



# Vendor Open House

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## *Capital Improvement Program*

December 5, 2018



San José-  
Santa Clara  
Regional  
Wastewater  
Facility

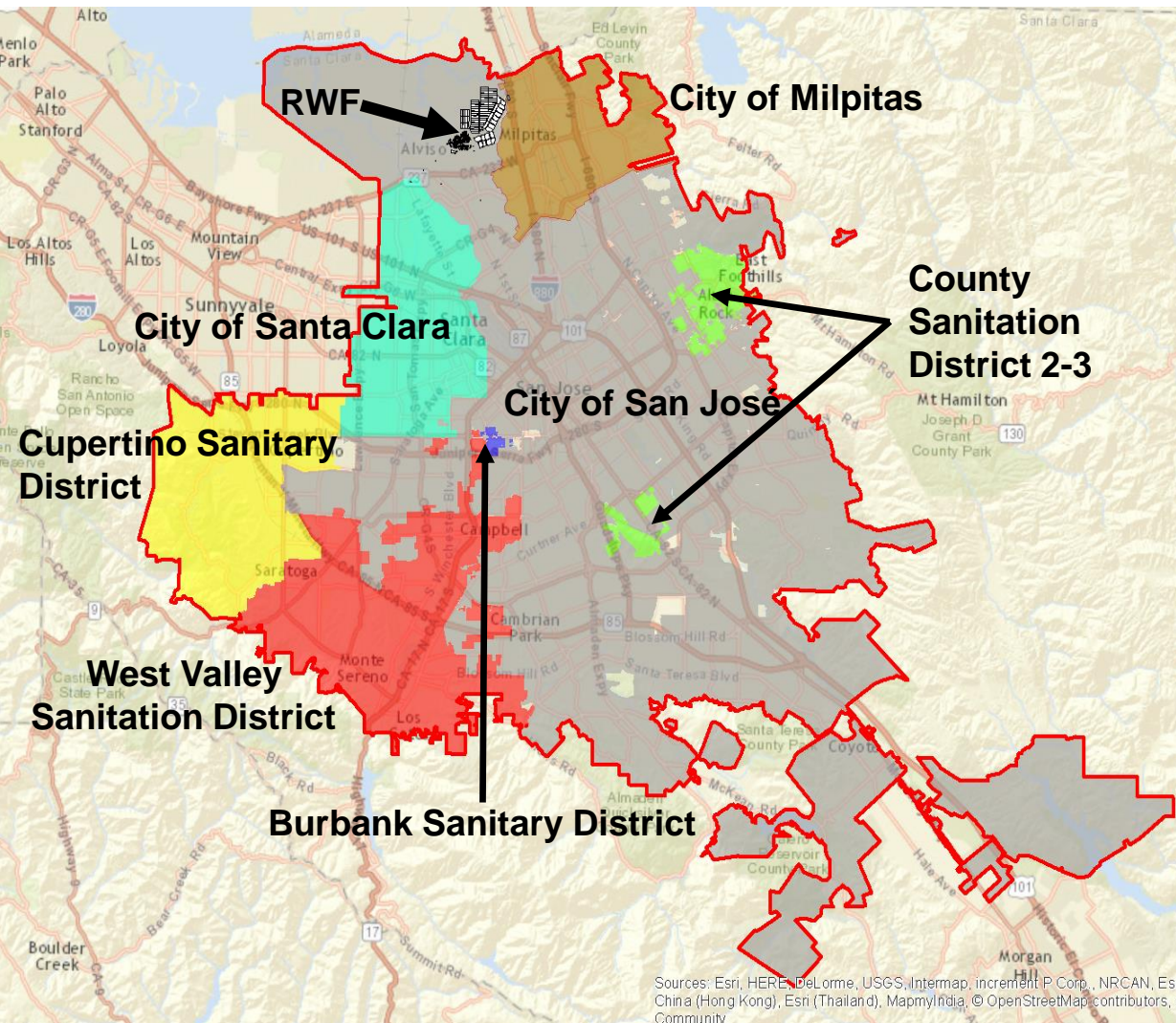
# Agenda

- RWF Overview
- CIP Overview
- Project Highlights by Package
- Procurement
- Questions & Answers



# RWF Overview

# Regional Wastewater Facility



- Largest advanced wastewater facility on the West Coast
  - 167 MGD capacity
  - 2,600 acre site
- Serves
  - 1.4 million people
  - 17,000 businesses
  - 8 cities & County areas
- Continually operating 24/7 since 1956

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri, China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and Community

# Historical Improvements

1956



**Primary  
Treatment**

1964



**Secondary  
Treatment**

1979



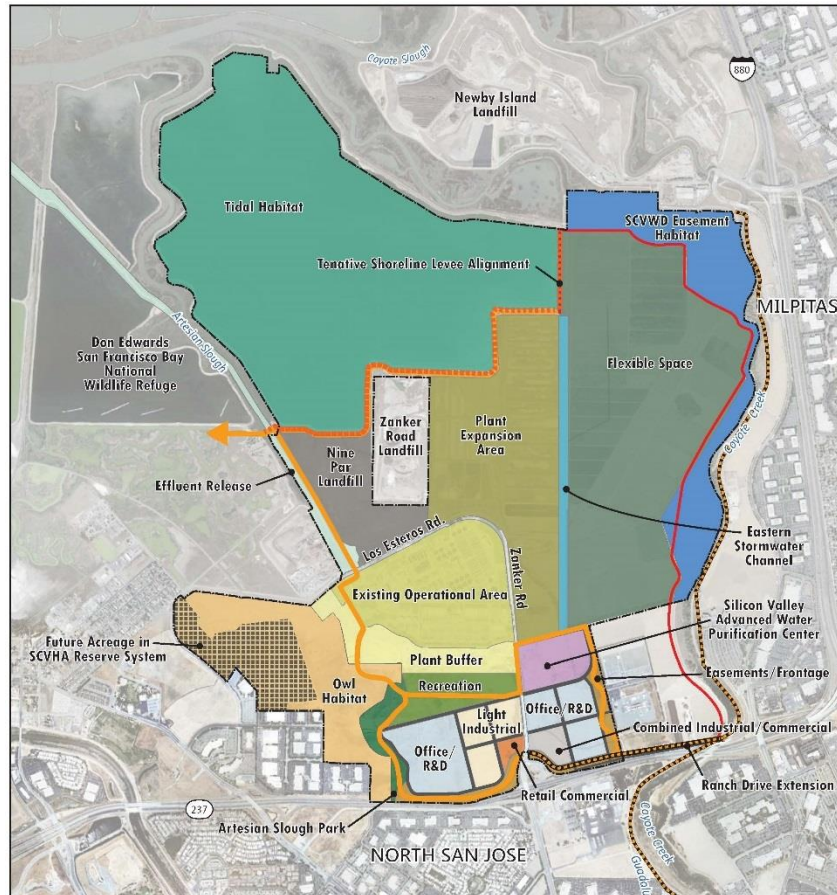
**Tertiary /  
Advanced  
Treatment**

1997



**Biological  
Nutrient  
Removal /  
South Bay  
Water  
Recycling**

# Recent Accomplishments



Legend

- Project Boundary
- Existing Levee
- Tentative Shoreline Levee
- Existing Trail
- Proposed Trail
- Proposed Boardwalk Trail

Updated June 9, 2016

- November 2013: Plant Master Plan and Environmental Impact Report adopted
- December 2014: Odor Strategy adopted
- March 2015: Project Delivery and Procurement Strategy adopted
- June 2015: Biosolids Transition Strategy adopted
- June 2015: CIP Funding Strategy adopted
- June 2017: Owner-Controlled Insurance Program approved
- 13 programmatic studies and 6 projects completed
- Established a process shutdown request (PSR) process

# ESD

Mission Statement

Delivering world-class utility services and programs to improve our health, environment, and economy.

