERATIONS AND ENGINEERING COMMITTEE
AGENDA**

Regular Meeting
December 15, 2022 – 10:00 a.m.

SPECIAL NOTICE OF TELECONFERENCE ACCESSIBILITY

Pursuant to the provisions of Government Code Section 54953(e), as amended by Assembly Bill 361, any Committee Member and any member of the public who desires to participate in the open session items of this meeting may do so by accessing the Zoom link below without otherwise complying with the Brown Act's teleconference requirements.

Please click the link below to join the Meeting/Webinar:

<https://lagerlof.zoom.us/j/83227564437?pwd=SnBST0lHQXdkbm8rNEp0ODB0NjN0dz09>

Webinar ID: 832 2756 4437

Passcode: 567930

Or One tap mobile:

US: +16699006833,,83227564437#,,,*567930#

or Telephone: +1-669-900-6833

Any member of the public wishing to make any comments to the Committee may do so by accessing the above-referenced link where they may select the option to join via webcam or teleconference. Members of the public may also submit written comments to the Interim Clerk by 4:00 p.m. on the day prior to the meeting for the Interim Clerk to read into the record (subject to three-minute limitation). The meeting Chair will acknowledge such individual(s) at the appropriate time in the meeting prior to making their comment. Members of the public will be disconnected from the meeting prior to any Closed Session, if applicable.

NOTE: To comply with the Americans with Disabilities Act, if you need special assistance to participate in this Committee meeting, please contact the Authority's Interim Clerk at rperea@lagerlof.com by 4:00 p.m. on December 14, 2022 to inform the Authority of your needs and to determine if accommodation is feasible. Each item on the Agenda shall be deemed to include any appropriate motion, resolution, or ordinance, to take action on any item. Materials related to items on this Agenda are available for public review at: www.losvaquerosjpa.com/board-meetings.

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL OF COMMITTEE MEMBERS

Jose Gutierrez – Chair, San Luis & Delta-Mendota Water Authority
Jonathan Wunderlich – Alameda County Water District
Antonio Martinez – Contra Costa Water District
Steve Ritchie – San Francisco Public Utilities Commission

PUBLIC COMMENT ON NON-AGENDA ITEMS

Any member of the public wishing to address the Operations and Engineering Committee regarding items not on the Agenda should do so at this time. The Committee welcomes your comments and requests that speakers present their remarks within established time limits and on issues that directly affect the Authority or are within the jurisdiction of the Authority.

DISCUSSION ITEMS

- 1.1 November 17, 2022 Operations and Engineering Committee Meeting Summary**
- 1.2 Review of Pumping Plant #1 Physical Model Results**

FUTURE AGENDA ITEMS

ADJOURNMENT

ITEM 1.1: NOVEMBER 17, 2022 OPERATIONS AND ENGINEERING COMMITTEE MEETING SUMMARY

RESPONSIBLE/LEAD STAFF MEMBER:

James Ciampa, General Counsel

DISCUSSION:

Attached for the Committee's information is the summary prepared for the November 17, 2022 Operations and Engineering Committee meeting.

ALTERNATIVES:

Any suggested revisions to the attached summary will be considered.

FISCAL ANALYSIS:

Not applicable.

ENVIRONMENTAL REQUIREMENTS:

Not applicable.

EXHIBITS/ATTACHMENTS:

Summary from November 17, 2022 Operations and Engineering Committee meeting



SUMMARY OF REGULAR MEETING OF OPERATIONS AND ENGINEERING COMMITTEE

November 17, 2022 – 10:00 a.m.

All Chair Jose Gutierrez and Committee Member Antonio Martinez were present. Committee members Steve Ritchie and Jonathan Wunderlich were absent.

1.1 October 20, 2022 Operations and Engineering Committee Meeting Summary.
The summary from the October 20, 2022 Operations and Engineering Committee meeting was presented and was accepted without change.

