



Vendor Open House

Capital Improvement Program

February 24, 2020



San José-
Santa Clara
Regional
Wastewater
Facility

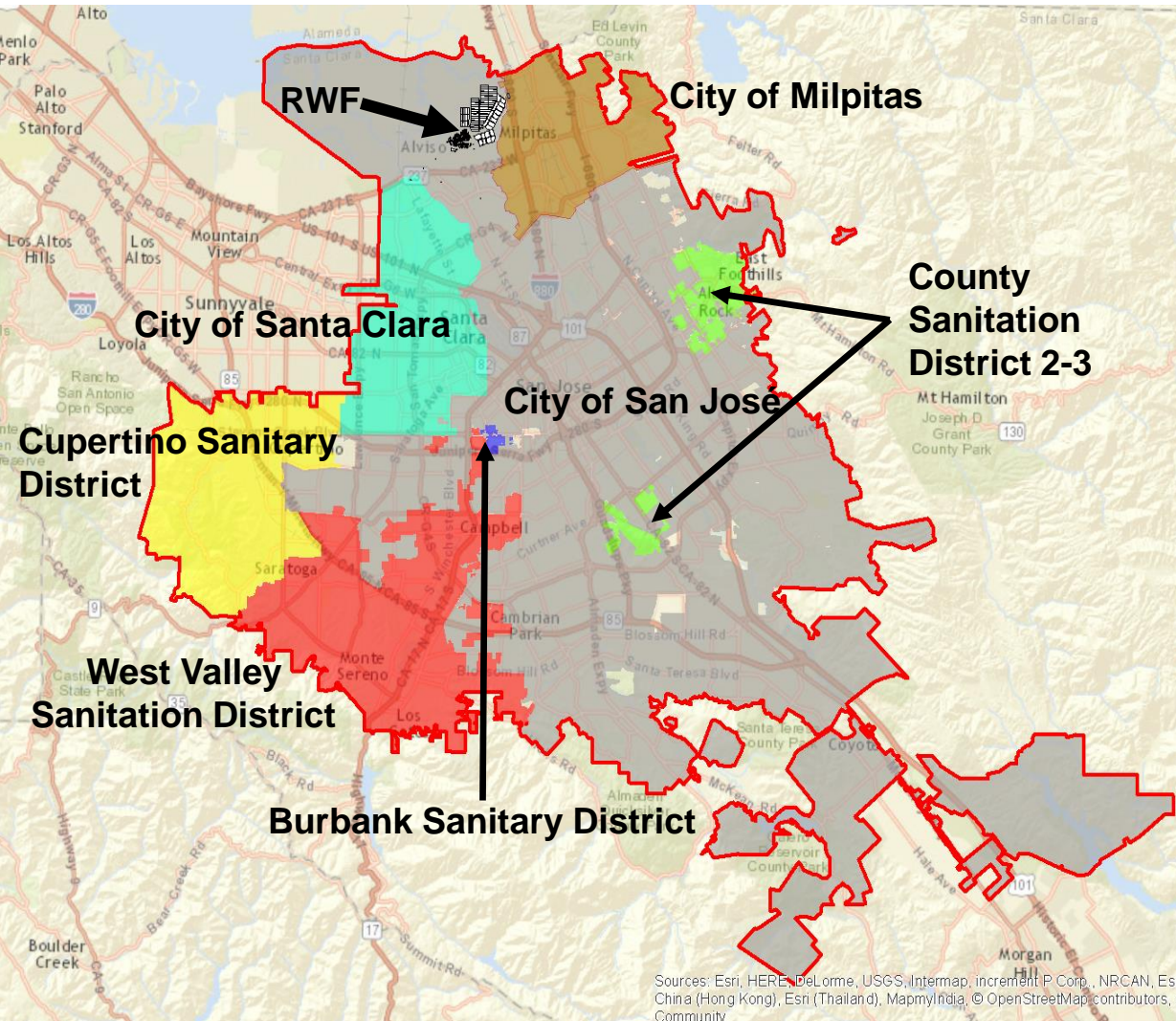
Agenda

- RWF Overview
- CIP Overview
- Construction Opportunities
- Design Opportunities
- Program Agreements
- City Procurement Process
- 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**

CIP Overview

Accomplishments to Date

- November 2013: Plant Master Plan and Environmental Impact Report adopted
- 10-year Capital Improvement Program (CIP) started in July 2014
- 8 projects (\$44M) completed
- 7 projects currently in construction (\$237M), and 4 additional projects (\$172M) scheduled to start construction in the next 6 months
- 2 major projects – Digester and Thickener Facilities Upgrade (\$108M) and Cogeneration Facility (\$89M, progressive design-build) – to be commissioned in 2020

All amounts are subject to change.

