

# Item 1

## Review of 60-Percent Plans for the WRF Facility and Conveyance System

Morro Bay, CA  
November 20, 2019



# Recommendations



- Staff recommends the Water Reclamation Facility Citizens Advisory Committee (WRFCAC) receive and file these two interim deliverables





# WRF Facility

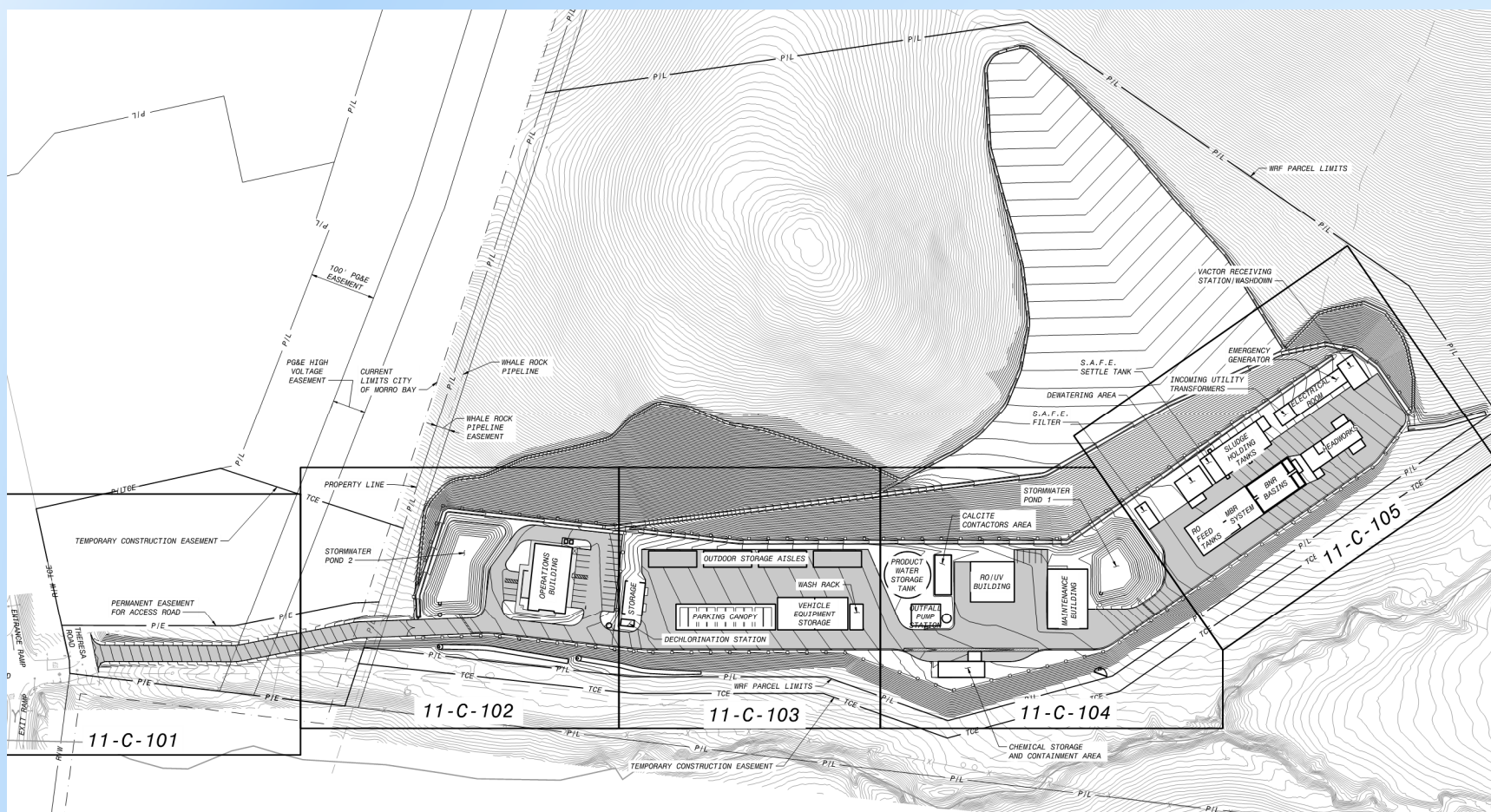


# Process overview

- Headworks
- Biological Nutrient Removal (BNR)/Membrane Bioreactor (MBR)
- Reverse Osmosis (RO)
- Ultraviolet Advanced Oxidation Process (UV AOP)
- Conditioning
- Product Water Storage
- Biosolids Dewatering

