

CITY COUNCIL PUBLIC HEARING

MODIFICATIONS TO THE WASTEWATER TREATMENT PLANT UPGRADE - PA 17-075

APRIL 15, 2019

AGENDA

- Purpose
- Reasons for Modification
- Background
- Design modifications / renderings
- Resolution Adoption; Ordinance Introduction

PURPOSE

Review and consider design modifications to the approved WWTP:

- Modification to the Site Plan & Architectural Review (SPAR)
- Second Addendum to the EIR
- Ordinance to allow off-site construction staging

WHY HAS THE PROJECT CHANGED?

- Redesigned to mitigate rising construction costs
 ~\$25M in savings
- Aligned design with pending regulatory requirements
- Optimized treatment process facilities
- Maintains Program Objectives

BENEFITS OF THE MODIFICATIONS

- Critical RWQCB requirements and deadlines
- Meets WIFIA application schedule for August 2019
 \$100M in interest cost savings for rate payers
- Mitigates continually rising construction costs
 ~\$1M in cost escalation each month of delay
- Maintains schedule to award construction contract on May 6, 2019

PROJECT LOCATION



RECENT PROJECT HISTORY

- July 16, 2018 Council approved WWTP project
- FEBRUARY 19, 2019 CWP Update, City Council acknowledged project modifications
- MARCH 4, 2019 Council Adopted a Resolution exempting project modifications from having to conduct a Neighborhood Meeting and Study Session
- MARCH 26, 2019 Planning Commission Public Hearing on project modifications

ORIGINAL APPROVAL

HEADWORKS DUAL USE CLARIFIER NO. 2 DUAL USE CLARIFIER NO. 3 - 8" HIGH VEHICULAR GATE, 25" WIDE SLIDING PANELS

MODIFIED PROJECT



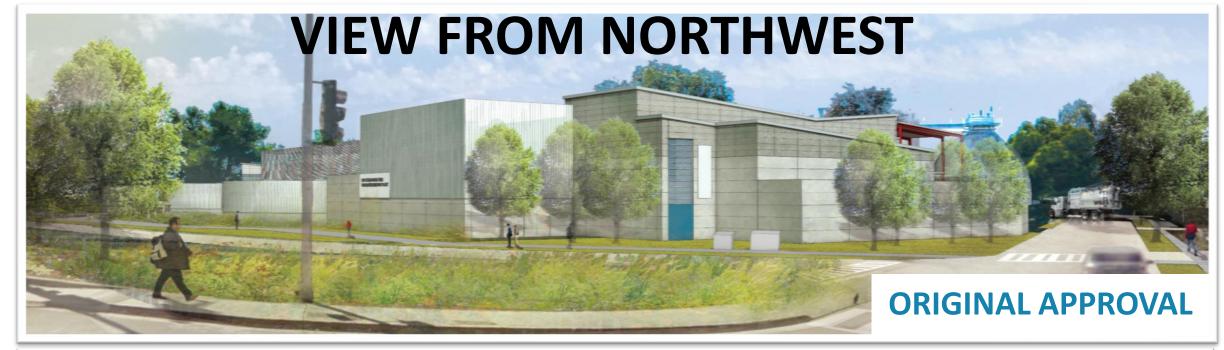


DESIGN MODIFICATIONS

- 1. Replacement of circular clarifiers with rectangular and a reduction of the structure by 31,950 SF
- 2. Relocation of Administration Building
- 3. Increase in size of maintenance warehouse building by 2,800 SF and a change in the exterior materials
- 4. Landscape modifications

AERIAL VIEW OF MODIFIED PROJECT







VIEW FROM PEDESTRIAN PATH



MODIFIED PROJECT



ORIGINAL APPROVAL

VIEW FROM NORTHEAST





OFF-SITE CONSTRUCTION STAGING



- Three City-Owned parcels
- Parks and Recreation Commission approved
- First Addendum evaluated environmental affects
- Zoning Code prohibits in the Open Space and Shoreline Districts
- Ordinance required