1.2 Design Update of Transfer-Bethany Pipeline Turn-In.

Chris Hentz, CCWD LVE Engineering Manager, introduced Bryan Perkins, CCWD’s Senior Engineer, who provided the Committee with background information and an update of the Transfer-Bethany Pipeline Turn-In Design. Mr. Perkins explained the Transfer-Bethany Pipeline will convey water from CCWD’s transfer facility to the California Aqueduct. A Turn-In Agreement is needed with the Department of Water Resources (“DWR”) to construct this facility on DWR’s property and DWR must review and approve the Turn-In Design prior to executing the Turn-In Agreement. DRW is currently reviewing the 90% design for the Turn-In. The Turn-In Agreement is anticipated to be between the Authority and DWR and will identify roles and responsibilities for construction, long-term operations and maintenance, flow metering costs, and control of facilities, will identify rights of access and facility ownership and will reference water quality monitoring requirements.

The alignment of the Transfer-Bethany Pipeline was also discussed. The California Department of Fish and Wildlife has recently requested further evaluation of potential alignments that avoid conserved lands and CCWD has undertaken significant effort over the last two months in working on the alignment. Final alignment selection is anticipated in early 2023.

There also will be a future Operations and Maintenance Agreement between the Authority and CCWD that will be necessary once the facility is built, although that may change if a different Authority member agency undertakes the maintenance responsibilities.

Chair Gutierrez asked for information about the acquisition of land for the Transfer-Bethany Pipeline. Chris Hentz advised that CCWD is developing an analysis and recommendation on the types of property rights to be used for the facility, either fee title

or easement rights. The Authority's Executive Director will then review the recommendations and decide on which and when to bring those recommendations to the Authority's Board of Directors.

1.3 Review of LVE Labor Stabilization Program

Executive Director Taryn Ravazzini introduced Luis Llamas, principal engineer at CCWD, who provided the Committee with an overview of the Los Vaqueros Labor Stabilization Program and the use of Project Labor Agreements ("PLA"). Project Labor Agreements can be used to provide labor stability by reducing the potential for lack of skilled labor or work stoppages by establishing standard working conditions, dispute resolution mechanisms and access to established craft worker referral systems. CCWD is currently negotiating the PLA with Contra Costa Building & Construction Trades Council and their affiliated unions. CCWD will include the PLA in bid documents. The PLA must be signed by successful bidders and the terms will be binding for the duration of the construction contract.

Chair Gutierrez asked if the PLA would require general contractors hire only represented or union labor or could they hire non-union employees as long as they comply with prevailing wage and submit wage sheets to Department of Industrial Relations. Mr. Llamas replied that contractors will agree to pull all craft workers from the local union halls. However, the general contractors are not required to be union shops and a non-union contractor may be able to use unionized craft workers.

1.4 Discussion of Future Committee Meeting Procedures and Attendance

Executive Director Taryn Ravazzini said the Authority's Board of Directors determined at its November 9 meeting that the Board will begin meeting in-person in February 2023, but that the committees may continue to meet remotely, if they choose to, and will need to comply with the Brown Act agenda, posting and public access requirements. Executive Director Ravazzini and the Authority are working to compile a set of guidelines to help members with the process they will need to go through in order to continue with remote meetings.

Committee Member Martinez asked if travel costs to attend meetings are reimbursable. General Counsel Ciampa responded that the Authority does not have direct compensation or reimbursement policies in place for Directors, Alternate Directors or Committee Members at this time. Mr. Ciampa stated he thought that Authority meeting compensation and expenses were being paid Member Agencies. Chair Gutierrez confirmed that the Authority's JPA Agreement provides that is no compensation is to be paid by the Authority and those costs are borne by each Member Agency.

Chair Gutierrez favors Zoom meetings as it is efficient and he has no problem posting notices at his office where members of the public can join him in his office or in the boardroom.

