

Neptune Drive Shoreline Flood Protection

City Council
April 5, 2021



History:

1872: San Leandro incorporated

1949: California State legislature creates the Alameda County Flood Control and Water Conservation District (District) to build flood control infrastructure

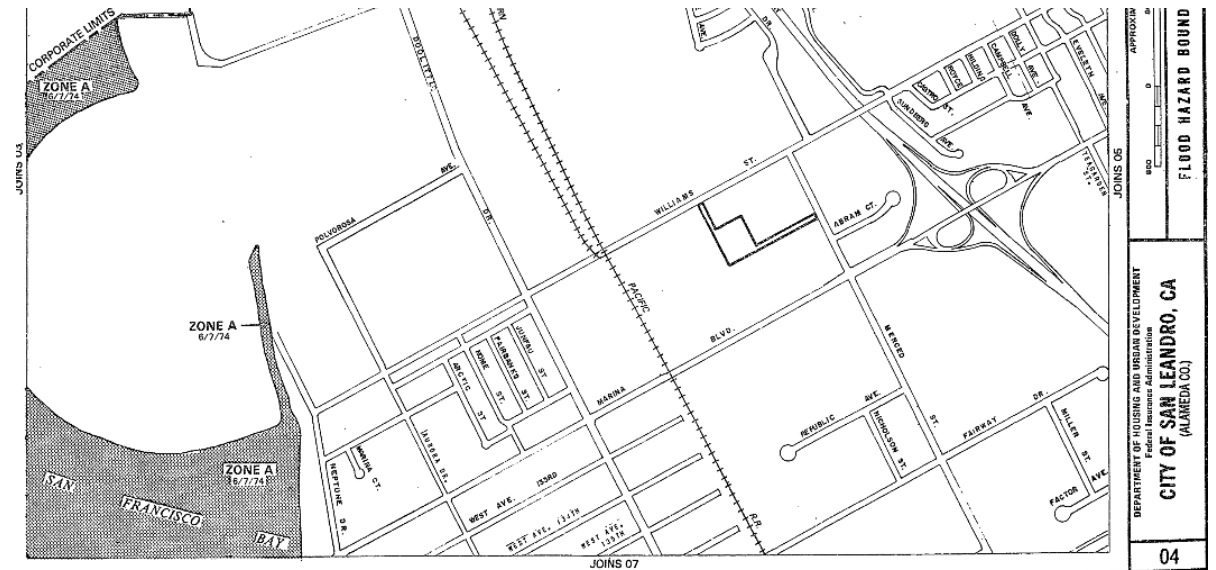
1969: Federal agency to address Emergency Management created (HUD).

