

Bayfair, Peralta and South Pumping Plant Project

San Leandro City Council Meeting

January 19, 2021

Agenda

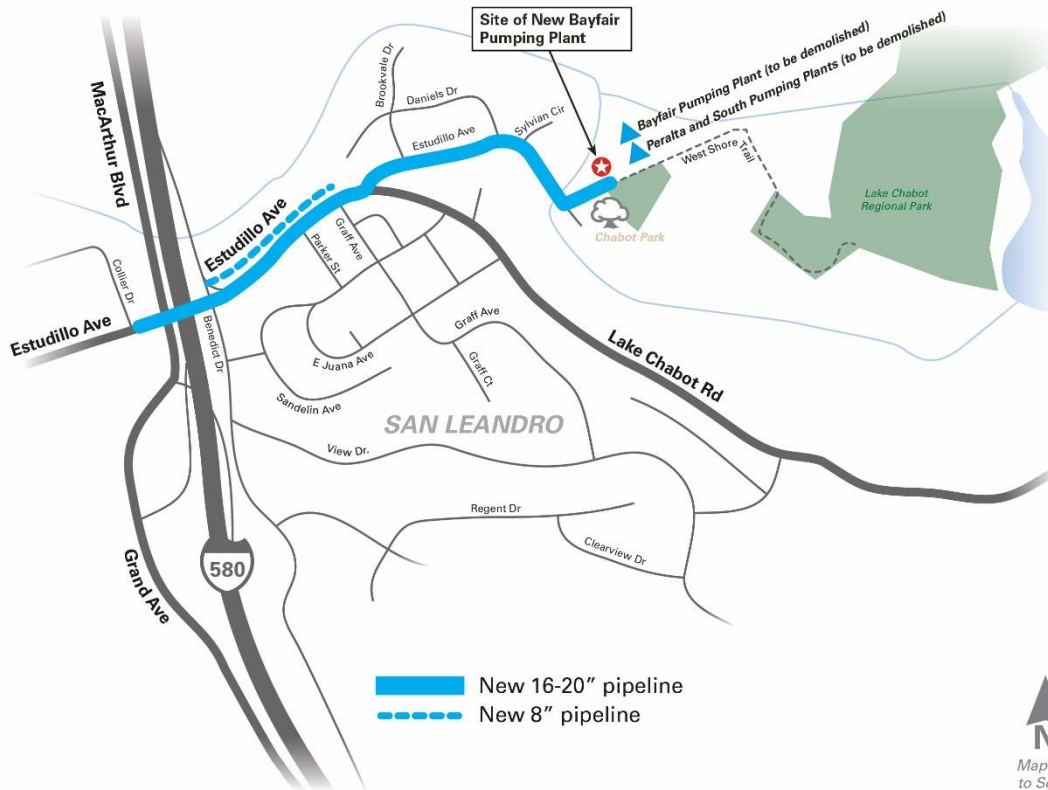


- Project overview, purpose and scope
- Work performed to date
- Remaining work and schedule
- Questions

Project Overview



BAYFAIR, PERALTA AND SOUTH PUMPING PLANT PROJECT San Leandro, CA



- Replace Bayfair PP
- Replace a half-mile of pipeline on Estudillo Ave
- Demolish Bayfair, Peralta, South PPs

Project Purpose



- Upgrade aging infrastructure
- Improve seismic resiliency
- Improve water service reliability and ease of future maintenance

Project Purpose – Pumping Plant Replacement



- Sitting on the Hayward Fault zone
- Replace it before a catastrophic failure or is inoperable after a seismic event
- 52 years old pumping plant
- Outdated, unreliable, and unsafe equipment
- Costly to maintain
- This pumping plant has served its useful life



Pumping Plants

Project Purpose – Pipeline Replacement



- Replace it before a catastrophic failure
- 91-year-old welded steel pipe 5 pipe breaks in 2015, mostly due to widespread external corrosion
- More breaks are likely
- This section of pipe has served its useful life