Chair Gutierrez asked if the Committee meetings are considered "regular" meetings that require at least 72-hours' prior notice. General Counsel Ciampa answered the Committee meetings are considered to be regular meetings requiring 72-hour notice.

FUTURE AGENDA ITEMS:

- Presentation on Pumping Plant No. 1, physical model results, in December 2022;
- Possible joint Finance and O&E meeting early in the first quarter of 2023 to form a work group or committee for design and construction principles and the concept of bridge funding; and
- Transfer Pipeline inspection results are expected in the latter part of first quarter of 2023 which will need to be processed and reviewed by the consultants and then prepared for presentation.

The December Committee meeting is scheduled for 10:00 a.m. on December 15, 2022. The meeting was adjourned at 11:40 a.m.

James D. Ciampa

James D. Ciampa
General Counsel

ITEM 1.2: REVIEW OF PUMPING PLANT #1 PHYSICAL MODEL RESULTS

RESPONSIBLE/LEAD STAFF MEMBER:

Taryn Ravazzini, Executive Director

DISCUSSION:

CCWD staff will provide the Committee with a review of the results from the recently completed physical modeling of Pumping Plant #1.

ALTERNATIVES:

For information only

FISCAL ANALYSIS:

Not applicable

ENVIRONMENTAL REQUIREMENTS:


Not applicable

EXHIBITS/ATTACHMENTS:

Slide deck regarding Pumping Plant #1 Physical Model Results

The logo for the Los Vaqueros Reservoir Expansion Project. It features the text "LOS VAQUEROS" in blue, "RESERVOIR EXPANSION" in green, and "PROJECT" in blue. To the right of the text is a stylized graphic of a reservoir dam or structure, composed of several horizontal bars of varying lengths, colored in shades of blue and green.

**LOS
VAQUEROS
RESERVOIR
EXPANSION
PROJECT**

The background of the slide is a photograph of a large reservoir surrounded by green hills. In the distance, several wind turbines are visible on the hills. The sky is clear and blue.