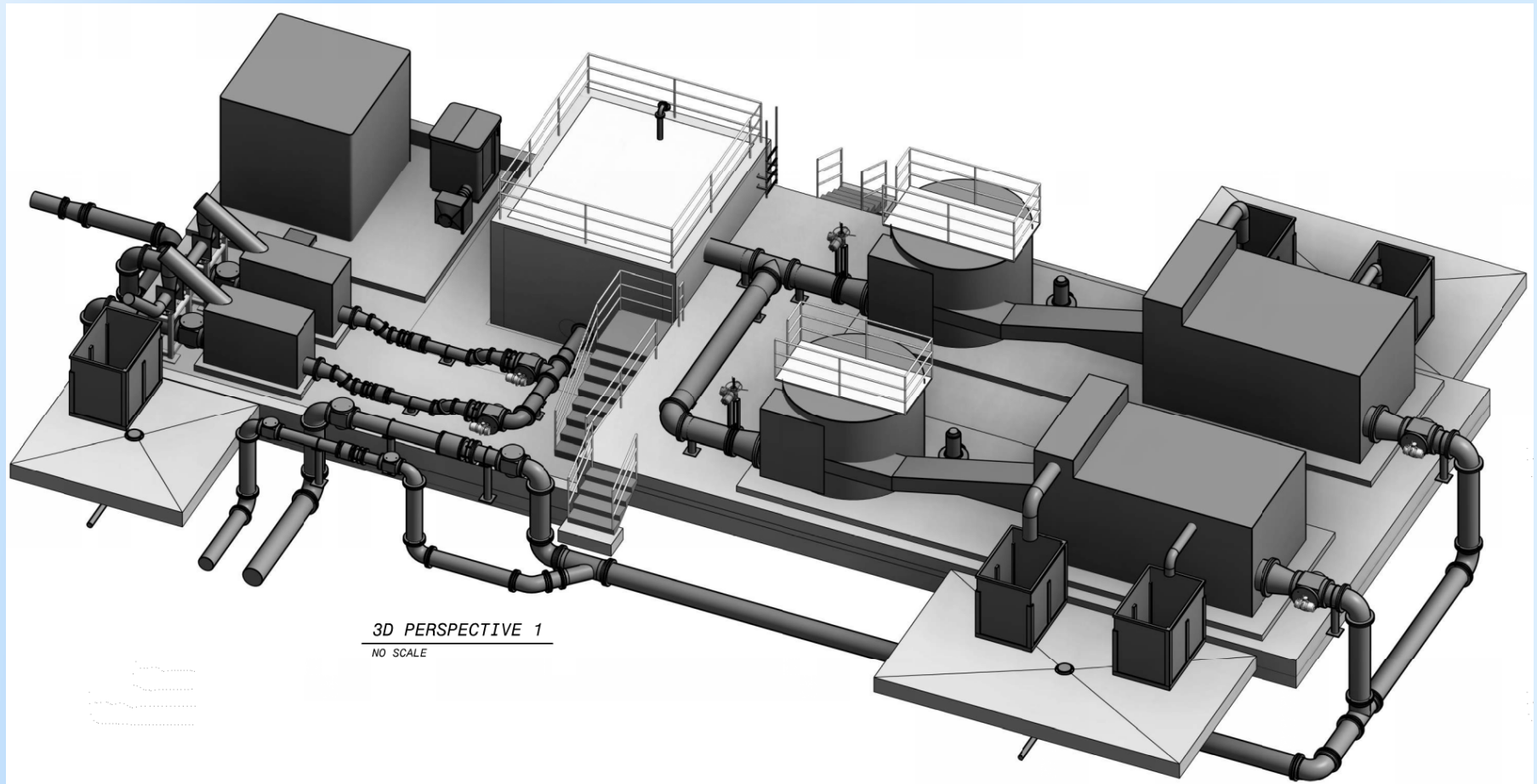


# WRF site plan



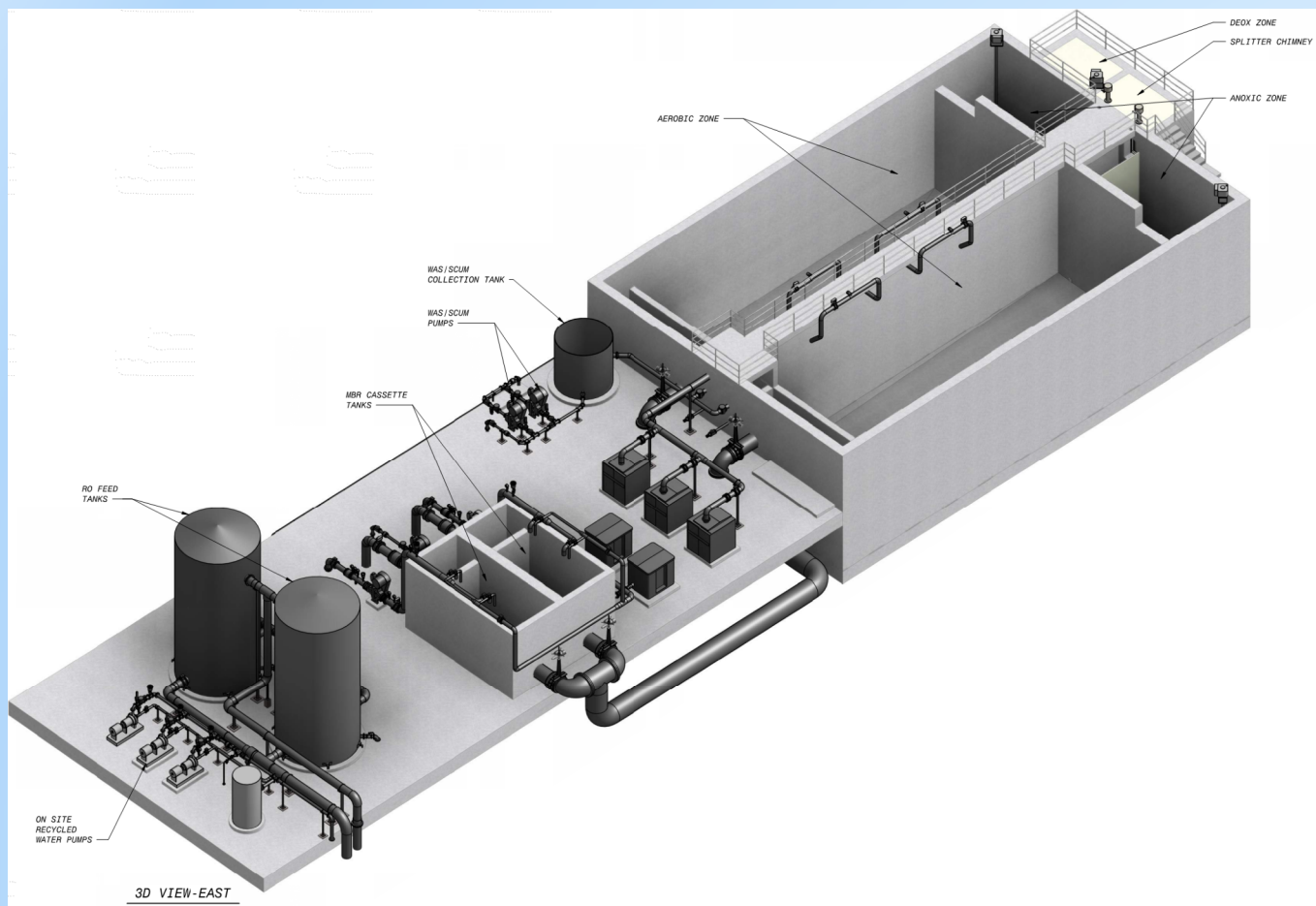


# Headworks



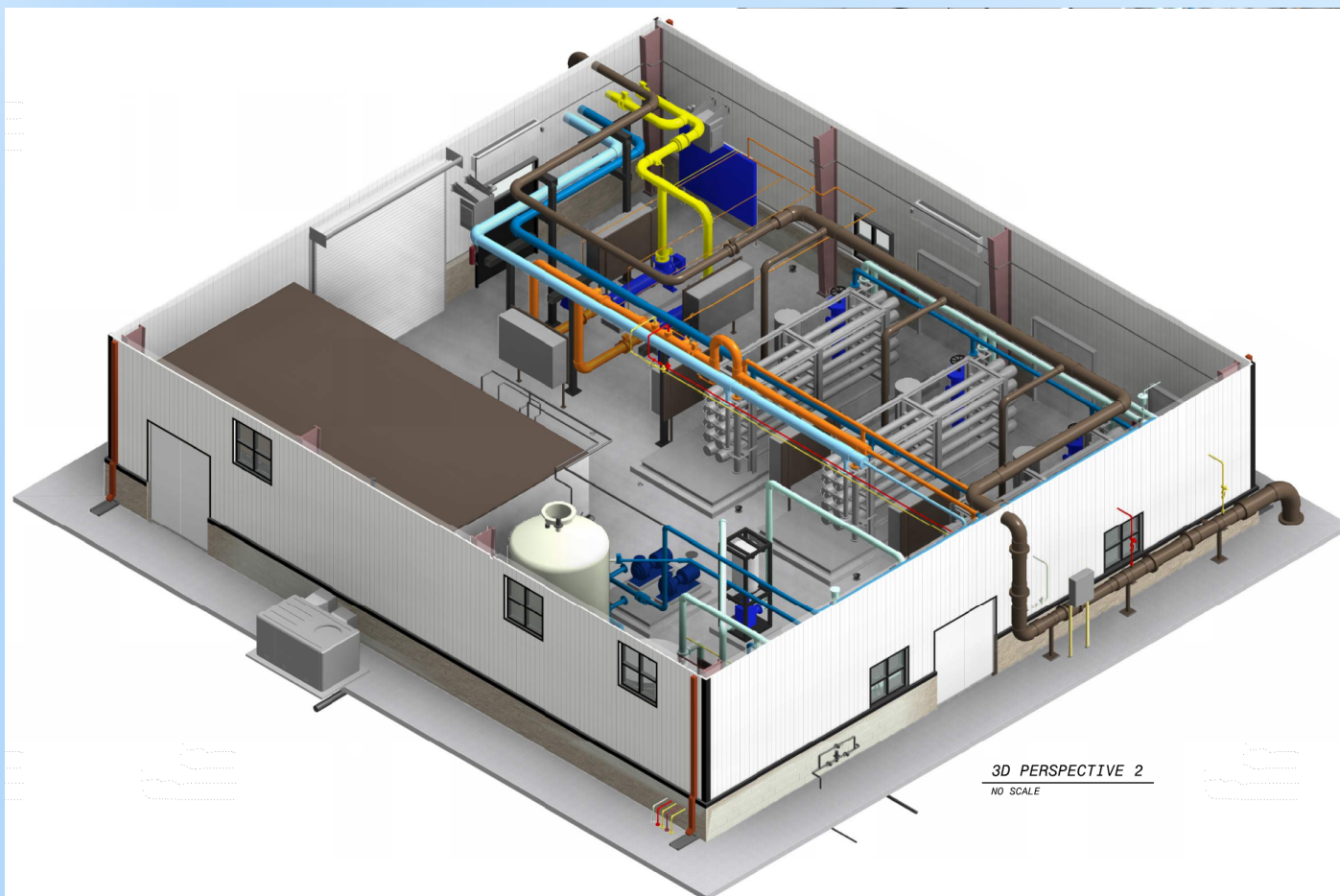


# BNR/MBR



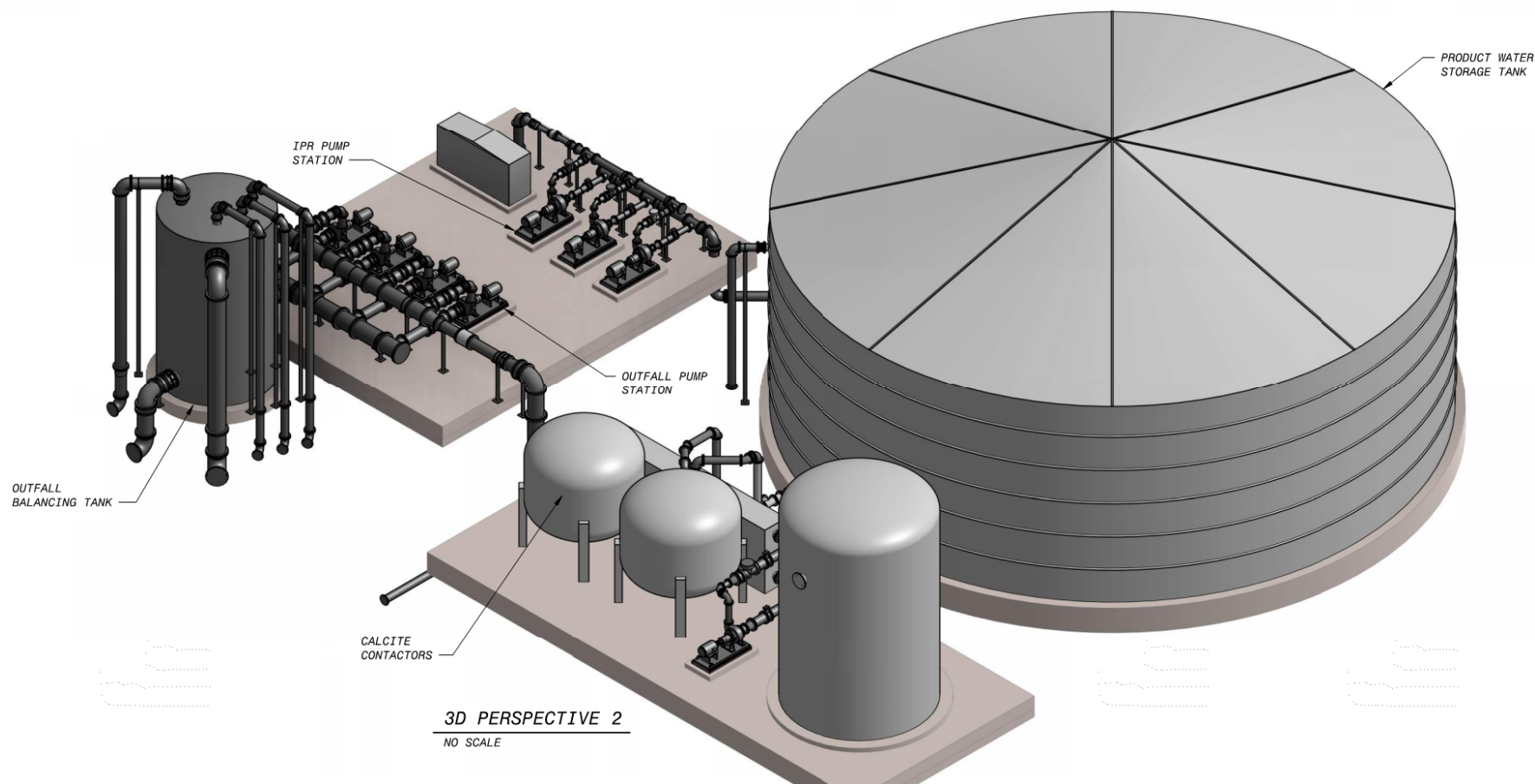


# RO/UV AOP



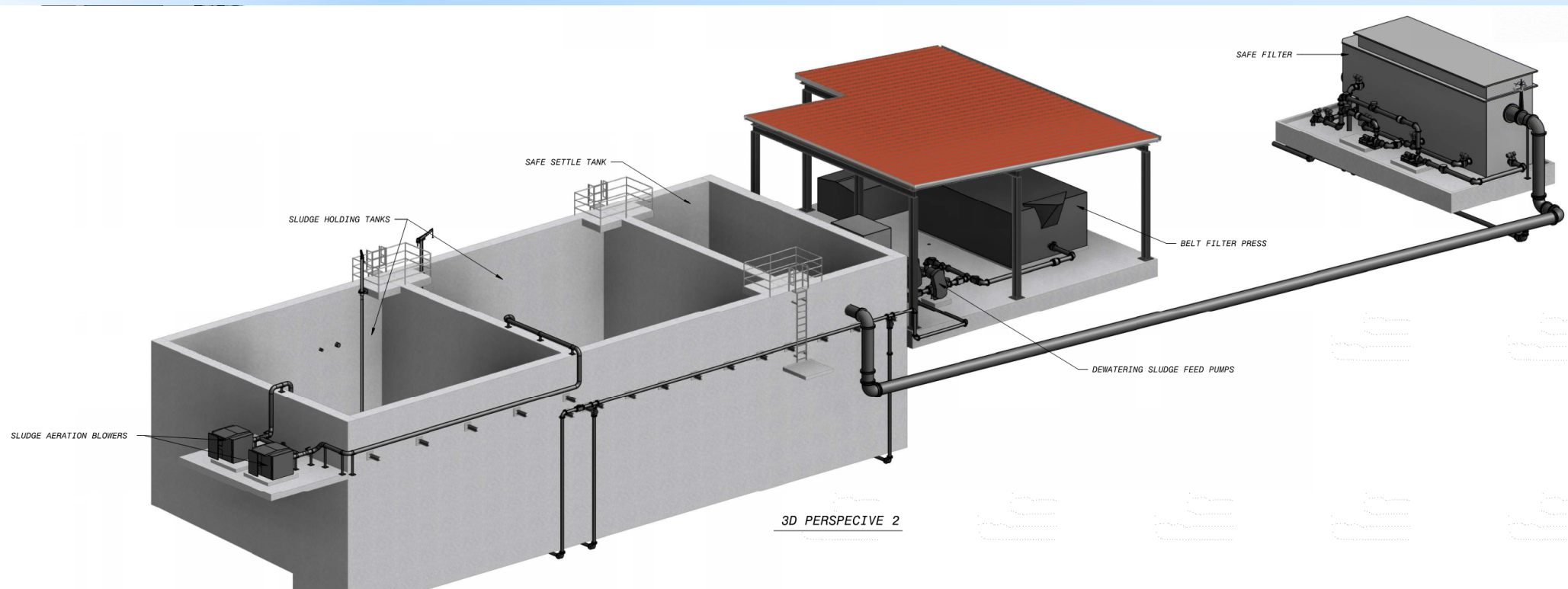


# Conditioning/Product Water Storage



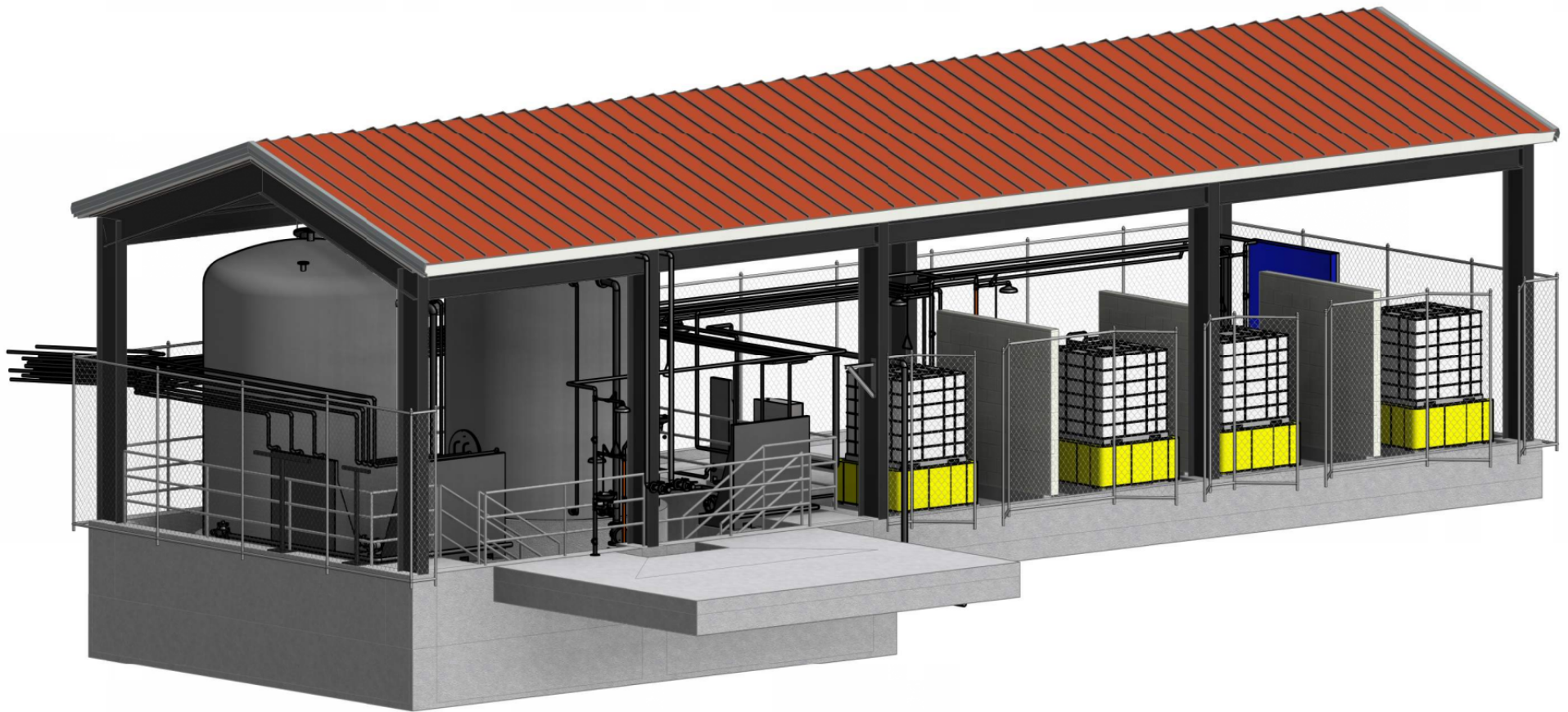