CEQA

Second Addendum was prepared:

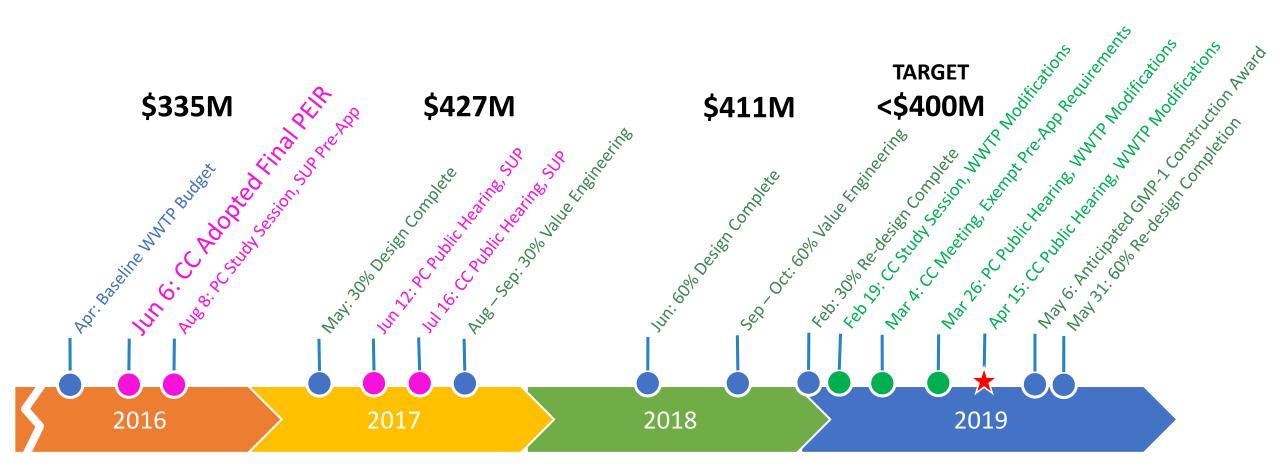
- Only Minor Changes to the Project;
- No New Information;
- No New Environmental Impacts; and
- No New Mitigation Measures.

RECOMMENDED COUNCIL ACTIONS

- Adopt Resolution:
 - Approving Design Modifications to the SPAR; and
 - Finding that the Second Addendum adequately analyzes the environmental affects of modifications
- Introduce Ordinance Exempting specific City-Owned
 Sites from the Provisions of the Zoning Code



PROJECT HISTORY



Color Legend:

Timeline of Project Design and Cost Progress

Planning Commission (PC) and City Council (CC) Meetings (Previously Approved Project)

Planning Commission (PC) and City Council (CC) Meetings (Project Modifications)

SAN FRANCISCO BAY PEDESTRIAN PATH WITH EDUCATIONAL SIGNAGE BIORETENTION, TYP. EX TREES TO REMAIN 12' WIDE VEHICULAR 8' HIGH VEHICULAR GATE, 25' WIDE (E) DRIVEWAY ACCESS 8' HIGH VEHICULAR GATE (E) BLDG (N) PEDESTRIAN ASPHALT PATH (E) FACILITY