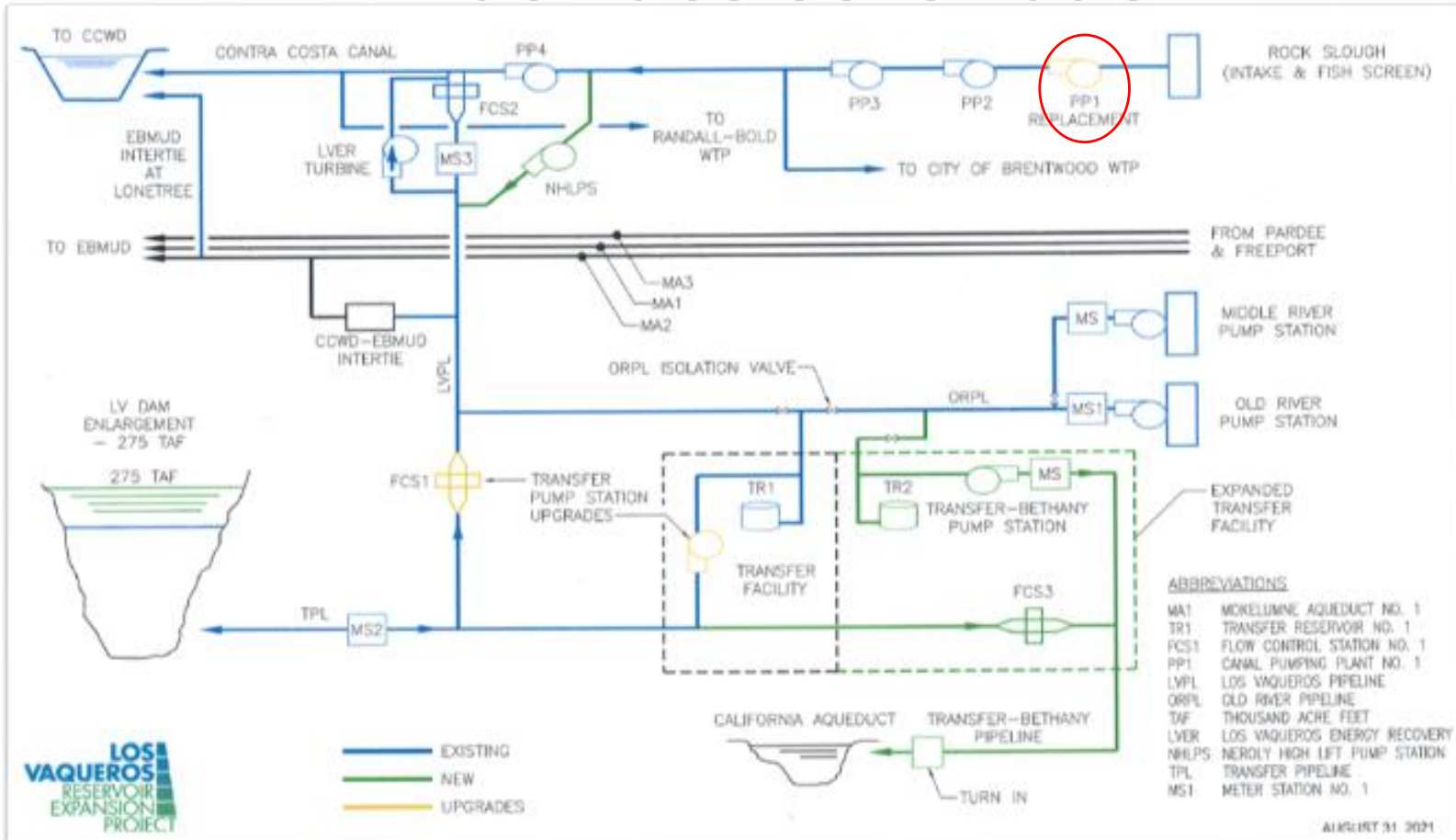
**LVR Joint Powers Authority
Operations & Engineering Committee
Agenda Item 1.2 Update on Pumping Plant No. 1
Replacement project**

December 15, 2022

Background

- Pumping Plant No.1 (PP1) capacity is currently limited to approximately 100 cubic feet per second (cfs)
- Restoring PP1 capacity to 350 cfs is needed
 - Meet CCWD demands through Contra Costa Canal during the LV Reservoir outage for construction
 - Deliver up to 300 cfs to partners through the Neroly High Lift Pump Station
- PP1 will be the first facility constructed as part of the LVE Project