# CIP

Mission

Rebuild and revitalize the Regional Wastewater Facility and deliver the CIP on time and within budget.

# CIP

Vision

To deliver a world class facility that successfully serves the region.

## CIP Goals:

**1** Build capital solutions that are safe, reliable, innovative, and cost effective, to ensure regulatory compliance and predictable performance and capacity.

**2** Enhance the quality of life for our community, and protect and improve the environment.

**3** Retain and recruit talented employees by providing a safe, healthy, and rewarding place to work.

**4** Be a leader in environmental stewardship through energy efficiency, resource recovery, and reduced environmental impact.

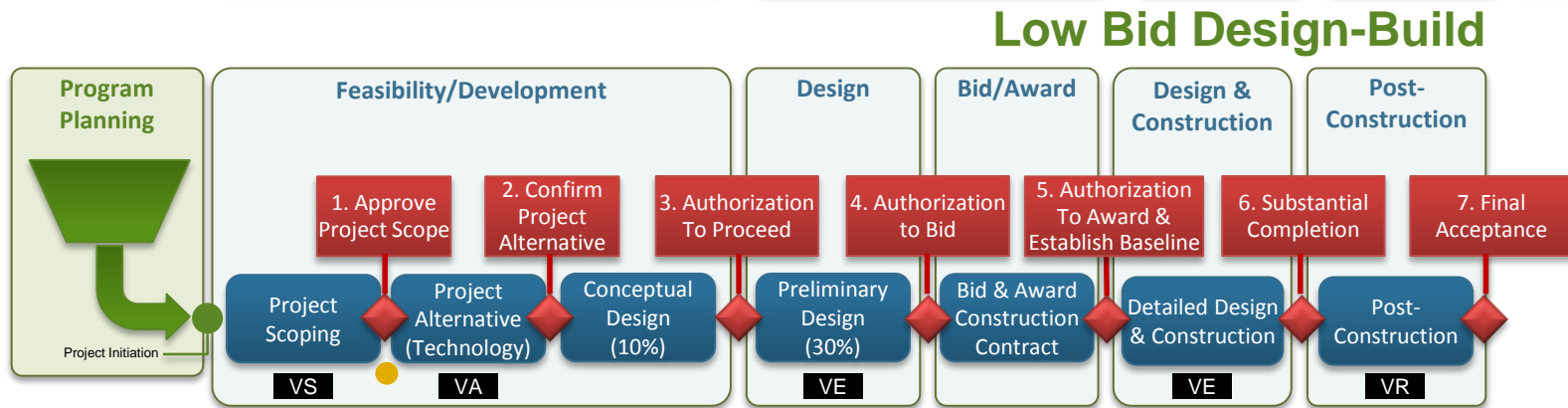
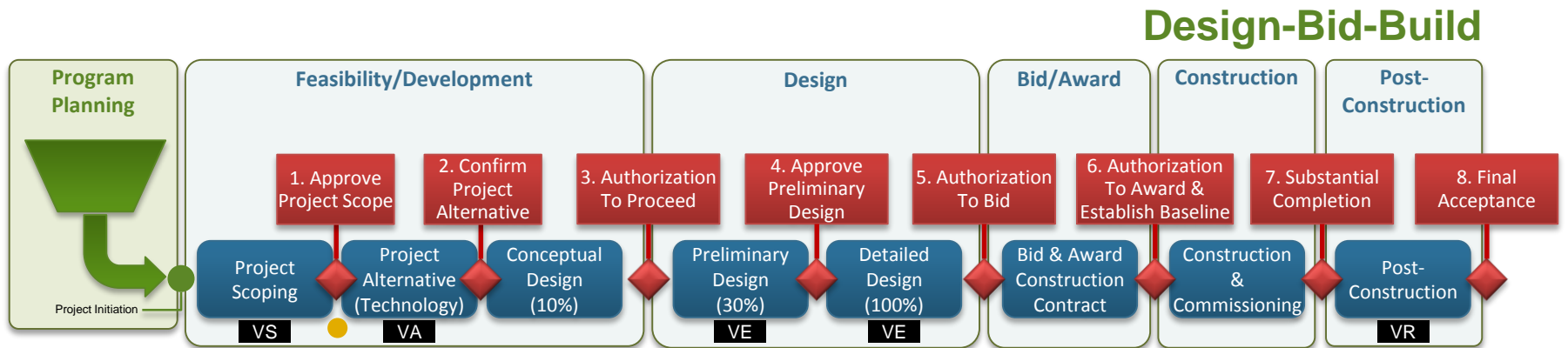
# CIP Overview

# Capital Improvement Program

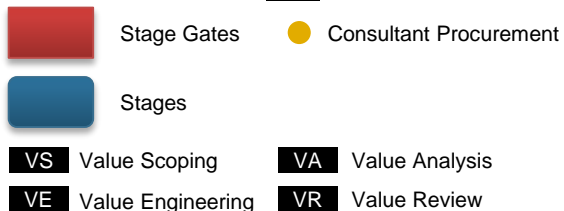
- \$1.4 billion, 10-year CIP (2014-2024)
- Consists of 33 projects
  - 22 active projects
- Integrated team
  - City Staff (Environmental Services and Public Works)
  - Program Management Consultants (Stantec and Carollo)
  - Support from Program-Level and Project-Specific Consultants
- Multiple systems and tools
  - Project Delivery Model
  - EADOC (a construction document management system)



# CIP Project Delivery Model



### Key



## Digester and Thickener Facilities Upgrade [switch project](#)

SJSC RWF CIP

Capital Improvement Project Team    Katie Razavi [logout](#)

2/1/2017 10:40:05 AM Pacific

Start    Memo    Dailylog    Meeting    Calendar    To Do

[scheduler](#)

View:

Level: project

### Inbox

- 4 DCM *(new)*
- 15 Meeting Invitations
- 44 Meeting Minutes *(new)*
- 1 Memo Response *(new)*
- 29 Memos *(new)*
- 1 Pay Application Response
- 4 Pay Applications *(new)*
- 169 RFI Responses *(new)*
- 3 RFIs *(new)*
- 216 Submittal Responses *(new)*
- 19 Submittals *(new)*
- 20 Support Responses

### Calendar

- Thursday, February 2
- Tuesday, February 7

### Documents Due

### Meetings

- 10:00 AM - 1/26/2017 Weekly Construction Progress Meeting
- 10:00 AM - 2/2/2017 Weekly Construction Progress Meeting
- 10:30 AM - 1/31/17 - Weekly PSRs Meetings (CM and O&M and Walsh)

### Outbox

- 17 Meeting Invitations
- 46 Meeting Minutes
- 5 Memos
- 78 RFIs
- 39 Submittal Responses
- 85 Submittals
- 4 Support Requests
- 12 Support Responses