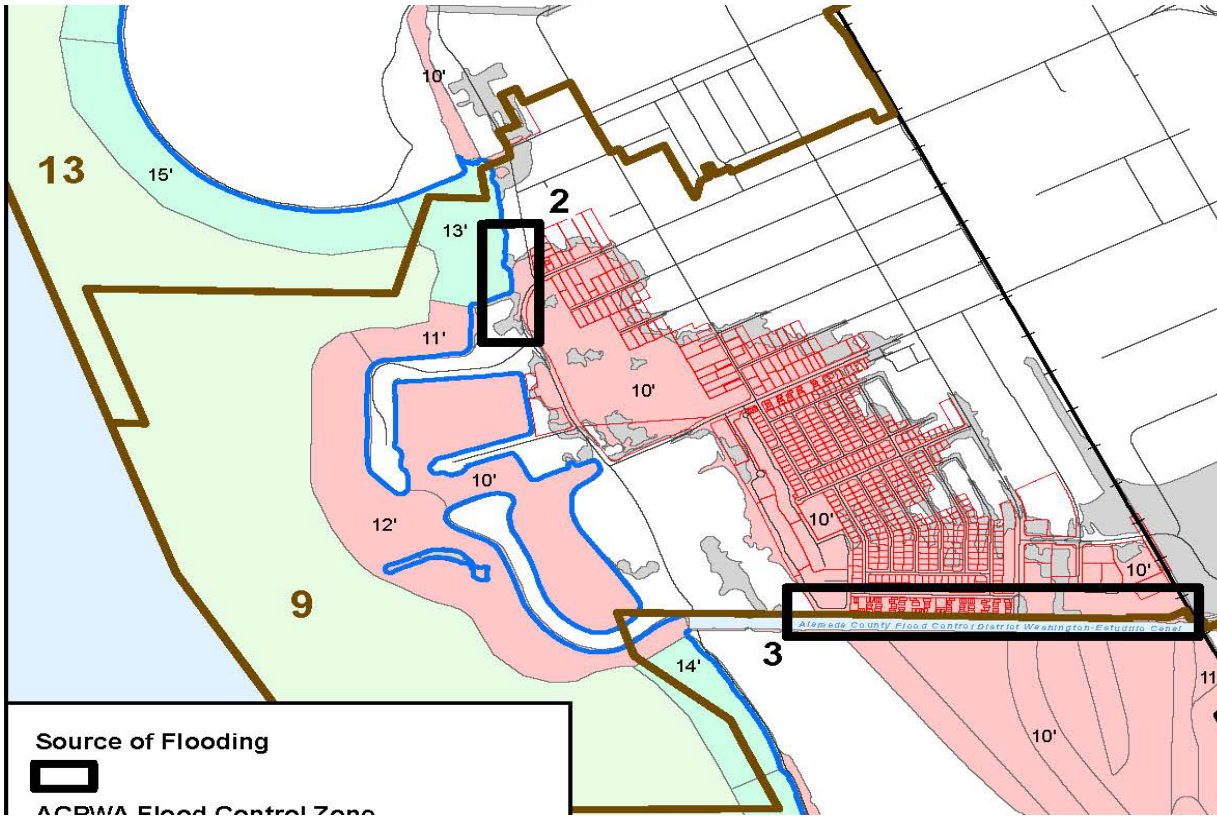
Circa 1970: Current flood control system is largely completed by District

1974: HUD publishes 1st Flood insurance rate map for San Leandro

1976: FEMA created, takes over emergency management

2018: FEMA adopts revised maps with higher flood risk for some areas.

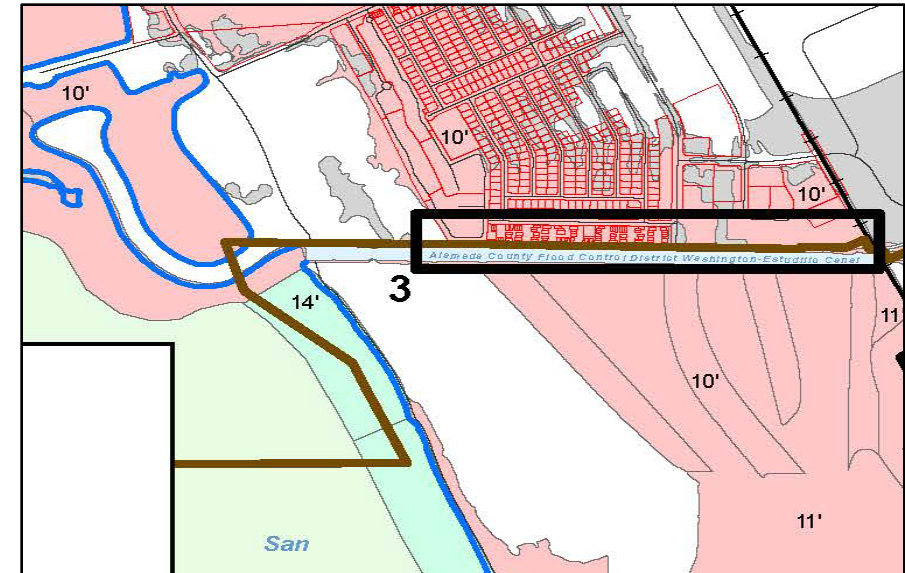




- FEMA surveyed the shoreline
- Draft maps issued 2014
- Increased risk of flooding for about 1000 parcels
- Two sources of water
- Maps adopted 12/21/2018.
- These maps do not consider sea level rise.