# Biosolids Storage/Dewatering





# Chemical Storage Facility





# Permitting status



Agency	Permit	Required	Timing	Current Activities
RWQCB	NDPES	Yes	Prior to operation of WRF	Preparation of ROWD
RWQCB	General Construction Storm Water Permit (Order 2009-0009-DWQ)	Yes	Prior to the start of WRF construction	Application submitted
RWQCB	General Storm Water Permit (Order 2014-0057-DWQ)	No	NA	NA
RWQCB	Section 401 Water Quality Certification	No	NA	NA
USACE	Section 404 Permit	No	NA	NA
CDFW	Streambed Alteration Permit (Section 1602	No	NA	NA
SLOAPCD	Naturally Occurring Asbestos	Yes	Prior to the start of WRF construction	Permit received
SLOAPCD	Authority to Construct/Permit to Operate	Yes	Prior to operation of WRF	NA
CCC	Coastal Development Permit	Yes	Prior to the start of WRF construction	Permit received
DDW	Title 22 Regulations	Yes	Prior to/following operation of WRF	Preparation of Engineering Report



# Property acquisition

- Tri-W property
  - Purchase agreement finalized
  - Currently in escrow
  - City has access to enter property and start construction
- Martz property
  - Right of entry finalized
  - City has access to enter property and start construction