CIP Overview – Cogeneration Project



CIP Overview – Digesters Project



Construction Opportunities





Digested Sludge Dewatering Facility

Dewatering Facility Project Description

- New dewatering buildings that house a mechanical dewatering system; polymer storage, blending and dosing facilities
- Dewatered cake conveyance and storage facilities that lead to truck loading bays with weighing scales
- A new process control room, Motor Control Center, switchgear, and heating/ventilation/air conditioning systems to support the dewatering facility.
- **Delivery Method:**
Progressive Design-Build
- **Owner's Advisor:**
Brown and Caldwell
- **Design Builder:**
Walsh Construction / Black & Veatch
- **Current Project Value:**
\$128M (Class 2 OPCC)

Dewatering Facility Project Schedule

- **DB Contract Award (Preliminary Services):** July 2019
- **Subcontractor Prequalification:** March 2020*
- **Award of Guaranteed Maximum Price:** April 2021
- **Construction Start:** April 2021
- **Contract Substantial Completion:** April 2023

Dewatering Facility Project Subcontracting Opportunities

July 2021 – July 2022

- Earthwork (~\$1.4M)
- Electrical (\$22.1M)
- Integrator (TBD)
- Demo (\$220,000)
- Structural Steel (\$1.6M)
- Rebar (~\$3.6M)
- T-Lock (\$725,000)
- Post-Tensioning (\$1.4M)
- Miscellaneous Metal (\$2.5M)

October 2021 – September 2022

- Fire Protection (\$75,000)
- Roofing (\$1.3M)
- HVAC (\$1M)
- Masonry (\$800,000)
- Glass & Glazing (TBD)
- Doors & Windows (\$160,000)

July 2022 – April 2023

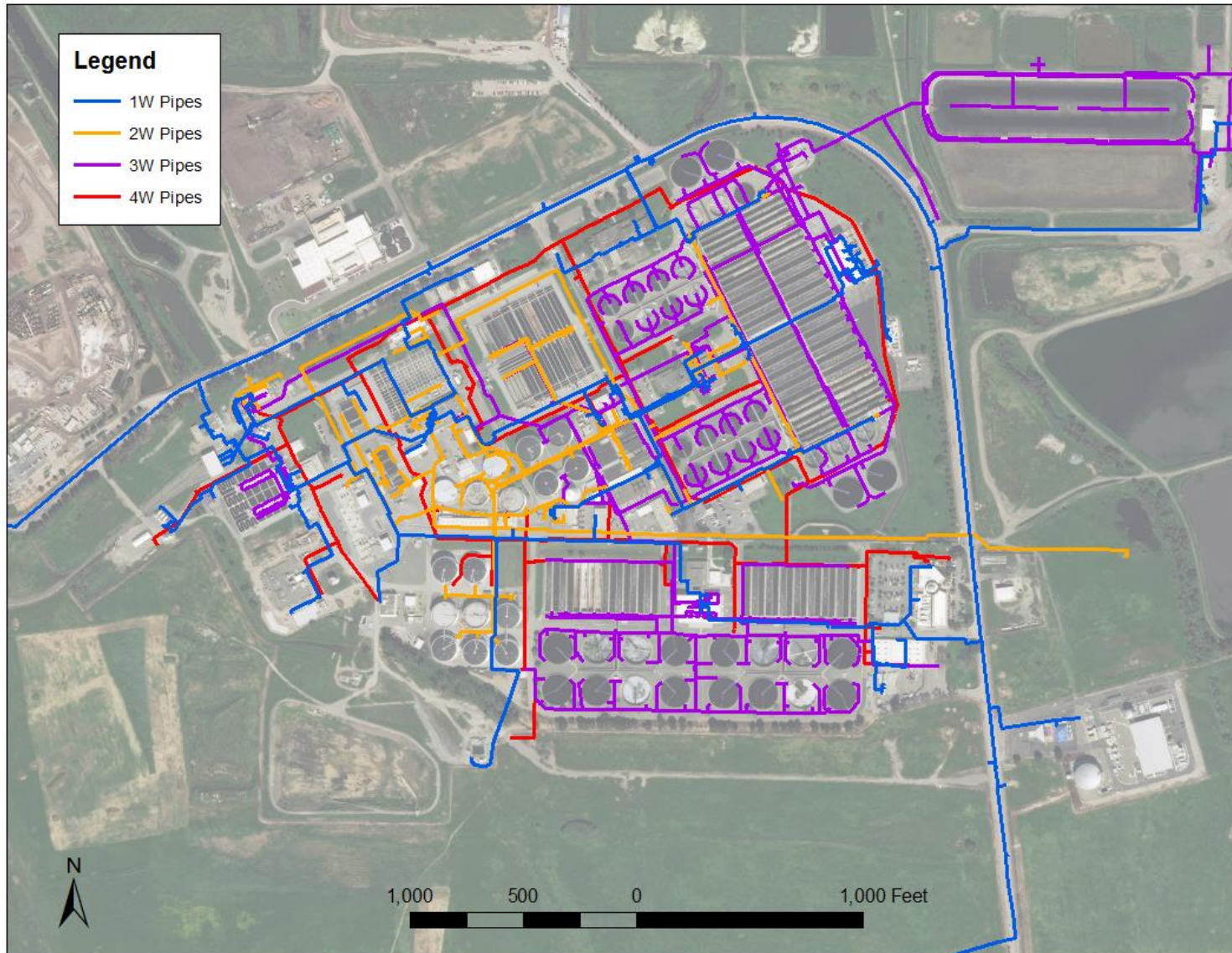
- Flatwork (\$825,000)
- Architectural Finishes (1.8M)
- Painting and Coatings
- Insulation (\$1.5M)
- Landscaping & Irrigation (\$330,000)
- Fencing (\$140,000)