### Recent Documents

- Inspection Request # 8
- Meeting Invitation # 71 - Meeting Minutes
- Inspection Request # 11
- Inspection Request # 10

**Spent:** 0.00  
**PCO Spent:** 0.00  
**Contracted:** 107,925,000.00  
**Contracted+CO:** 108,196,475.00  
**Contracted Spent:** 0.00%

**Pay Applications Pending:** 0.00  
**Retention Pending:** 0.00  
**Pay Applications Approved:** 0.00  
**Retention Approved:** 0.00  
**PCOs Pending:** 0.00  
**PCOs Approved:** 271,475.00  
**CO Pending:** 0.00  
**CO Approved:** 271,475.00  
**Risk Items Pending:** 0.00  
**Encumbered:** 108,196,475.00

**Project Days Remaining:** 612  
**Completion Date:** 08/08/2019

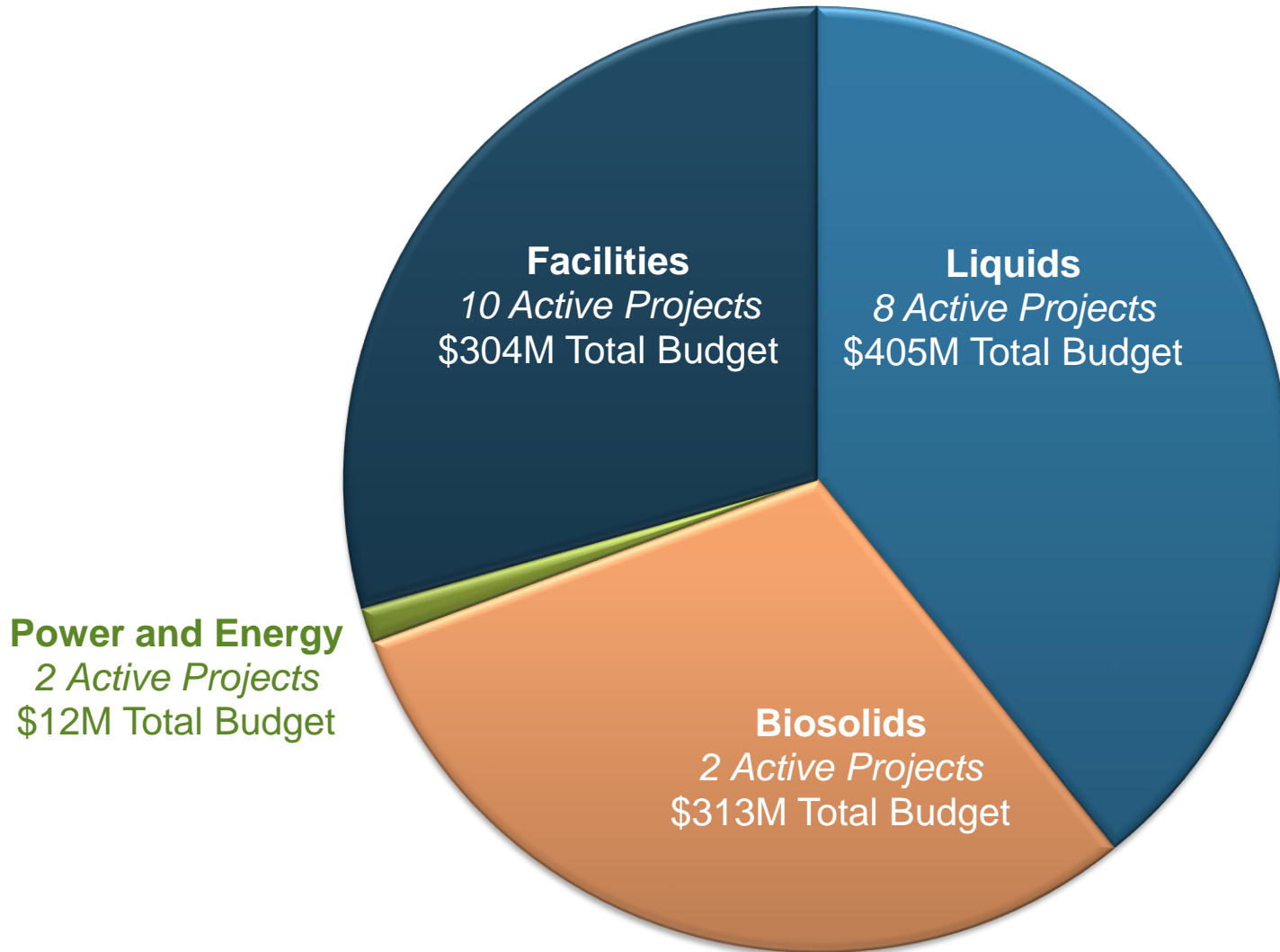
### Alerts

### Common Tasks

- Create Meeting Invitation
- Create Submittal
- Create Misc
- Create Support Request
- Create Memo
- Create RFI

- Start
- Work
- Documents
- Report
- Finance
- Profile
- Admin
- Help

# 22 Active Projects Organized Into 4 Packages



All amounts are subject to change. Source: **Adopted 2019-2023 CIP**

# Biosolids Package Overview



## Bid/Award

- Digested Sludge Dewatering Facility (\$116M, progressive design-build)

## Construction

- Digester and Thickener Facilities Upgrade (\$196M)

- **Filter Rehabilitation**
- **Nitrification Clarifiers Rehabilitation  
Phase 1**
- **Advanced Facility Control and Meter  
Replacement Phase 2**

**Liquids Package**

# Liquids Package Overview

## Feasibility/Development

- Aeration Tanks Rehabilitation (\$81M)

## Design

- **Advanced Facility Control and Meter Replacement Phase 2 (\$19M)**
- **Filter Rehabilitation (\$43M)**
- Headworks Improvements and New Headworks (\$145M, progressive design-build)
- **Nitrification Clarifier Rehabilitation Phase 1 (\$53M)**
- Nitrification Clarifier Rehabilitation Phase 2 (to be approved)

