

RADIAL GATES REHAB AND MODERNIZATION



PROJECT DESCRIPTION

The purpose of the project is to refurbish and modernize the 12 radial flood gates at the Putah Diversion Dam (PDD), modernize water measurement of the flood gates, and improve site access. The PDD which forms Lake Solano is the primary point of diversion into the Putah South Canal for agricultural and municipal use in Solano County, as well as regulating downstream flow to Lower Putah Creek. The PDD was constructed in the late 1950s and has been in service for over 60-years. The radial gates seals are currently leaking, the coating is cracking, water measurements are done manually and in need of an update to reflect current real-time practices, and the primary east-side vehicular access is in poor condition. The project is broken up into phases:

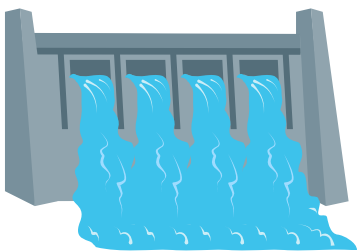
- 💧 Short-term radial gate improvements
- 💧 Access road improvements.
- 💧 Long-term radial gate improvements.

PROJECT BENEFITS

- 💧 Ability to manage reliable water distribution for Healthy Rivers and Landscapes Program.
- 💧 Water delivery to municipal and agricultural community within Solano County to 450,000 residents (U.S. Census Bureau, 2023).
- 💧 Increase the lifespan of existing infrastructure.
- 💧 Increase safety of operation and maintenance due to improved access.

JUSTIFICATION

Extends the lifetime of the aging infrastructure. Reduces the risk of catastrophic failures.

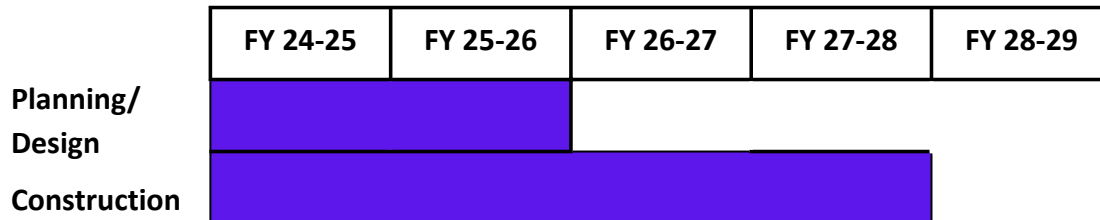


Solano County
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PROJECT TIMELINE & COSTS

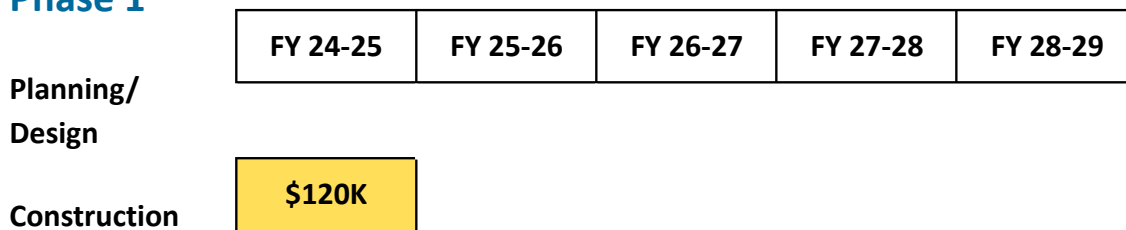
The Radial Gates Rehab and Modernization Project is anticipated to take 4 years and cost approximately \$4.9M.

Project Timeline

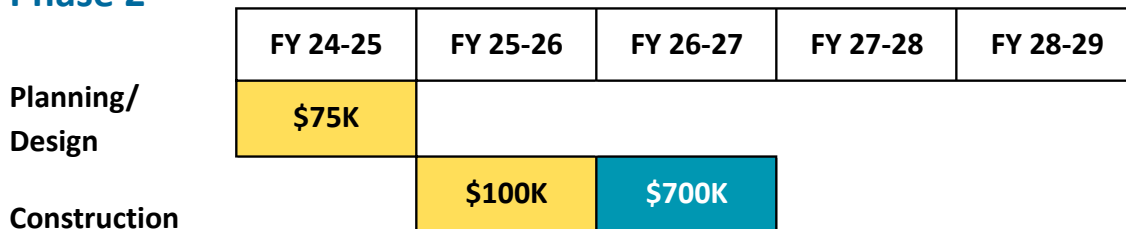


Project Costs

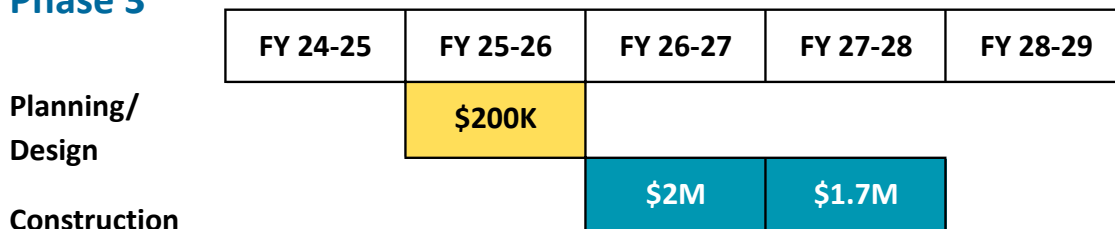
Phase 1



Phase 2



Phase 3



Local Cost Share



Anticipated Grant Funding



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