All dates and amounts are subject to change.



Facility Wide Water System Improvements

Facility Wide Water System Project Site Plan



Facility Wide Water System Project Description

- 1W (Potable water) - Replace up to 7,700 LF) of pipes (up to 8")
- 2W (Groundwater) - Replace up to 9,900 LF of existing 2W pipes (up to 8")
- 3W (Process water) - Replace up to 11,100 LF of 3W pipes (2" to 10"), and install high-pressure pump station and loop
- 4W (Fire water) - Supply the 4W system with potable water
- **Current Stage:**
Conceptual Design
- **Delivery Method:**
Design-Bid-Build
- **Consultant:**
Kennedy/Jenks
- **Engineer's Estimate:**
\$20M (Class 5 OPCC)

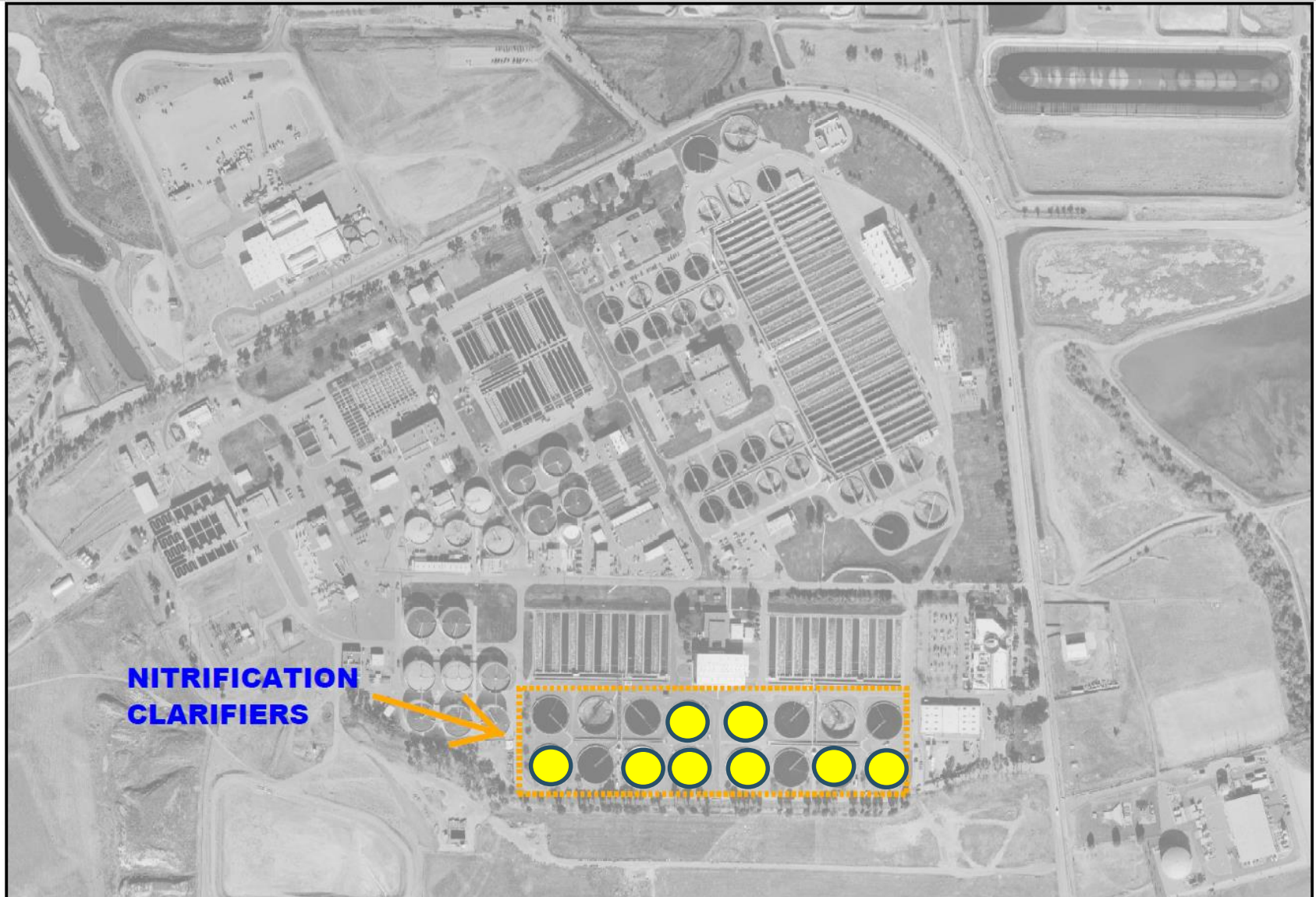
Facility Wide Water Systems Project Schedule

- **Exploratory Trenching Contract Advertisement (\$600,000 Engineer's Estimate):** May 2020
- **Construction Contractor Prequalification:** June 2021
- **Construction Bid Advertisement:** February 2022
- **Construction Award:** June 2022
- **Substantial Completion:** January 2025



Nitrification Clarifiers Rehabilitation Phase 2

Nitrification Clarifiers Phase 2 Project Site Plan



Nitrification Clarifiers Phase 2 Project Description

- Replacement of 8 clarifier mechanisms and rehabilitation of up to 8 corresponding return activated sludge (RAS) lines
- Provide tie-in to existing electrical and I&C equipment
- **Current Stage:**
Detailed Design
- **Delivery Method:**
Design-Bid-Build
- **Design Consultant:**
HDR
- **Engineer's Estimate:**
\$24M (Class 5 OPCC)