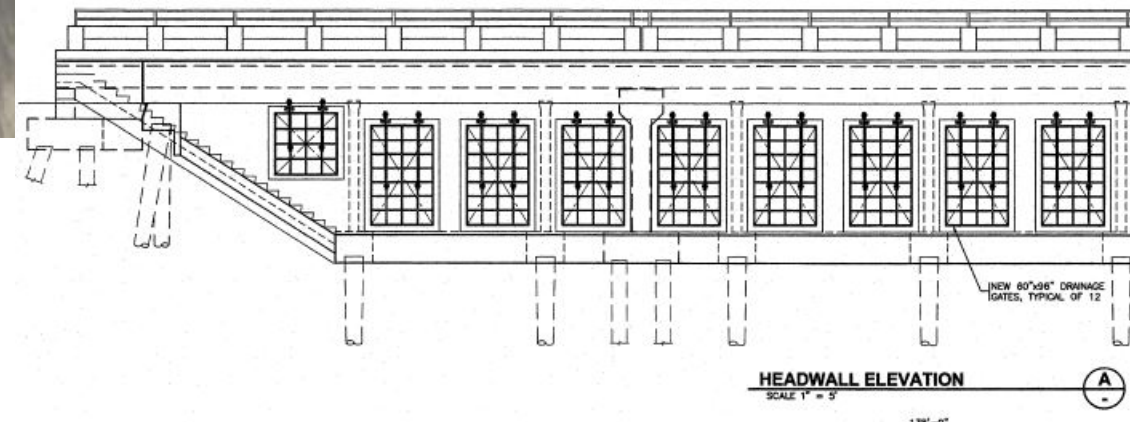
Point Source 3:

- Estudillo Canal, operated by the Alameda County Flood Control District (District)
- High tide water may cause storm water to release over the north bank and enter the neighborhood
- District needs around \$2.7M to complete the project.
- District is applying for a federal grant that covers 75% of eligible costs.
- Propose to ask affected property owners if they are willing to fund the shortfall on the canal project if the grant is denied.