## Construction

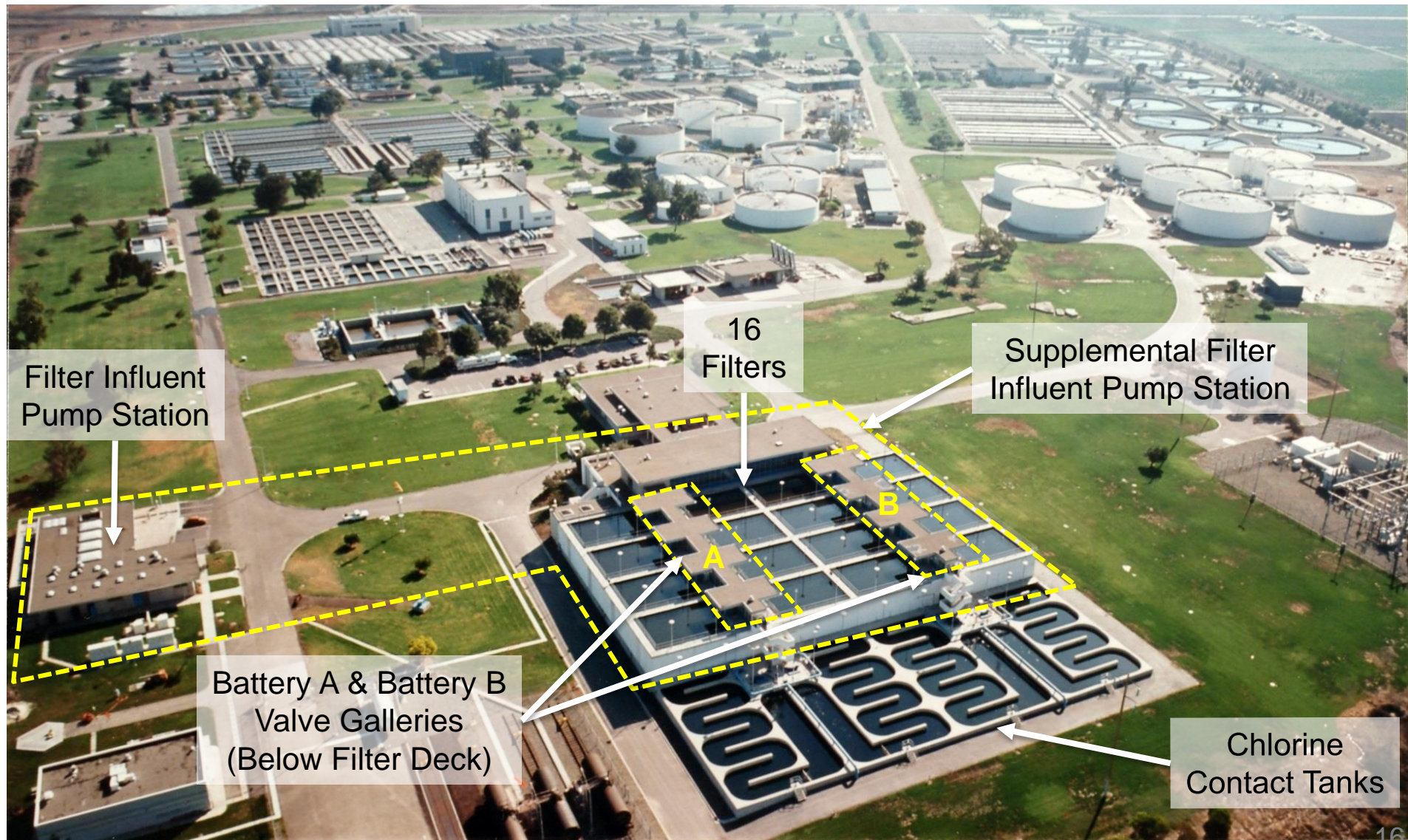
- Advanced Facility Control and Meter Replacement Phase 1 (\$13M)
- Blower Improvements (\$52M)





# Filter Rehabilitation

# Filter Rehabilitation Project Site Plan





# Filter Rehabilitation Project Description

- **Granular Media Filters**
  - Replace filter media
  - Repair underdrains
  - Remove existing surface wash system
  - Install air scour system
- **Electrical Improvements**
  - Replace switchgears and motor control centers
  - Reroute duct banks
- **Filter Building Improvements**
  - Replace valves and actuators in filter gallery
  - Improve lighting
  - Repair concrete on filter deck
- **Delivery Method:**  
Design-Bid-Build
- **Design Consultant:**  
Kennedy/Jenks Consultants
- **Engineer's Estimate:**  
\$28M (Class 3 OPCC based on 30% design)

# Filter Rehabilitation Project Schedule

- **Current Stage:**  
Detailed Design
- **Pre-Qualification Advertisement:**  
May 2019
- **Bid Advertisement:**  
November 2019
- **Construction Award:**  
June 2020
- **Substantial Completion:**  
March 2023



*Photo taken during an inspection of filter media. This project will replace filter media and remove the surface wash system.*

# Filter Rehabilitation Project Considerations

- Procurement of long lead electrical and mechanical equipment
- Maintaining RWF operations during implementation of complex construction activities (shutdowns)
- Bypass pumping required
- Space and accessibility constraints for valve replacement in filter gallery
- Construction interfaces with other projects