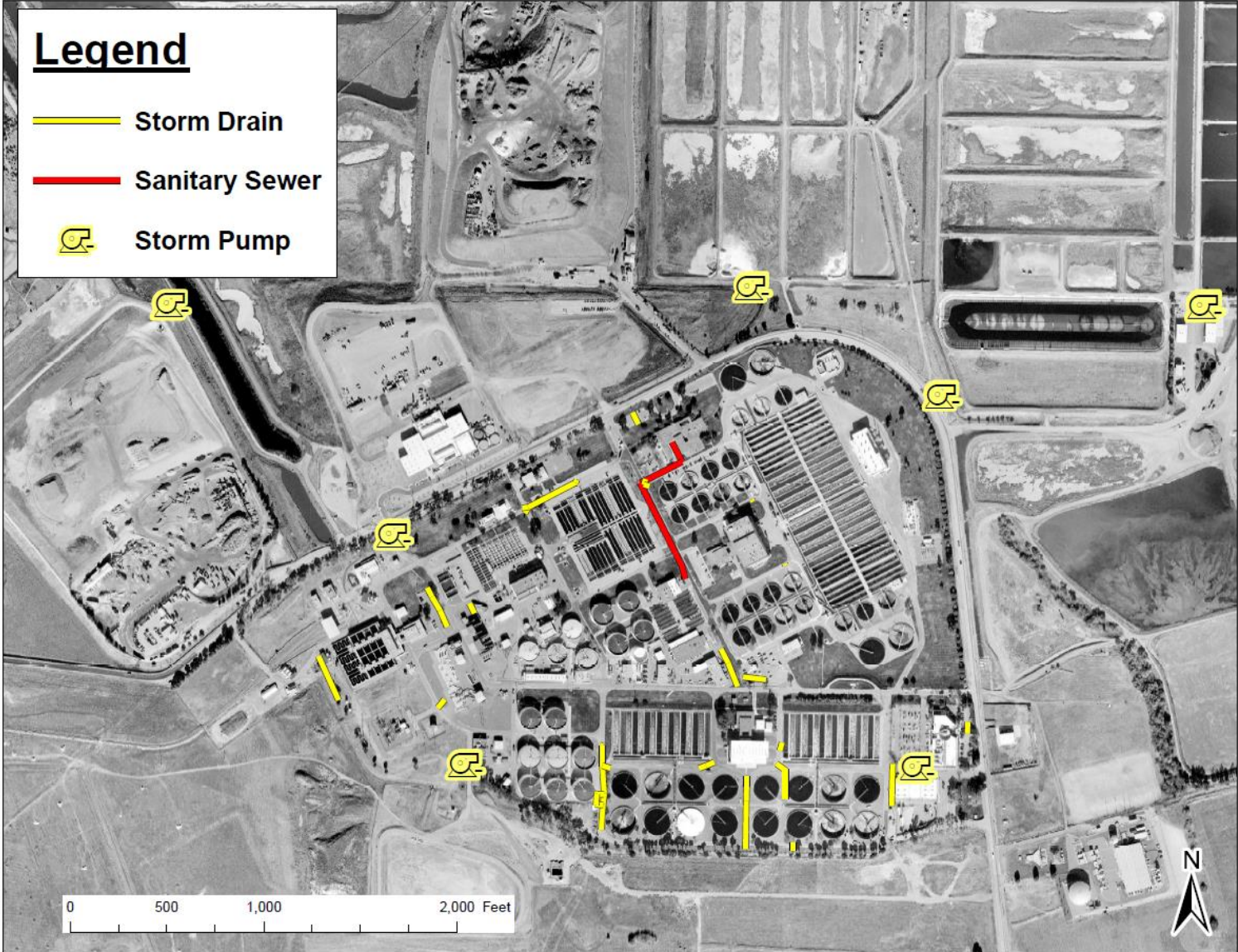
Nitrification Clarifiers Phase 2 Project Schedule

- **Prequalification:** Fall 2021
- **Bid Advertisement:** Spring 2022
- **Construction Award:** Summer 2022
- **Contract Substantial Completion:** Spring 2024



Storm Drain System Improvements

Storm Drain System Improvement Project Site Plan



Storm Drain System Improvement Project Description

- Replace existing pumps and rehabilitate pump stations
- Replace ~2,400 LF of stormwater pipes, and flush and clean ~5,000 LF of additional storm drain pipes.
- Replace ~1,000 LF sanitary sewer pipes, and flush and clean ~1,700 LF of additional sanitary pipes
- **Current Stage:**
Conceptual Design
- **Delivery Method:**
Design-Bid-Build
- **Design Consultant:**
AECOM
- **Engineer's Estimate:**
\$4.3M (Class 5 OPCC)

All amounts are subject to change.