# Conveyance Facilities



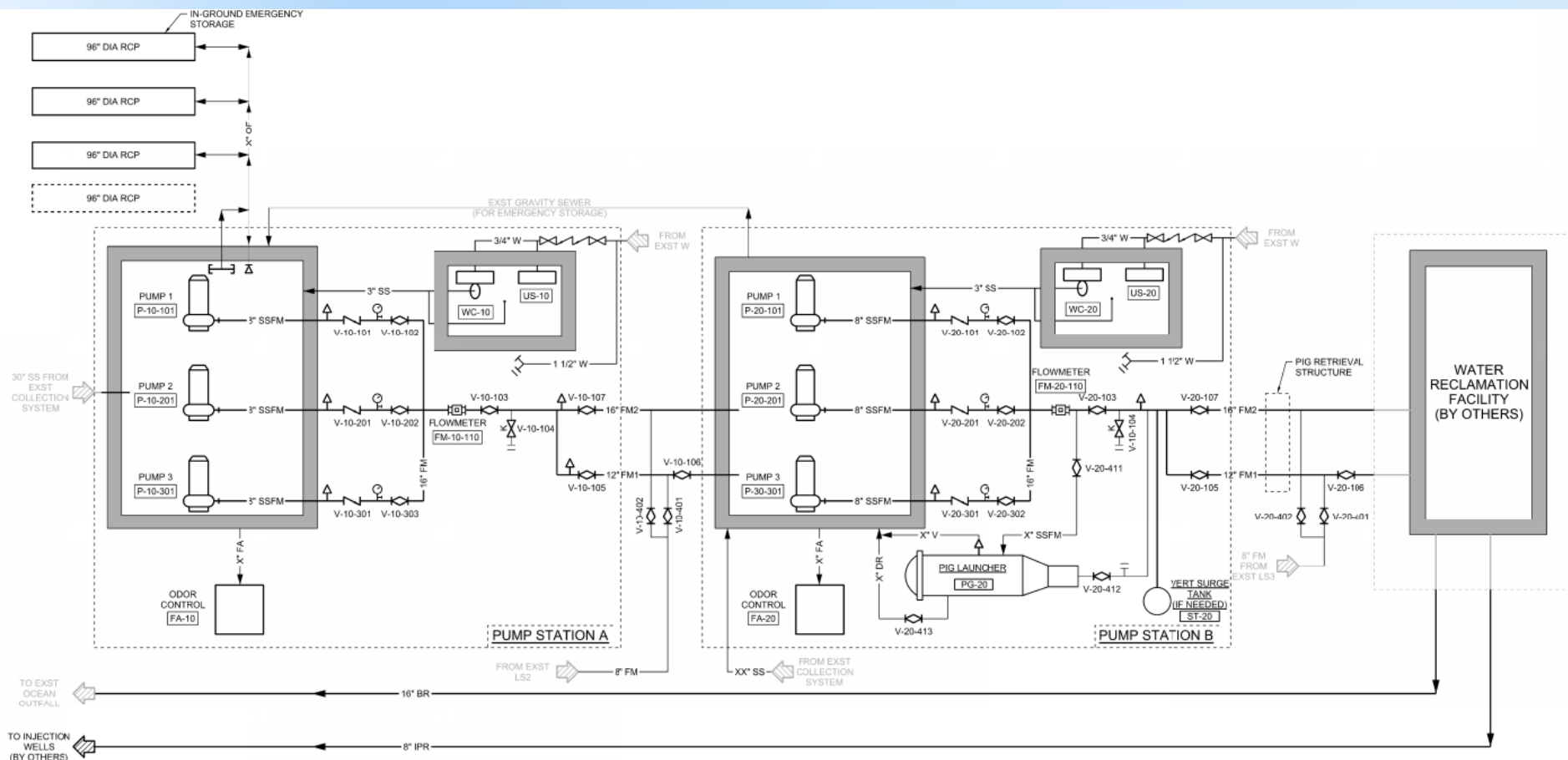
# Project component overview



- Pump Station A