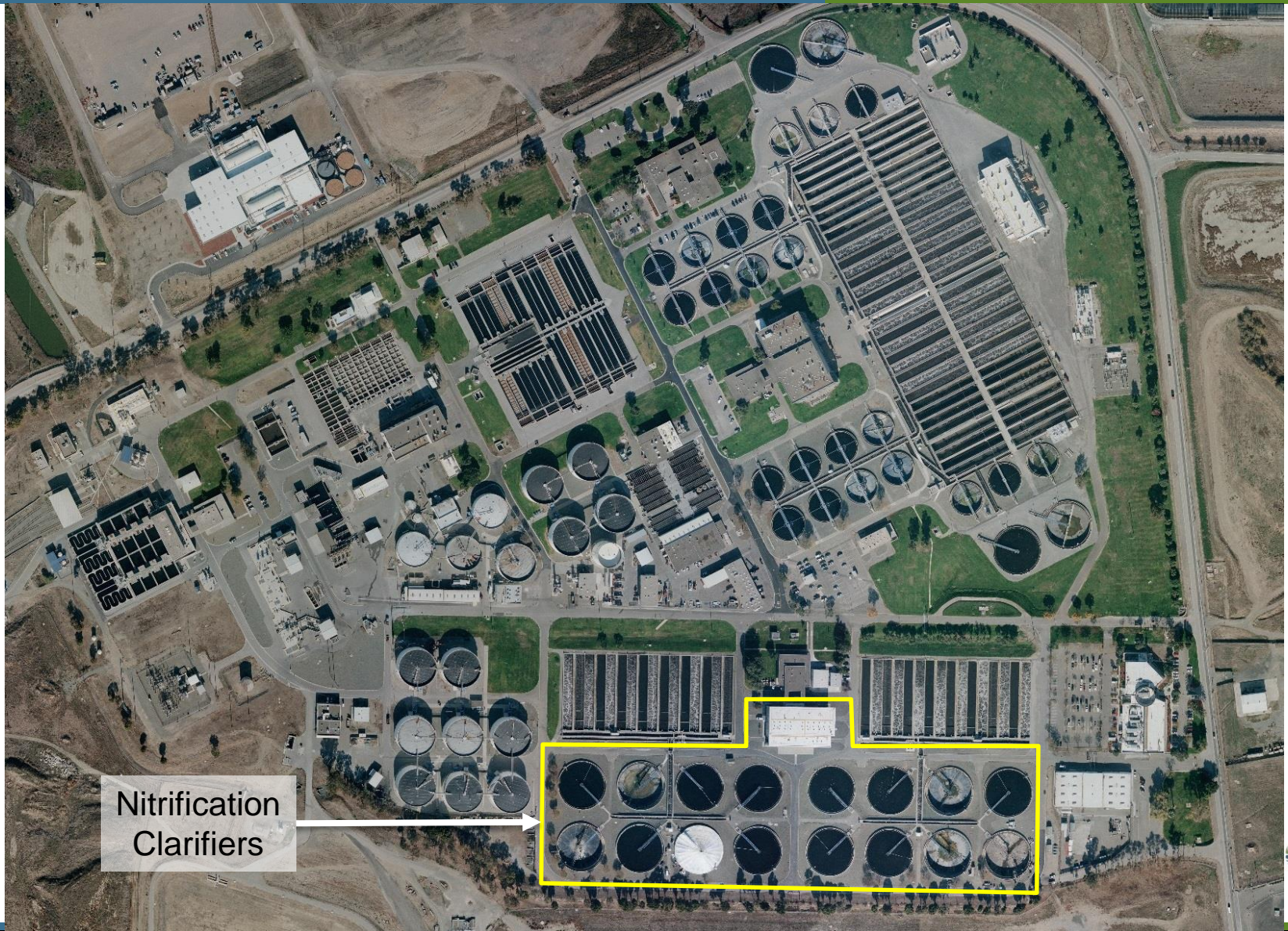


*There is limited space for valve replacement in the filter gallery.*



# Nitrification Clarifier Rehabilitation Phase 1

# Nitrification Clarifiers Project Site Plan



# Nitrification Clarifiers Project Description

- Replace the clarifiers' sludge collectors, bridges, and groundwater pressure relief valves
- Replace clarifier influent and return activated sludge (RAS) pipeline flow meters, valves, and actuators
- Supporting electrical, instrumentation and controls
  - Replace motor control centers and enclosures
  - Replace conductors and conduits
- Repair RAS pipelines with cured-in-place-pipe (CIPP)
- Install groundwater monitoring wells
- **Delivery Method:**  
Design-Bid-Build
- **Design Consultant:**  
HDR Engineering
- **Engineer's Estimate:**  
\$43M (Class 2 OPCC based on 60% design)

*All amounts are subject to change.*

# Nitrification Clarifiers Project Schedule

- **Current Stage:**  
Detailed Design
- **Pre-Qualification Advertisement:**  
January 2019
- **Bid Advertisement:**  
May 2019
- **Construction Award:**  
October 2019
- **Substantial Completion:**  
March 2022



*Internal clarifier components, including drive cage, support arms, suction header, sludge collector, and bridge, will be replaced.*

# Nitrification Clarifiers Project Considerations

- Procurement of long lead equipment (clarifier internals)
- Limited access for CIPP of RAS lines
- Maintaining RWF operations during implementation of complex construction activities (shutdowns)
- Valve and actuator replacement
- Limited work allowed during wet season





## Advanced Facility Control and Meter Replacement Phase 2

# Meter Replacement Project Site Plan



**Nitrification – Battery A**  
(Summer 2021 Construction)

- 13 Flow Meters
- 24 Valves and 12 Actuators
- 10 Sensors

**Secondary – Battery A**  
(Summer 2022 Construction)

- 40 Flow Meters
- 17 Sensors

**East Primary Tanks**

- 2 Flow Meters
- 4 Density Meters

**Filters**

- 34 Sensors

# Meter Replacement Project Description

- Replace critical, obsolete, and inaccurate instrumentation, valves, and actuators throughout the RWF
  - 65 Analytical Pieces of Equipment
  - 55 Flow Meters (10"-48")
  - 24 Valves
  - 12 Actuators
- **Delivery Method:**  
Design-Bid-Build
- **Design Consultant:**  
Black & Veatch
- **Engineer's Estimate:**  
\$11M (Class 2 OPCC based on 90% design)

# Meter Replacement Project Schedule

- **Current Stage:** Detailed Design
- **Pre-Qualification Advertisement:** July 2019
- **Bid Advertisement:** October 2019
- **Construction Award:** April 2020
- **Substantial Completion:** December 2022



*This project will replace 20" valves, meters, and piping in the Nitrification Tunnel.*

- **Fire Life Safety Upgrades**
- **Outfall Bridge and Levee Improvements**
- **96-inch and 87-inch Settled Sewage Pipe Rehabilitation**

**Facilities Package**

# Facilities Package Overview

## Feasibility/Development

- Facility-wide Water Systems Improvements (\$18M)
- **Fire Life Safety Upgrades (\$5M)**
- Flood Protection (\$9M)
- HVAC Improvements (\$14M)
- **Outfall Bridge and Levee Improvements (\$8M)**
- Storm Drain System Improvements (\$14M)
- Yard Piping and Road Improvements (\$120M, progressive design-build)

## Design

- **96-inch and 87-inch Settled Sewage Pipe Rehabilitation (to be approved)**

## Construction

- Cogeneration Facility (\$110M, progressive design-build)

## Post-Construction

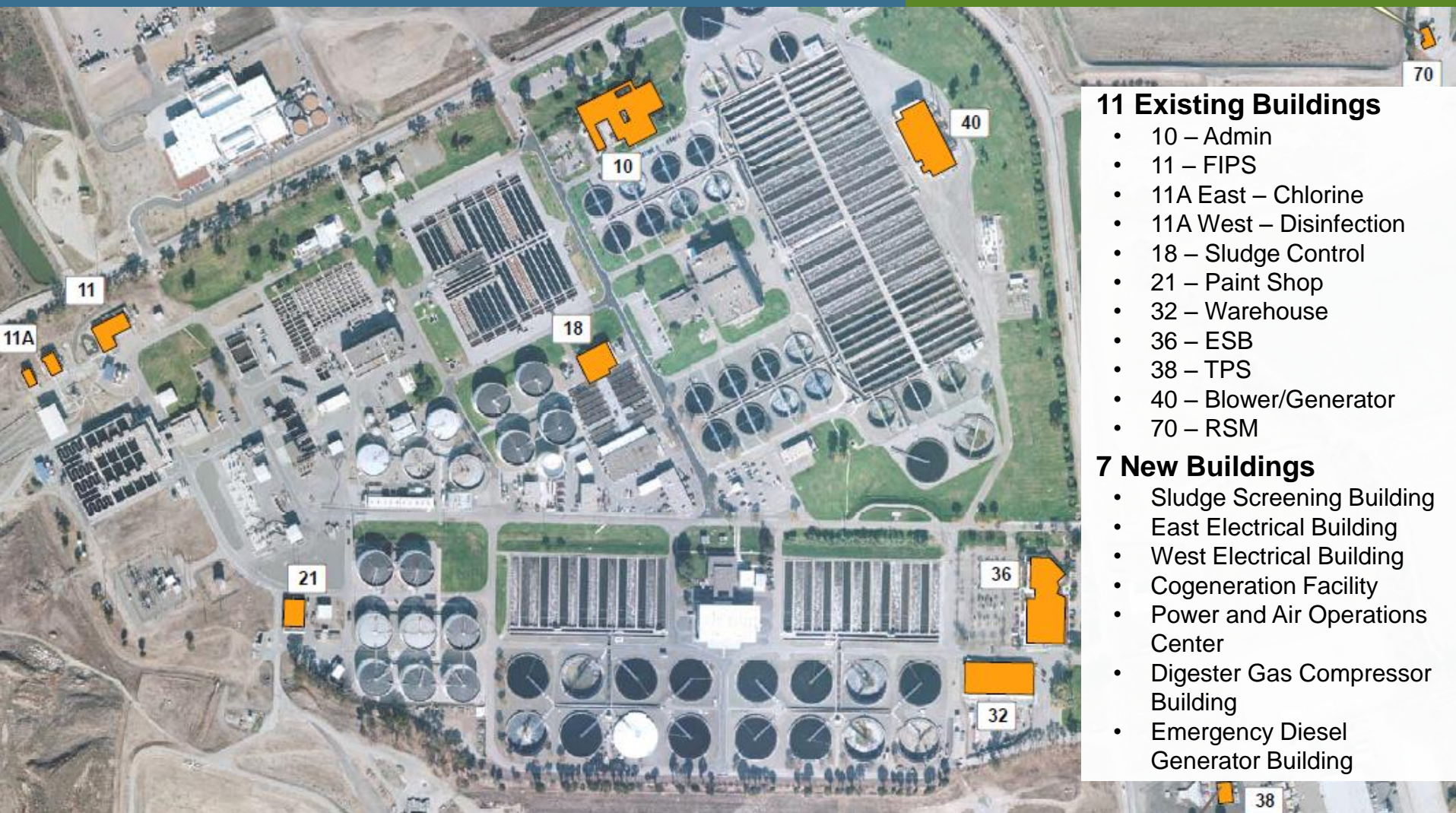
- Construction-Enabling Improvements (\$5M)





