

# Sole Source for Primary Clarifier Covers

A-Side Primary Clarifiers  
Replacement at Plant No. 2,  
Project No. P2-98A

Kathy Millea, Director of Engineering  
Operations Committee  
July 1, 2020



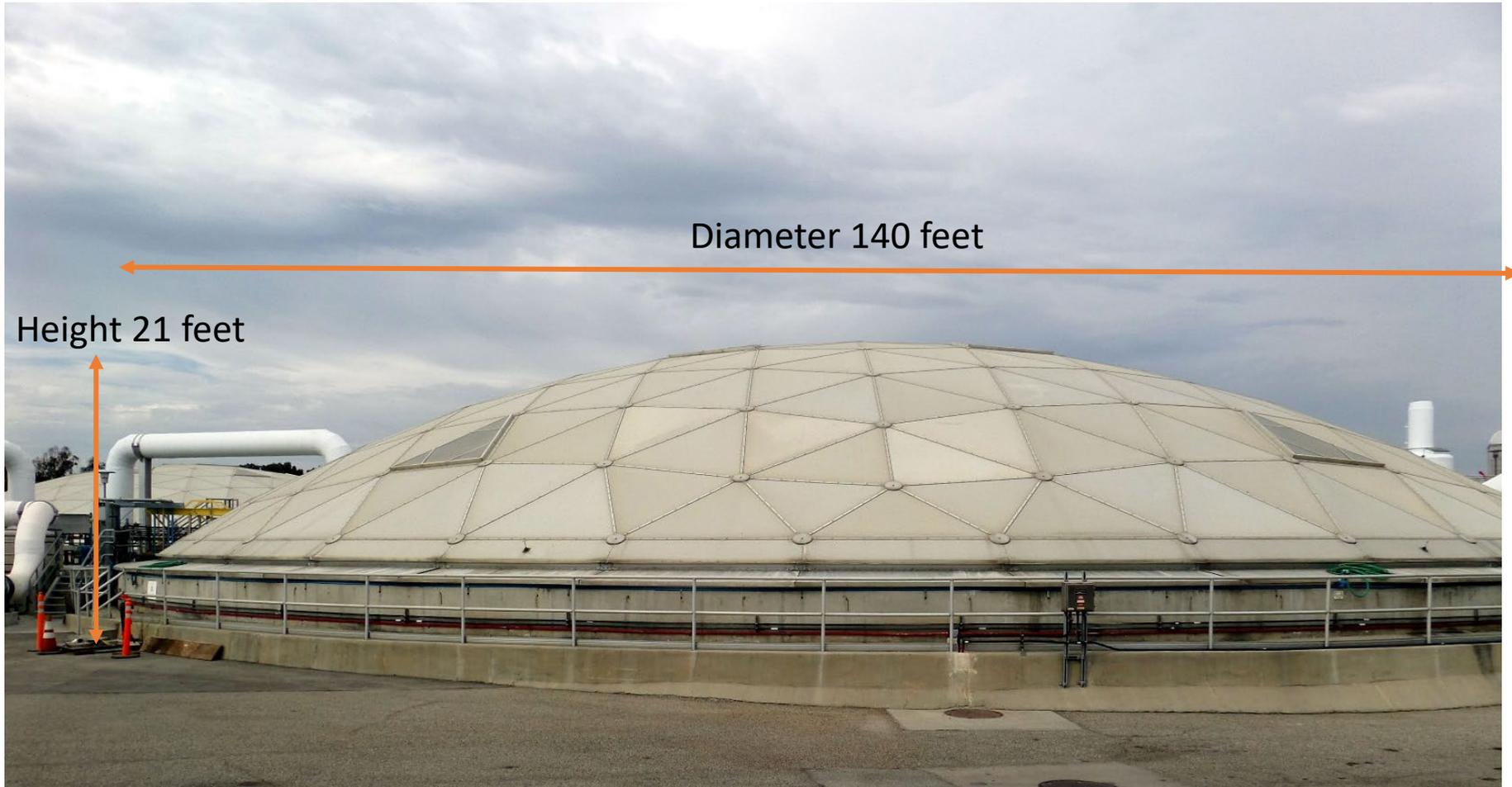
# A-Side Primary Clarifiers Replacement at Plant No. 2