LANDSCAPE DESIGN

Increased Perimeter
Landscaping at Pedestrian Path

Stormwater Treatment

Shifted Screening Landscaping

Additional Open and Green Space

WWTP ENTRY VIEW



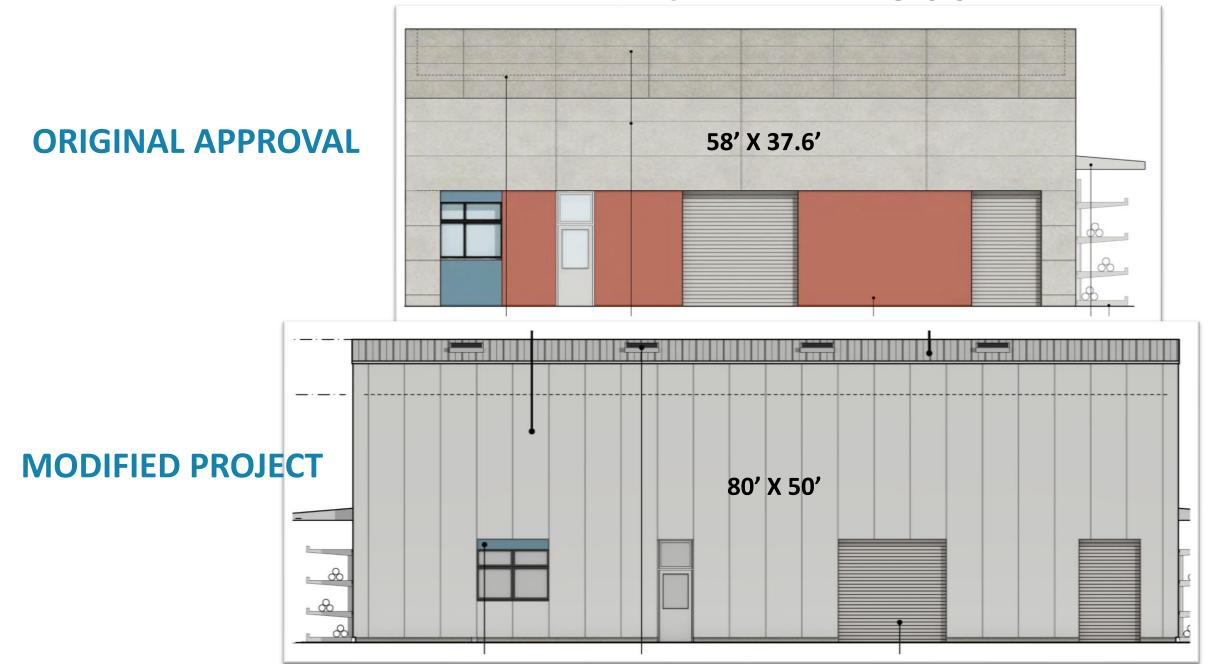
PEDESTRIAN & BIKE PATH WITH INTERPRETIVE LANDSCAPE



PUBLIC INTERFACE AT ADMINISTRATION BUILDING



MAINTENANCE WAREHOUSE



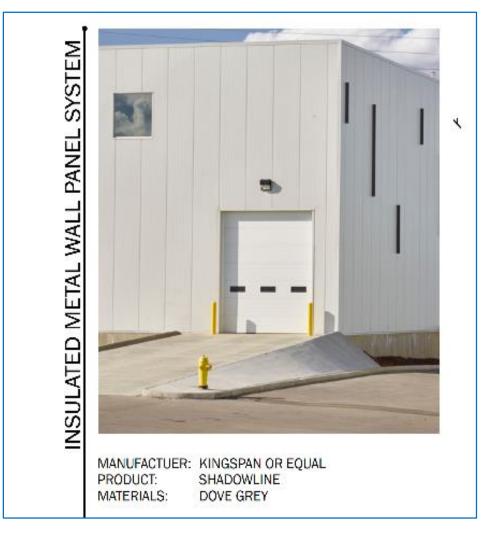
MAINTENANCE BUILDING EXTERIOR



MATERIAL: POURED-IN-PLACE CONCRETE FINISH: HORIZ. & VERT. REVEALS

COLOR: -

ORIGINAL APPROVAL



MODIFIED PROJECT

SITE OVERVIEW





ORIGINAL APPROVAL - REAR PERSPECTIVE



MODIFIED PROJECT - REAR ELEVATION



ORIGINAL APPROVAL

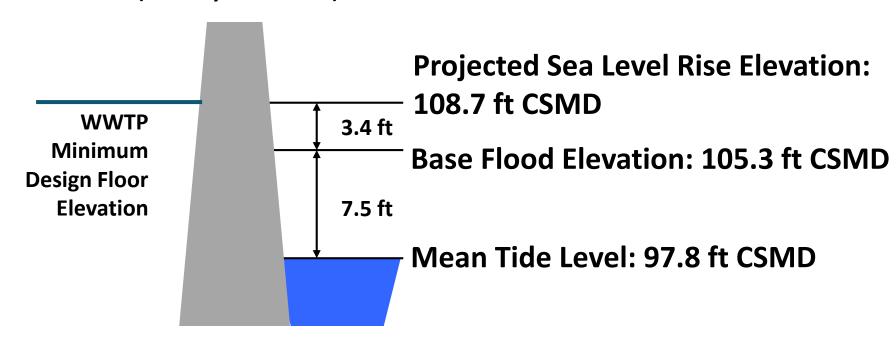


WWTP AND SEA LEVEL RISE

- Primary Level of Protection Bayfront Levee System
- Secondary Level of Protection Added resiliency
- 2018 State Guidance on Sea Level Rise
 - Year 2100 High Emissions Scenario
 - Likely Range / Low Risk Aversion = 66% probability that SLR will range between 2.4 and 3.4 ft

FLOOR ELEVATION & SEA LEVEL RISE