- Pump Station B
- Conveyance pipelines

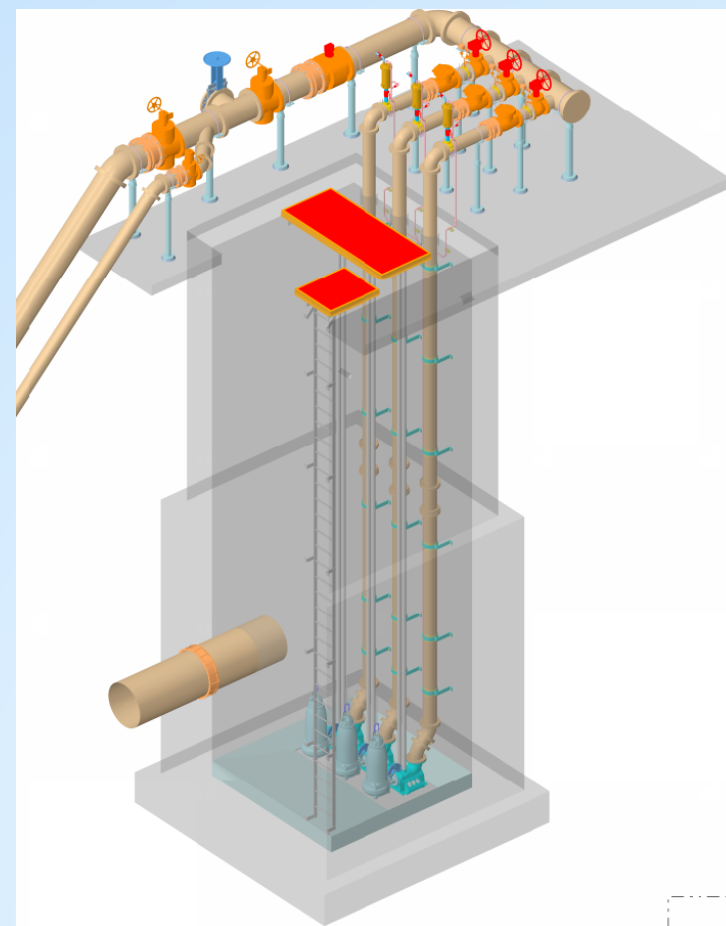
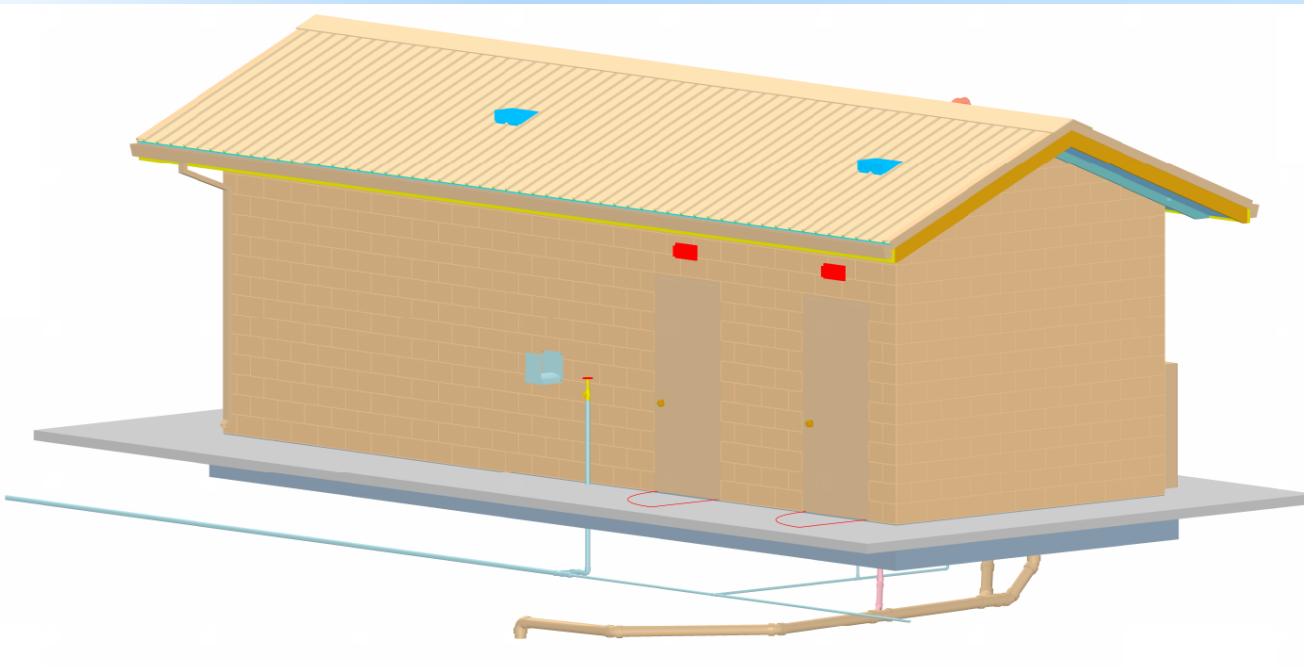