# Fire Life Safety Upgrades

# Fire Life Safety Upgrades Project Site Plan



## 11 Existing Buildings

- 10 – Admin
- 11 – FIPS
- 11A East – Chlorine
- 11A West – Disinfection
- 18 – Sludge Control
- 21 – Paint Shop
- 32 – Warehouse
- 36 – ESB
- 38 – TPS
- 40 – Blower/Generator
- 70 – RSM

## 7 New Buildings

- Sludge Screening Building
- East Electrical Building
- West Electrical Building
- Cogeneration Facility
- Power and Air Operations Center
- Digester Gas Compressor Building
- Emergency Diesel Generator Building

 Existing Buildings. New Buildings Not Shown.



# Fire Life Safety Upgrades Project Description

- Provide new local fire alarm systems in three existing buildings
- Provide a new centralized fire alarm monitoring system to monitor fire alarm panels in 11 existing buildings and 7 new buildings
- **Delivery Method:**  
30% Low Bid Design-Build
- **Design Consultant:**  
Kennedy/Jenks Consultants
- **Engineer's Estimate:**  
\$0.9M (Class 4 OPCC based on 10% design)

# Fire Life Safety Upgrades Project Schedule

- **Current Stage:**  
Conceptual Design (10%)
- **Bid Advertisement:**  
July 2019
- **Construction Award:**  
October 2019
- **Substantial Completion:**  
September 2022



*This project will connect an existing fire alarm control panel in ESB to a new centralized monitoring system.*



## Outfall Bridge and Levee Improvements

# Outfall Bridge Project Site Plan



# Outfall Bridge Project Description

- Replace Outfall Bridge
- Replace transformer
- Install rock riprap erosion protection at the weir
- Replace instrumentation on the bridge
- Replace final effluent flow meters at outfall pipes
- Install fiber optic system and add connections

- **Delivery Method:** 30% Low Bid Design-Build
- **Consultant:** AECOM
- **Engineer's Estimate:** \$3M (Class 5 OPCC from Project Alternative stage)



*A diver inspected flow meters inside outfall pipes in 2018.*

# Outfall Bridge Project Schedule

- **Current Stage:**  
Conceptual Design (10%)
- **Bid Advertisement:**  
May 2019
- **Construction Award:**  
October 2019
- **Substantial Completion:**  
March 2021



*Final effluent discharges over the weir, mixes with tidal water, and travels to the San Francisco Bay through Artesian Slough and Coyote Slough.*



**96-inch and 87-inch  
Settled Sewage (SES) Pipe Rehabilitation**

# 96-inch and 87-inch SES Project Site Plan





# 96-inch and 87-inch SES Project Description

- Rehabilitate 96-inch settled sewage pipeline using Cured-in-Place Pipe (CIPP)
- Rehabilitate 87-inch x 136-inch settled sewage pipeline using Spiral Pipe Renewal (SPR)
- **Delivery Method:** Design-Bid-Build
- **Design Consultant:** Black & Veatch
- **Engineer's Estimate:** \$5M (Class 4 OPCC based on 10% design)

# 96-inch and 87-inch SES Project Schedule

- **Current Stage:**  
Detailed Design
- **Pre-qualification Advertisement:**  
February 2019
- **Bid Advertisement:**  
May 2019
- **Construction Award:**  
October 2019
- **Substantial Completion:**  
December 2020



*This project will repair crown corrosion observed in the oval 87-inch x 136-inch Settled Sewage Pipe during a condition assessment in 2018.*

- **Switchgear M4 Replacement and G3 & G3A Removal**

**Power and Energy Package**

# Power and Energy Package Overview



## Design

- **Switchgear M4 Replacement and G3 & G3A Removal (\$7M)**

## Post-Construction

- **Plant Instrument Air System Upgrade (\$5M)**



*All total project budget amounts are subject to change.*



# Switchgear M4 Replacement and G3 & G3A Removal



# Switchgear Project Description

- Replace 4.16KV M4 switchgear and its enclosure
- Replace two 4.16KV bus ducts connecting M4 to 115/4.16KV transformers
- Replace 125VDC battery bank and its enclosure
- Remove 4.16KV G3/G3A switchgears at Building 40
- **Delivery Method:**  
Design-Bid-Build
- **Design Consultant:**  
Brown and Caldwell
- **Engineer's Estimate:**  
\$4M (Class 5 OPCC from Project Scoping stage)

# Switchgear Project Schedule

- **Current Stage:**  
Detailed Design
- **Bid Advertisement:**  
August 2019
- **Construction Award:**  
January 2020
- **Substantial Completion:**  
March 2022



*Replacement of the existing M4 switchgear enclosure and bus ducts will begin once the Cogeneration Facility is fully commissioned in 2020.*



**Procurement**

# Procurement Process

## Pre-Qualification (If Applicable)

Advertisement on BidSync

Pre-Qualification Submittal

Evaluation and Selection Process

Notice of Determination

## Design-Bid-Build

**100%** Plans & Specifications  
Advertisement on BidSync

Bid Submittal

Notice of Intent to Award

Notice of Award

Contract Execution

## Low Bid Design-Build

**30%** Plans and Specifications  
Advertised on BidSync

Bid Submittal

Notice of Intent to Award

Notice of Award

Contract Execution

All communication is via BidSync, the City's procurement solicitation website.

# Recent City Charter Amendments

- On November 6, 2018, San José voters approved changes to the City Charter described in Measure S
- Minor Public Works Contract: Engineer's Estimate threshold increased from \$100,000 to \$600,000
- Major Public Works Contract: The City has the option of using "Best Value Contracting" for projects with an Engineer's Estimate of \$600,000 or greater
  - Currently, the City awards contracts to the lowest responsive and responsible bidder
- Design-Build Threshold: Engineer's Estimate threshold decreased from \$5,000,000 to \$1,000,000
  - State law allows use of design-build projects if a project's Engineer's Estimate is \$1,000,000 or greater
- Changes are anticipated to go into effect in January/February 2019

# Project Labor Agreement Update

- Project Labor Agreement (PLA)
  - <http://sanjoseca.gov/DocumentCenter/View/80712>
- Negotiated Draft Agreement
  - <http://sanjoseca.gov/index.aspx?NID=6224>
- Contract Execution Date: To Be Determined

# Solicitation Website

**Current**

**BidSync™**  
POWERED BY Periscope

[www.bidsync.com](http://www.bidsync.com)



**Planned**  
(Spring 2019)

***Biddingo.com***  
*Paperless Bidding Technology*

[www.biddingo.com](http://www.biddingo.com)

Please register with BidSync to ensure you are notified when you are able to register with Biddingo.