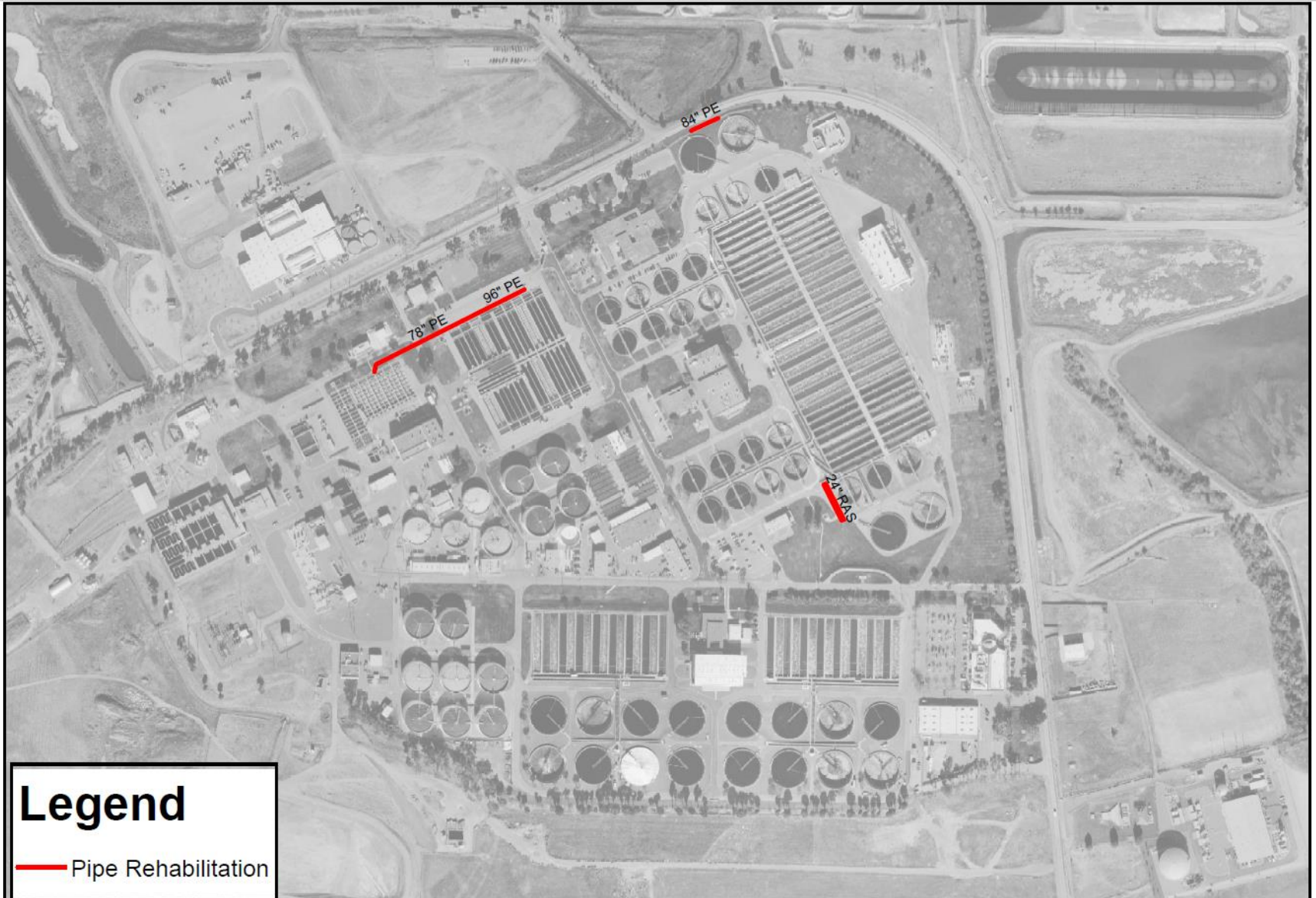
Storm Drain System Improvements Project Schedule

- **Bid Advertisement:** September 2021
- **Construction Award:** December 2021
- **Substantial Completion:** July 2023



Yard Piping Improvements Phase 1

Yard Piping Phase 1 Project Site Plan



Yard Piping Phase 1 Project Description

- Repair and replace
 - 212 LF of 78” Primary Effluent (PE) pipe
 - 111 LF of 84” PE pipe
 - 145 LF of 96” PE pipe
 - 351 LF of the 24” Return Activated Sludge (RAS) pipes
- Constructing temporary access to facilitate condition assessments of pipes
- **Current Stage:**
Conceptual Design
- **Delivery Method:**
Design-Bid-Build
- **Design Consultant:**
Black & Veatch
- **Engineer’s Estimate:**
\$4.6M (Class 5 OPCC)