Levee System (Primary Protection)



FLOOD PROTECTION - CAPITAL IMPROVEMENT PROJECTS

- FEMA Accreditation
 - -Requirements: 2 feet of freeboard above 1% still water elevation / 100 year event
 - —Will Require Ongoing Levee Improvements as Sea Levels Rise
- Bayfront Levee System
 - —North Shoreview Levee and Pump Station Improvement Project, FEMA Accreditation



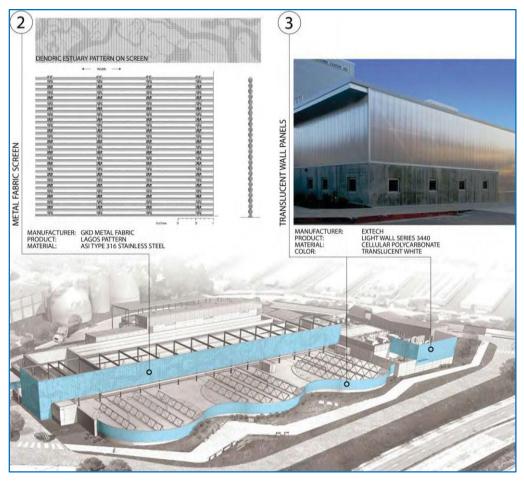
FLOOD AND SEA LEVEL RISE PROTECTION

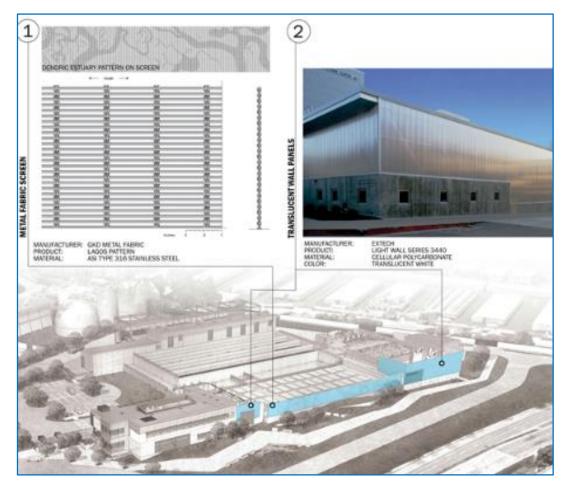
- 97.8 ft CSMD = Mean tide level
- 105.3 CSMD = 1% still water elevation /100 year event / base flood elevation
- 108.7 to 120 ft CSMD = Slab elevation of structures
- >10 ft of flood protection

CWP PROGRAMMATIC EIR

- Evaluated Alternatives and Impacts of all of the Clean Water Program components.
- Circulated for Public & Agency Review (October 2015 January 2016)
- Certified by the City Council on June 16, 2016.
- First Addendum Approved by City Council July 16, 2018

TREATMENT PROCESS STRUCTURE





ORIGINAL APPROVAL

PROJECT MODIFICATIONS