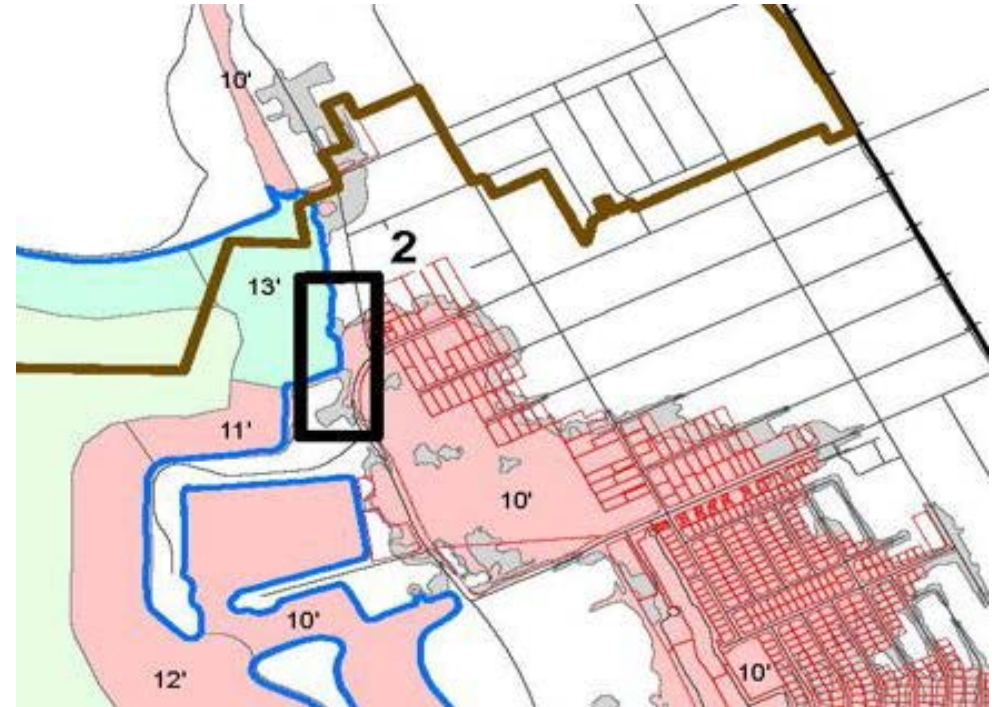


District project to reduce risk of flooding from Estudillo Canal



Point Source 2:

- Low area between bay and parcels on Neptune Dr. at Marina Blvd.
- The City has prepared a design for improvements and started outreach for formation of an assessment district to pay for the project.
- Flood Control District has asked to partner with us for a grant application. If the grant is awarded the City will commit to about \$1.1M for work done to date and matching funds.
- Propose to ask affected property owners if they are willing to fund the matching funds if the grant is awarded.
- Propose to ask affected property owners if they are willing to fund the entire project if the grant is denied.



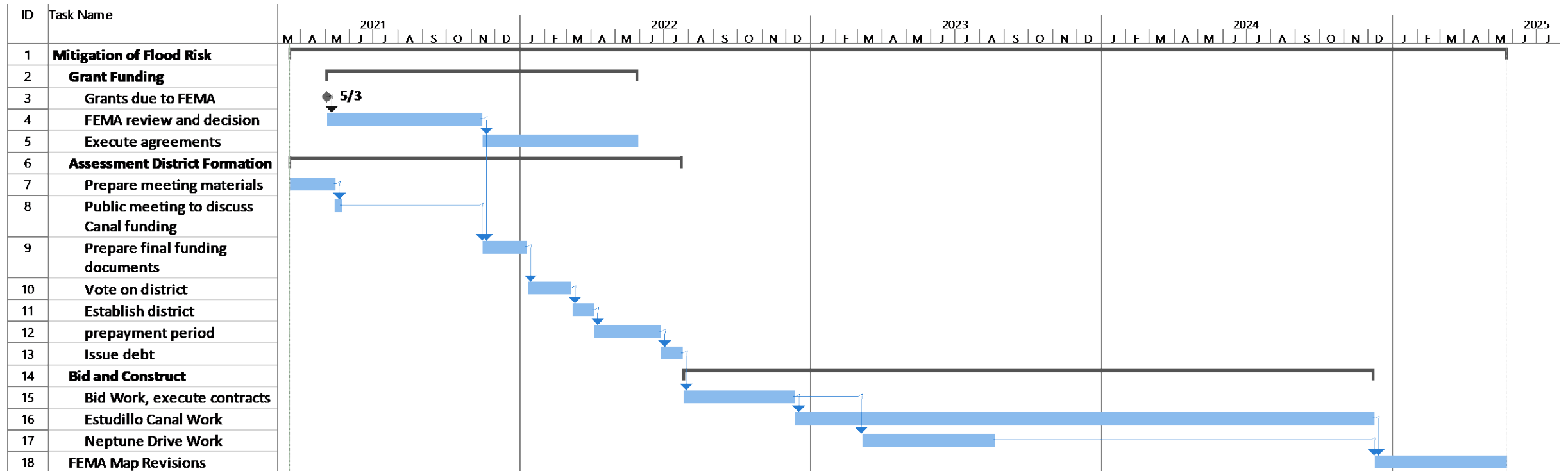


New, higher levee

This aerial photograph shows a coastal area with a body of water on the left. A new, higher levee, constructed from rocks, runs along the shoreline. To the right of the levee is a large, open field. Further right, there is a residential area with houses and a road. A flood wall over storm pipes is visible in the lower right portion of the image, near a road intersection.

Flood wall over storm pipes

Timeline





Questions?