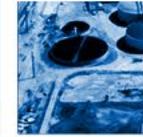
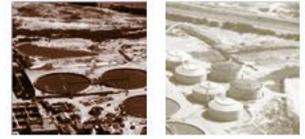
Construction Cost: \$132 million  
Advertise for Bids: December 2020  
Construction Duration: 5 years



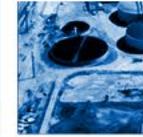
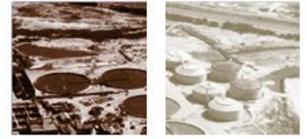
# Existing Clarifier Dome Cover



# Operator Access



# Operator Access





06/22/2020



# Cover Options



## Geodesic Dome (Conventional)



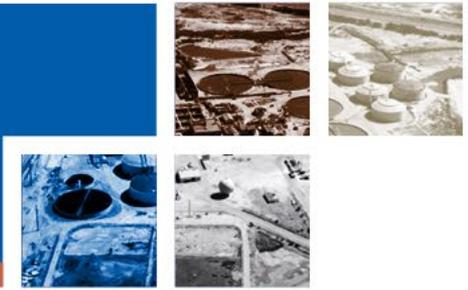
- Allows staff entry
- Larger ventilation rate = larger odor control facility

## Flat Truss Supported



- No staff entry
- Lower ventilation rate = smaller odor control facility
- Decreased worker exposure to gases or vapors
- Hinged panels are required

# California Site Visits



**City of Riverside  
Riverside RWQCP**



**Inland Empire Utilities Agency  
RP-4**



**Inland Empire Utilities Agency  
RP-5**



**Novato Sanitation District  
Novato Treatment Plant**



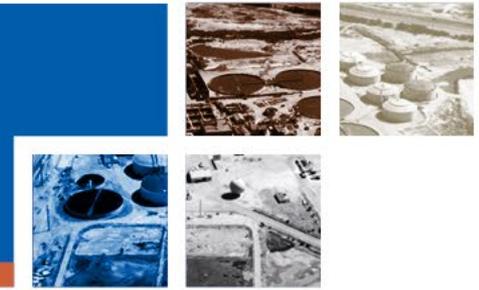
**Fairfield Suisun Sewer District  
Fairfield-Suisun WWTP**



**Hallsten Corporation**



# Cover Evaluation



- O&M activities and requirements
  - Operators' visual access to water surface
  - Ventilation rates with/without required entry
  - Longer equipment life outside enclosed space
- Visited other facilities
- Conclusion:
  - Flat covers offer \$52 million savings due to reduced ventilation
  - Flat covers must offer hinged panels for operator observation

# Sole Source Justification



- Request for Information sent to flat cover suppliers
- Only Hallsten offers 80-90% of panels to be hinged.
  - Hallsten has a proven, patented hinged panel.
  - One supplier only offers 20-30% of panels hinged
  - One supplier offers only raised hatch panels
  - Others require panels to be unscrewed and lifted
- \$5.3 million pricing commitment from Halsten. Verified as reasonable based on pricing of similar installations



# Hallsten Flat Cover System



# Recommended Action



Adopt Resolution No. OCSD 20-XX entitled, “A Resolution of the Board of Directors of the Orange County Sanitation District, making findings pursuant to Public Contract Code Section 3400 in support of the Sole Source Specification of Hallsten Corporation, manufacturer of Truss Supported Flat Aluminum Covers for A-Side Primary Clarifiers Replacement at Plant No. 2, Project No. P2-98A, as part of Primary Treatment Rehabilitation at Plant No. 2, Project No. P2-98”.