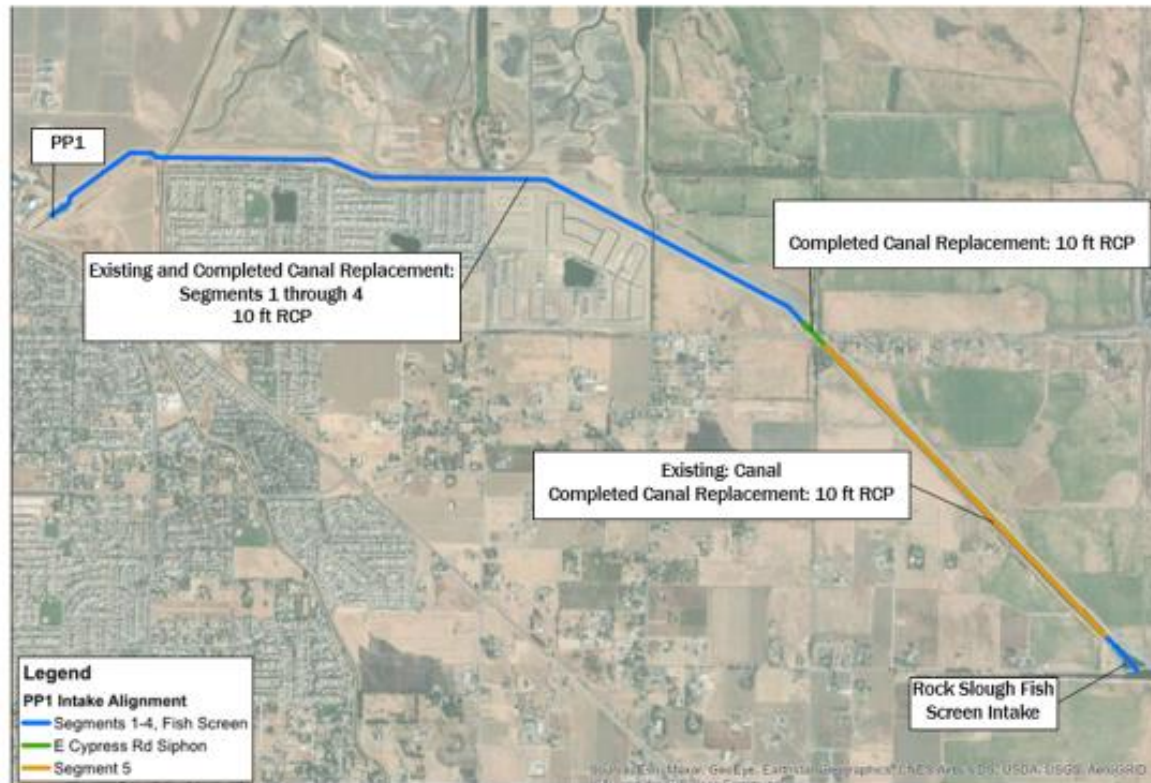
LVE Facilities Schematic



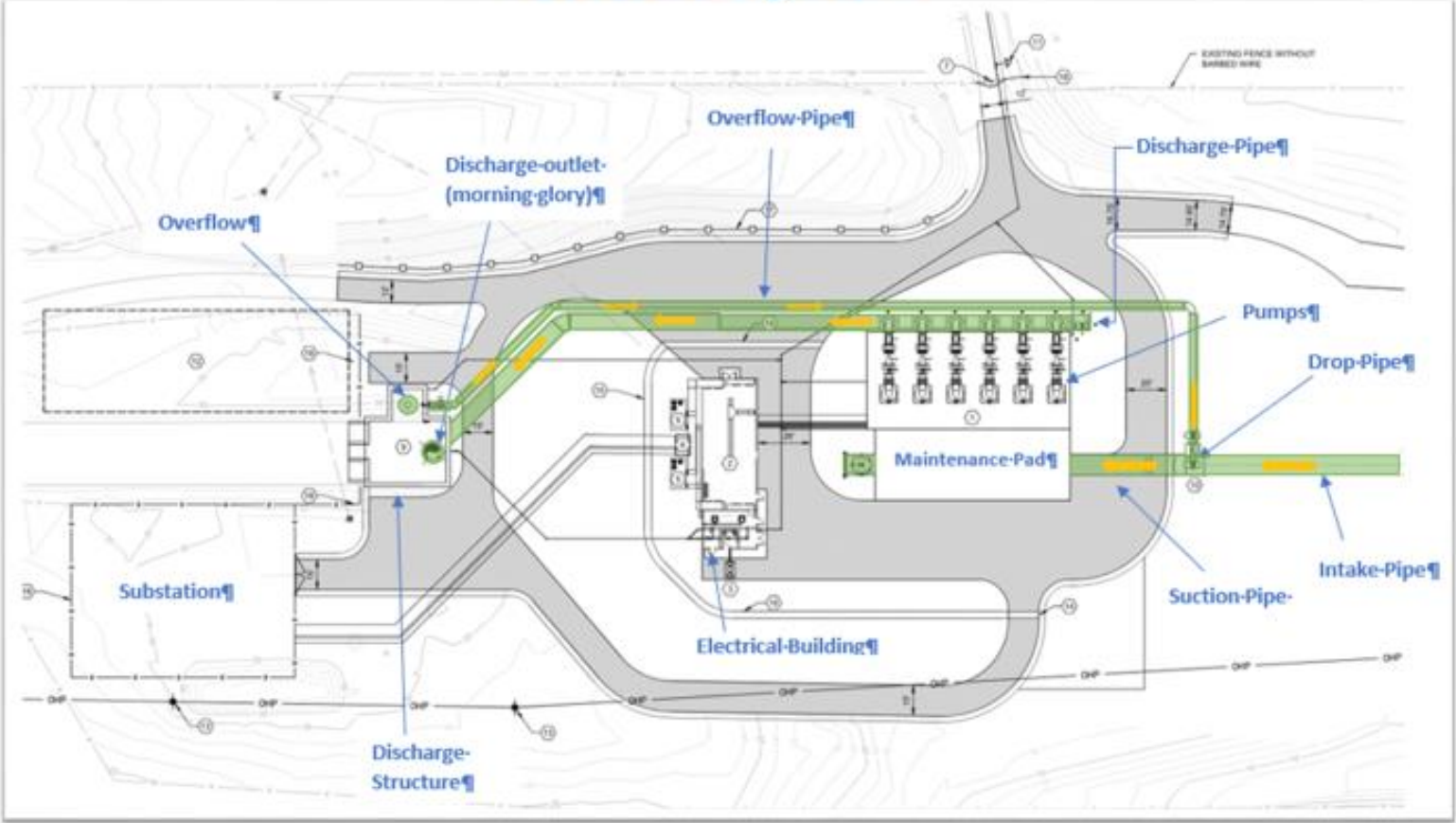
PP1 Design Considerations

- Water is diverted at Rock Slough, and water levels fluctuate with the tides
- PP1 is located approximately 4 miles downstream of the Rock Slough Fish Screen
- Located on land owned by the United States Bureau of Reclamation (Reclamation)
- Requires demolition of the existing pumping plant building and wet well
- A vegetation screen will replace the existing screens and protect the pumps from aquatic vegetation