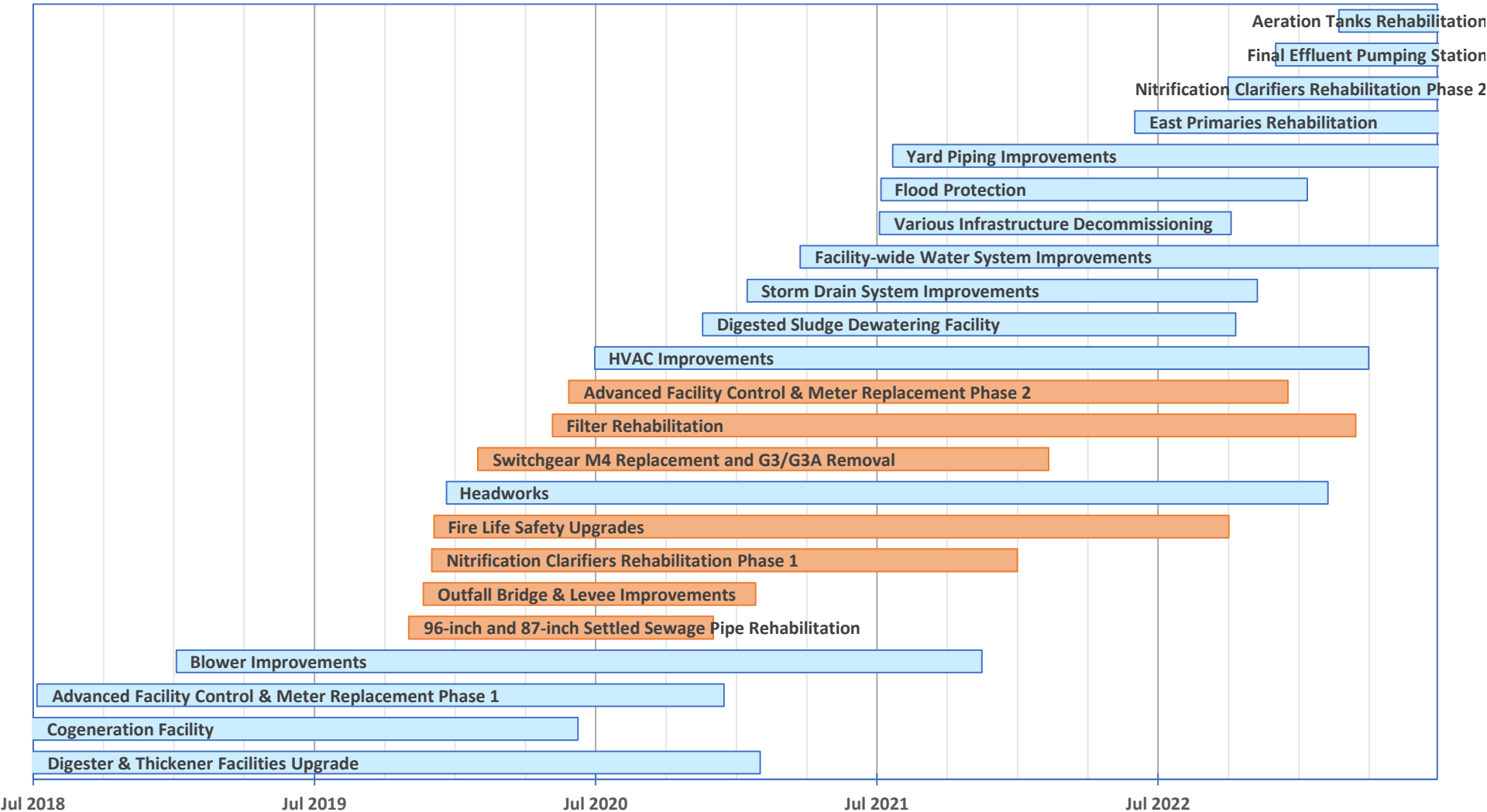
# Procurement Questions

- Contact David French, CIP Procurement Manager
  - [david.french@sanjoseca.gov](mailto:david.french@sanjoseca.gov)
- When procurements go live, all questions must be submitted via BidSync.
  - [www.bidsync.com](http://www.bidsync.com)



## Questions & Answers

# RWF CIP Construction Forecast



Jul 2018

Jul 2019

Jul 2020

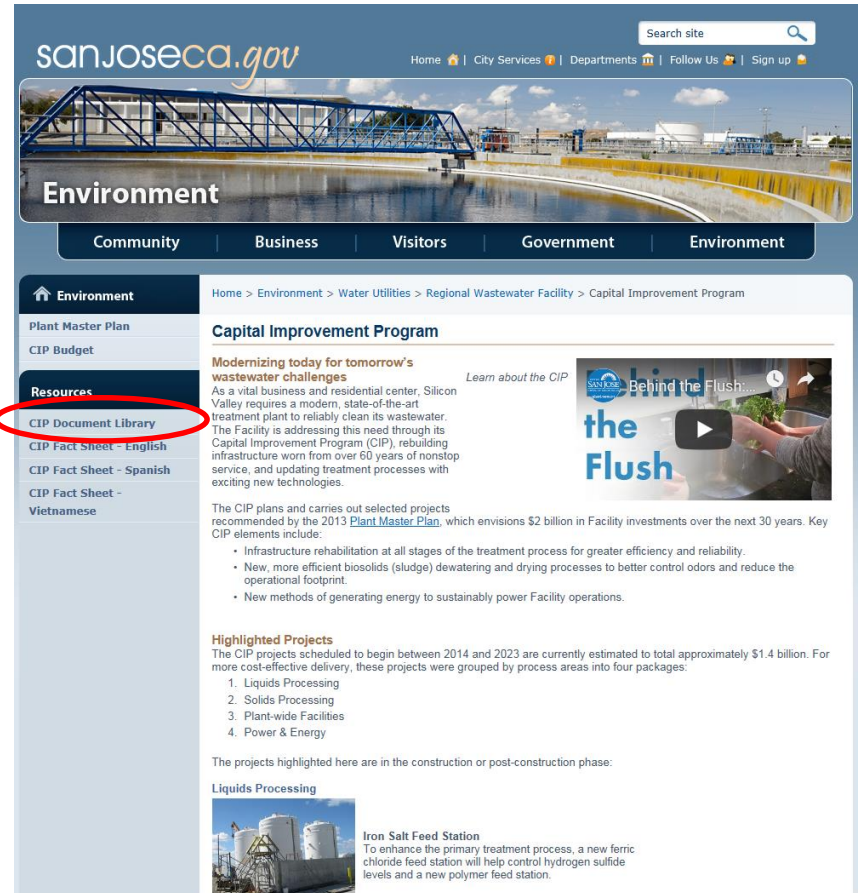
Jul 2021

Jul 2022



# Additional Information

- CIP Document Library
  - [www.sanjoseca.gov/cip](http://www.sanjoseca.gov/cip)
- San José-Santa Clara Regional Wastewater Facility
  - [www.sanjoseca.gov/rwf](http://www.sanjoseca.gov/rwf)



The screenshot shows the San Joseca.gov website. The main navigation bar includes links for Home, City Services, Departments, Follow Us, and Sign up. The page is titled "Environment" and features a navigation menu with "Community", "Business", "Visitors", "Government", and "Environment". The left sidebar contains a "Resources" section with the following links: "CIP Document Library" (circled in red), "CIP Fact Sheet - English", "CIP Fact Sheet - Spanish", and "CIP Fact Sheet - Vietnamese". The main content area is titled "Capital Improvement Program" and includes a video player for "Behind the Flush: the Flush". The page also contains text about modernizing the wastewater treatment plant and a list of highlighted projects.