# WRF site plan



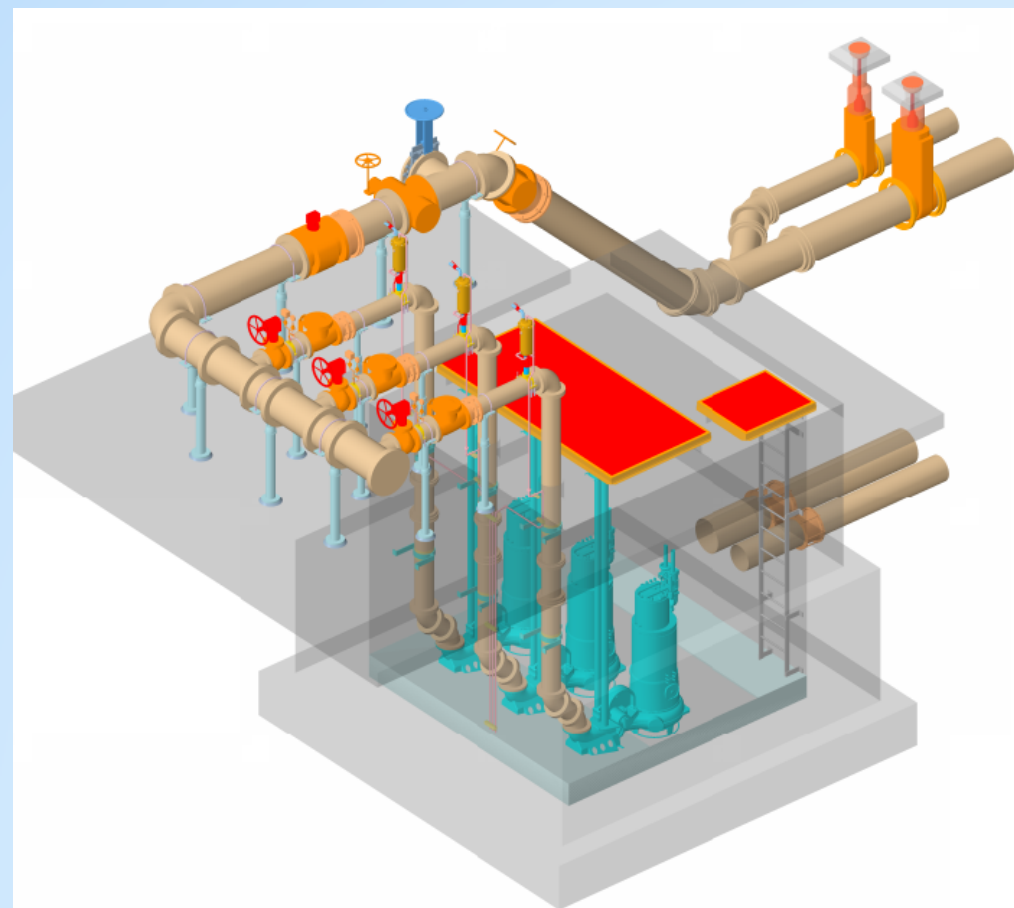
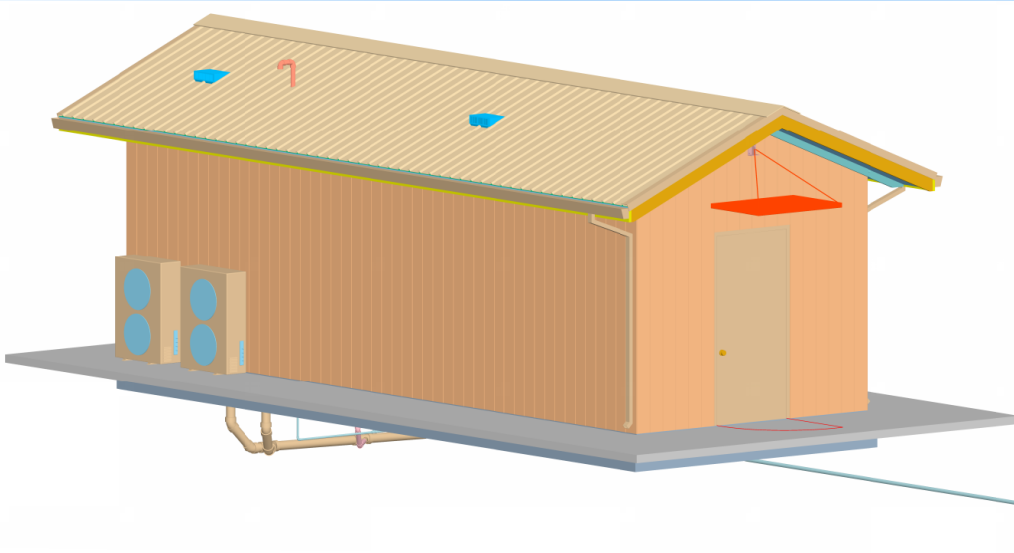


# Pump Station A





# Pump Station B





# Permitting status



Agency	Permit	Required	Timing	Current Activities
RWQCB	General Construction Storm Water Permit (Order 2009-0009-DWQ)	Yes	Prior to the start of Conveyance Facilities construction	NA
RWQCB	Section 401 Water Quality Certification	No	NA	NA
USACE	Section 404 Permit	No	NA	NA
CDFW	Streambed Alteration Permit (Section 1602	Yes	Prior to the start of Conveyance Facilities construction	NA
SLOAPCD	Authority to Construct/Permit to Operate	Yes	Prior to operation of the pump stations	NA
CCC	Coastal Development Permit	Yes	Prior to the start of Conveyance Facilities construction	Preparing special condition reports
Caltrans	Encroachment Permit	Yes	Prior to the start of Conveyance Facilities construction	Permit obtained for design-related field investigations



# Property acquisition

- **Vistra Energy**
  - Preparing appraisals for required easements
- **PG&E**
  - Preparing appraisals for required easements
  - Developing application for CPUC



# Recommendations



- Staff recommends the Water Reclamation Facility Citizens Advisory Committee (WRFCAC) receive and file these two interim deliverables





# Questions and Discussion