Yard Piping Phase 1 Project Schedule

- **Prequalification:** July 2020
- **Bid Advertisement:** October 2020
- **Construction Award:** January 2021
- **Substantial Completion:** October 2021

Design Opportunities



Project Specific Design Opportunities & Bid Schedule

- **Additional Digesters:** Fall 2021
- **East Primary Rehabilitation:** Summer/Fall 2020
- **Various Infrastructure Decommissioning:**
Summer/Fall 2020
- **Final Effluent Pump Station:** Fall 2020

Program Agreements



Upcoming Program Agreements

■ Construction Management (CM) Services

- RFQ is live on Biddingo

■ CM Controls Services

- RFQ Advertisement: February 2020
- Award: June 2020
- Term: 6 years (from contract execution)
- Maximum Compensation: \$6,000,000

■ General Engineering

- RFQ Advertisement: Winter 2020

■ Value Engineering

- RFQ Advertisement: Winter 2020

All total project budget amounts and dates are subject to change.

City Procurement Process



Procurement Process

Pre-Qualification (If Applicable)	
Advertisement on Biddingo	
Pre-Qualification Submittal	
Evaluation and Selection Process	
Notice of Determination	
Design-Bid-Build	Low Bid Design-Build
100% Plans & Specifications Advertisement on Biddingo	30% Plans and Specifications Advertised on Biddingo
Bid Submittal	Bid Submittal
Notice of Intent to Award	Notice of Intent to Award
Notice of Award	Notice of Award
Contract Execution	Contract Execution

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

Project Labor Agreement Update

- Project Labor Agreement (PLA)
 - Pre-hire collective bargaining agreement that establishes labor terms and conditions, with the Santa Clara and San Benito Building Trades Council for most construction projects of \$3 million or more.
 - [PLA Agreement](#)
- More information can be obtained from the City's Office of Equality Assurance at (408) 535-8430.

Solicitation Website – www.biddingo.com/sanjose

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Biddingo Member

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Doing Business with City of San José

Thank you for your interest in doing business with the City of San José. The City uses Biddingo.com as its e-procurement solution. You can register with Biddingo to receive, at no cost, notification of and access to City of San José solicitations, electronic documents, solicitation amendments, document takers, and bid results.

Please make sure that your profile is accurate, complete, and kept up to date. You will automatically be notified by e-mail when a new bid is published for the commodity code(s) you select in your profile.

To get started with a new registration or to update your existing information, please click the [Vendor Registration / Update](#) on the left.

For questions regarding the vendor registration process or assistance with using the Biddingo system, please see the online guide on the left menu or contact Biddingo support by phone at 1-800-208-1290 or by email at info@biddingo.com.

Search bids by name or number

City of San José - Purchasing City of San José - Construction City of San José - Consulting

Total Found: **40** | Displaying: **1-10** | Results per page: **10** ▼
[Previous] **1** **2** **3** **4** [Next]

Please register with Biddingo to receive notifications on bid release.

www.biddingo.com/sanjose

When procurements go live, all questions must be submitted via Biddingo.

Questions & Answers



Additional Information

- CIP Document Library

- www.sanjoseca.gov/cip

- San José-Santa Clara Regional Wastewater Facility

- www.sanjoseca.gov/rwf

The screenshot shows the website for the San José-Santa Clara Regional Wastewater Facility. The navigation menu on the left includes: Environmental Services Calendar, Treatment Plant Advisory Committee (TPAC), Recycling & Garbage, Water Utilities, Regional Wastewater Facility Treatment Process, Capital Improvement Program (highlighted), Plant Master Plan, CIP Budget, Laboratory, Regulations & Reports, Job Opportunities: Wastewater & CIP, Protecting Our Environment, Sanitary Sewer Service Charges, Stormwater, Drinking Water, Recycled Water, Climate Smart San José, Energy, Illegal Dumping & Litter, Our Creeks, Rivers & Bay, Homes: Green Tips & Resources, and Business & School Resources. The main content area features a video titled "Behind the Flush" with a play button and the text "Learn about the CIP". Below the video, it states: "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." The "Highlighted Projects" section lists: Iron Salt Feed Station, Headworks Critical Improvements, and Solids Processing. The "History" section includes "Our Progress" with a timeline showing the 2013 Plant Master Plan and the 2016 August update.