**Environment**

Community | Business | Visitors | Government | Environment

Home > Environment > Water Utilities > Regional Wastewater Facility > Capital Improvement Program

**Capital Improvement Program**

Modernizing today for tomorrow's wastewater challenges

As a vital business and residential center, Silicon Valley requires a modern, state-of-the-art treatment plant to reliably clean its wastewater. The Facility is addressing this need through its Capital Improvement Program (CIP), rebuilding infrastructure worn from over 60 years of nonstop service, and updating treatment processes with exciting new technologies.

The CIP plans and carries out selected projects recommended by the 2013 [Plant Master Plan](#), which envisions \$2 billion in Facility investments over the next 30 years. Key CIP elements include:

- Infrastructure rehabilitation at all stages of the treatment process for greater efficiency and reliability.
- New, more efficient biosolids (sludge) dewatering and drying processes to better control odors and reduce the operational footprint.
- New methods of generating energy to sustainably power Facility operations.

**Highlighted Projects**

The CIP projects scheduled to begin between 2014 and 2023 are currently estimated to total approximately \$1.4 billion. For more cost-effective delivery, these projects were grouped by process areas into four packages.

1. Liquids Processing
2. Solids Processing
3. Plant-wide Facilities
4. Power & Energy

The projects highlighted here are in the construction or post-construction phase:

**Liquids Processing**

**Iron Salt Feed Station**

To enhance the primary treatment process, a new ferric chloride feed station will help control hydrogen sulfide levels and a new polymer feed station.

The San José-Santa Clara Regional Wastewater Facility's (RWF) Capital Improvement Program (CIP) is rebuilding and modernizing the RWF. The CIP envisions an investment of approximately \$1.4 billion in the first 10 years, with an approximate total investment of \$2.1 billion over 30 years.

The City of San José (City) has consolidated all procurement solicitations to post on BidSync (<https://www.bidsync.com/>). All bid documents, questions and answers, addenda, and results will be available electronically via BidSync during the procurement process. Interested firms must register on BidSync to receive notifications when procurements are posted.

The City plans to advertise the following procurements within the next six months.

### Construction Pre-Qualification Opportunities

<i>Procurement Name</i>	<i>Description</i>	<i>Anticipated Advertisement</i> <sup>1</sup>	<i>Construction Estimate</i> <sup>2</sup>
Request for Qualifications for Nitrification Clarifiers Rehabilitation Phase 1 <sup>3</sup>	The project will rehabilitate the structure, influent control system, and return activated sludge (RAS) pipelines for eight clarifiers. New stainless steel mechanisms will replace existing ones. The project will also replace all supporting electrical equipment; instrumentation and control equipment; RAS and influent flowmeters, valves and actuators for 16 clarifiers.	January 2019	\$43,400,000
Request for Qualifications for 96-inch and 87-inch Settled Sewage Pipe Rehabilitation <sup>4</sup>	The project will rehabilitate existing pipelines with crown corrosion using cured-in-place pipe and spiral pipe renewal techniques.	February 2019	\$5,400,000
Request for Qualifications for Filter Rehabilitation <sup>5</sup>	The project will place the media in 16 existing filters, install an air scour system, and repair concrete in the Filtration Building. This project will also replace all supporting electrical equipment, instrumentation and control equipment, and filter galley valves and actuators.	May 2019	\$28,200,000

### Design-Build Opportunities

<i>Procurement Name</i>	<i>Description</i>	<i>Anticipated Advertisement</i> <sup>1</sup>	<i>Construction Estimate</i> <sup>2</sup>
Request for Bids for Outfall Bridge and Levee Improvements	The low bid design-build project will replace an existing wood bridge with a prefabricated aluminum bridge, extend the RWF's fiber optic communications, and replace probes, meters, and a transformer.	May 2019	\$3,200,000

<sup>1</sup> All dates are estimates and are subject to change.

<sup>2</sup> All amounts are estimates and are subject to change.

<sup>3</sup> Contractors who are pre-qualified will be eligible to bid on this project. The City anticipates advertising this project's Request for Bids in May 2019.

<sup>4</sup> Contractors who are pre-qualified will be eligible to bid on this project. The City anticipates advertising this project's Request for Bids in May 2019.

<sup>5</sup> Contractors who are pre-qualified will be eligible to bid on this project. The City anticipates advertising this project's Request for Bids in November 2019.

# Capital Improvement Program Attendee List



San José-Santa Clara  
Regional Wastewater Facility

## Meeting Information:

**Meeting Name:** Vendor Open House

**Date:** Wednesday, December 5, 2018

**Time:** 1:30 p.m. – 5:00 p.m.

**Location:** Administration Building, 700 Los Esteros Road, San José, CA 95134

#	Company	First Name	Last Name	Email Address
1	ABB	Vijay	Rengaraju	<a href="mailto:vijay.rengaraju@us.abb.com">vijay.rengaraju@us.abb.com</a>
2	AECOM	Tsu Ling	Peng	<a href="mailto:tsuling.peng@aecom.com">tsuling.peng@aecom.com</a>
3	AIMS/PVIC, CA LLC DBA AIMS Companies	Amber	Demain	<a href="mailto:ademain@aimscompanies.com">ademain@aimscompanies.com</a>
4	AIMS/PVIC, CA LLC DBA AIMS Companies	Matt	Duff	<a href="mailto:mduff@aimscompanies.com">mduff@aimscompanies.com</a>
5	Ameresco, Inc.	Paul	Douglas	<a href="mailto:pdouglas@ameresco.com">pdouglas@ameresco.com</a>
6	AP/M Permaform	Donald	Sims	<a href="mailto:d.sims@earthlink.net">d.sims@earthlink.net</a>
7	Aquadyne Associates	Raymond	Burns	
8	Arcosa Lightweight	Nick	Barrett	<a href="mailto:nick.barrett@arcosa.com">nick.barrett@arcosa.com</a>
9	Bear Electric Solutions	Roy	Hays	<a href="mailto:roy@bear-electrical.com">roy@bear-electrical.com</a>
10	Black & Veatch	Randy	Fiorucci	<a href="mailto:fioruccirw@bv.com">fioruccirw@bv.com</a>
11	Black & Veatch	Craig	Lichty	<a href="mailto:lichtyc@bv.com">lichtyc@bv.com</a>
12	Brown and Caldwell	Manjit	Saini	<a href="mailto:msaini@brwncald.com">msaini@brwncald.com</a>
13	Brown and Caldwell	Anup	Shah	<a href="mailto:ashah@brwncald.com">ashah@brwncald.com</a>
14	C. Overaa & Co.	Paul	Cassinelli	<a href="mailto:paulc@overaa.com">paulc@overaa.com</a>
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