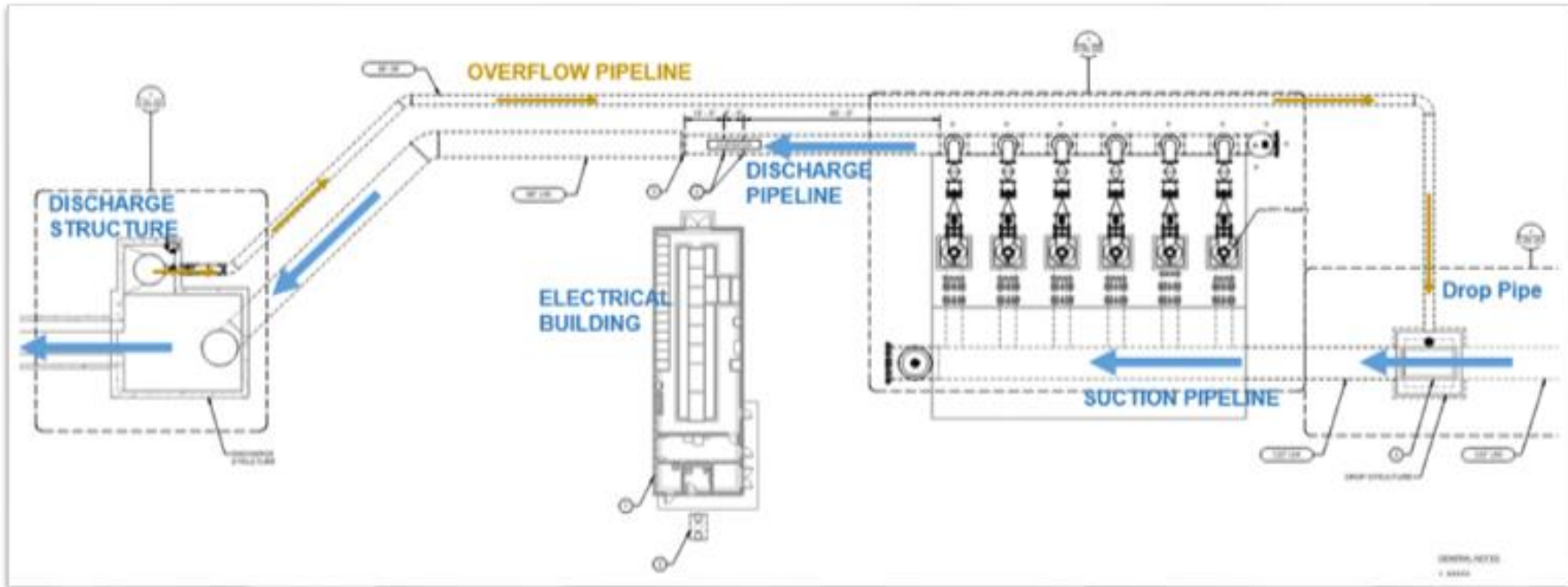
PP1 Design Considerations



Site Layout

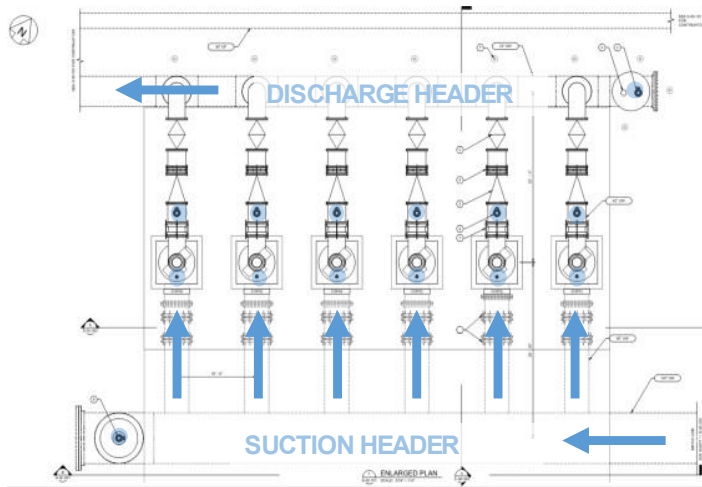


Site Plan – Major Features





Pumps



- 5 duty Pumps, 1 standby
- 35 - 350 cfs capacity
- Outdoor, vertical turbine pumps
- 6 VFDs
- Motor Size = 500HP



Physical Model Objectives

- Proven method to identify flow instabilities
- Test modifications needed to prevent cavitation or flow instabilities that reduce performance and pump life
- Reduce the risk of high-cost issues if found late in design or after construction



Physical Model Update

- Completed initial testing
- Confirmed intake hydraulics
- Tested under a wide variety of scenarios to validate performance
- Peer reviewed by Stantec



Vegetation Screen Replacement



- Protects pumps from vegetative growth in the canal
- Replaces existing pumping plant screening facility
- Located near Rock Slough to reduce costs
- Reviewing Vegetation Screen equipment options

Design Coordination Agreements



- Western Area Power Administration (WAPA) owns the substation and transmission facilities
 - Review and approve design of new substation
 - Construct WAPA line relocation
- Diablo Water District to provide utility water
- Iron House Sanitation District
 - Disposal of construction groundwater on adjacent ISD-owned agricultural fields



Design Next Steps



Item	Date
60% design review	Ongoing
Technical Review	January 2023
90% PP1 design	February 2023
100% Design	June 2023
Construction Award	Fall 2023*

* Bidding and award anticipated to follow service agreements and CWC full funding award

QUESTIONS?

