



SEJPA Stormwater Capture and Reuse



Sunset Engineering



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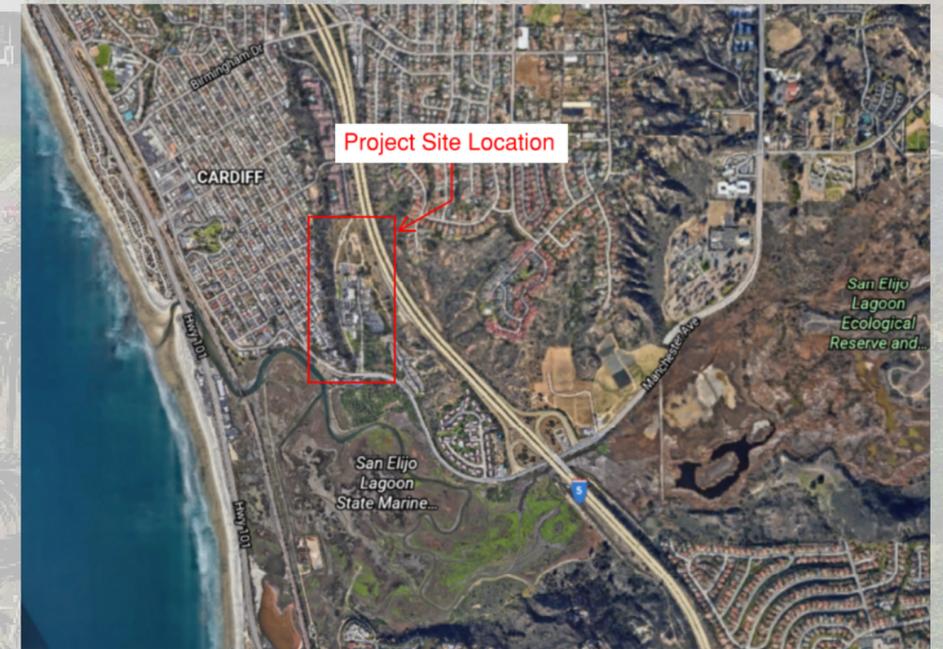
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CAD Lead/ Geotechnical Engineer

Alex Tang - Civil Engineer

Project Background

Sunset Engineering was contracted by the San Elijo Joint Powers Authority to develop and execute a storm water collection and reuse system in alliance with the on-site wastewater treatment plant. The water collected will be utilized as a potable source of water with the intention of servicing the surrounding community.

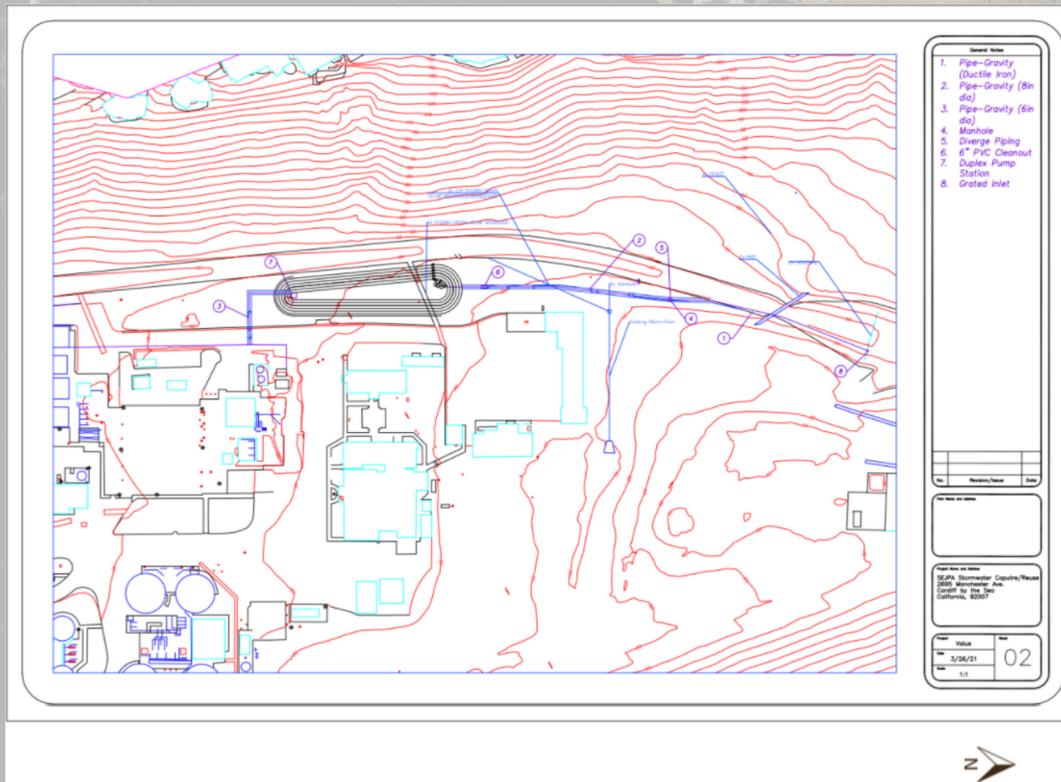
Site Location



The proposed site location will be at the San Elijo Joint Powers Authority wastewater treatment plant. SEJPA is located on Manchester Avenue, south of the I-5 freeway.

Proposed Design

The design includes the diversion of stormwater from the onsite flood channel to an earthen desilting basin for pretreatment before moving into the main facilities onsite for proper cleaning. The piping design we have chosen consists of 450 feet of 6x8 pipe and is driven by gravitational forces as we found this to be both efficient and cost effective. The piping will take our stormwater to one large oval earthen desilting basin with dimensions 200 feet long x 40 feet wide x 5 feet deep.



Cost Estimation