Pipeline

Project Purpose

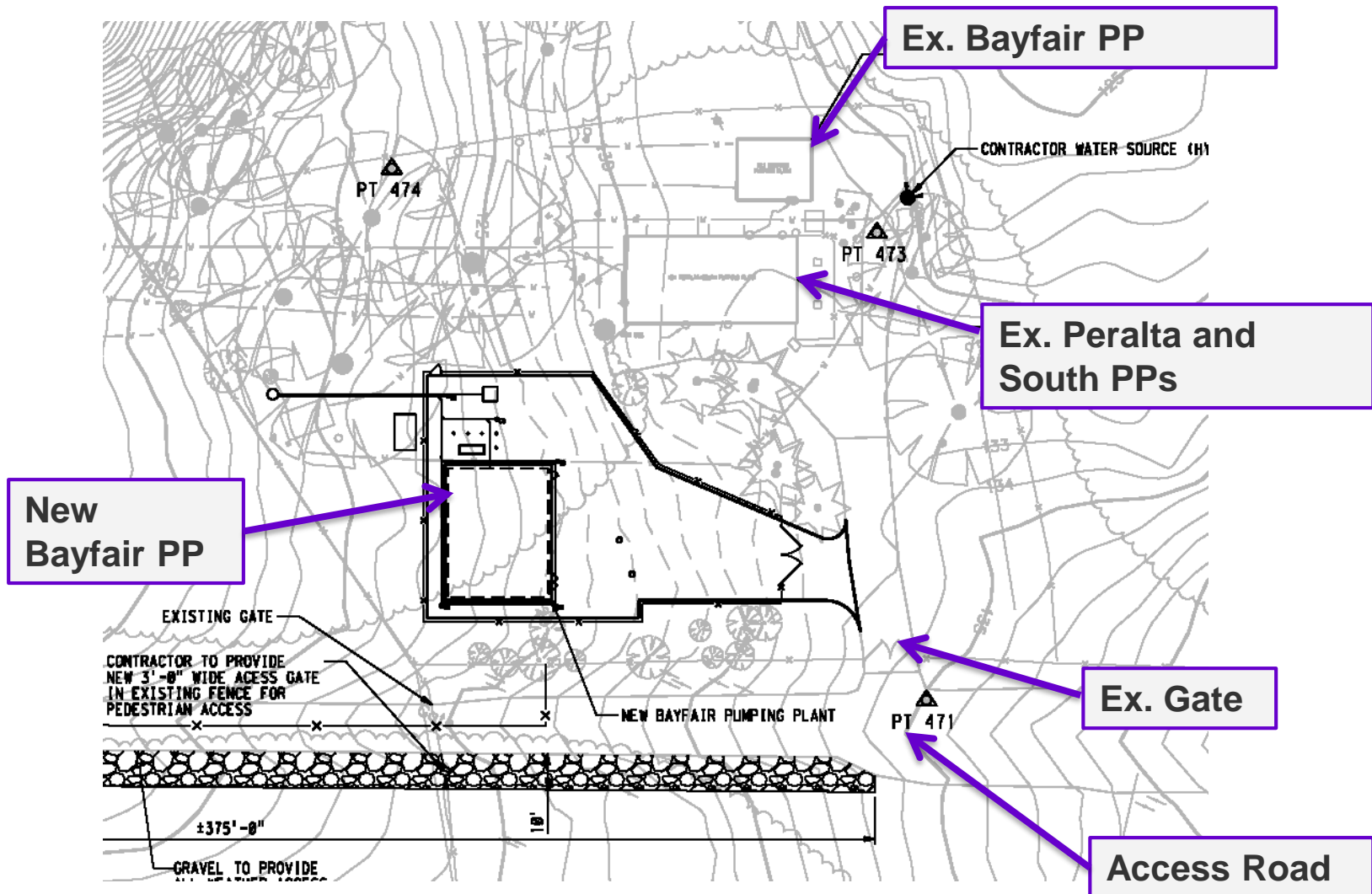


Benefits:

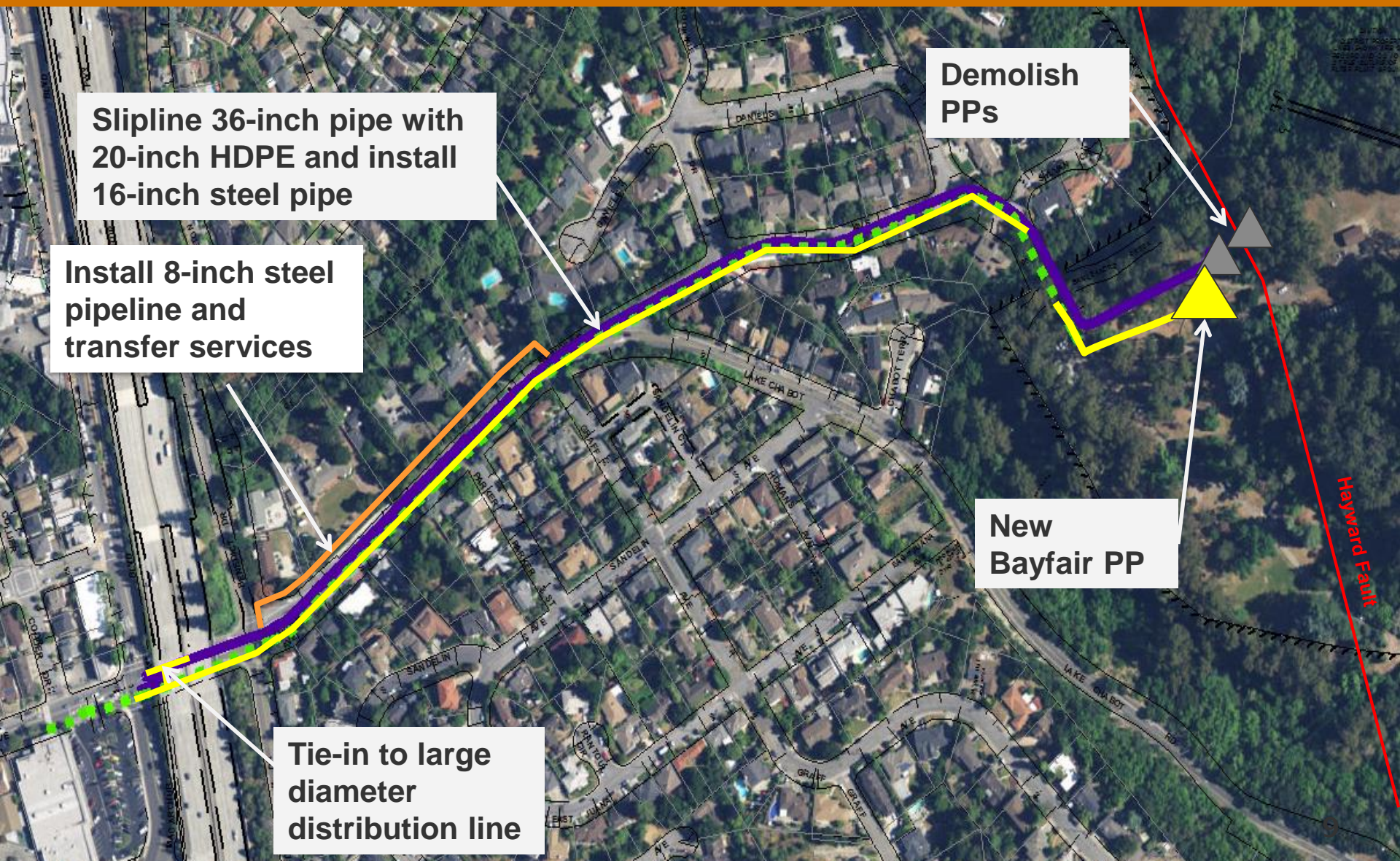
- Reliability
 - Maintain fire flow for the area
 - 50+ customers are directly affected by this section of pipe
 - Future breaks and outages will be less likely
- Increased Capacity



Project Scope



Project Scope



Demolish PPs

Slipline 36-inch pipe with 20-inch HDPE and install 16-inch steel pipe

Install 8-inch steel pipeline and transfer services

New Bayfair PP

Tie-in to large diameter distribution line

Hayward Fault

Work Performed to Date



- Partial construction of the new Bayfair PP structure in Chabot Park and partial completion of interior mechanical and electrical work



Work Performed to Date



Bayfair Pumping Plant

Work Performed to Date



- Installation of all pipelines on Estudillo Ave and Chabot Park



Work Performed to Date



Work Performed to Date



- Major tie-in to large diameter pipeline on Estudillo Ave and MacArthur Blvd



Work Performed to Date



Work Performed to Date



Why does one location require multiple excavations/access times?

- Underground work requires investigative excavations
- Underground work involves phasing, requiring access at different times
- Multiple pipeline tie-ins or abandonments require multiple excavations or access
- Contractor minimizes number of excavation/access events because this is more efficient

Remaining Work



- Completion of Bayfair PP in Chabot Park, and the old pumping plant demolition
- Pipeline tie-ins in Chabot Park
- Abandonment of pipeline on Estudillo Ave
- Pavement restoration and striping

Remaining Work Schedule



- Estudillo Ave pipeline work complete by end of March 2021
- Estudillo Ave pavement restoration by the end of April 2021, weather permitting
- Completion of Bayfair Pumping Plant and pipeline tie-ins by June 2021
- Chabot Park site restoration and demobilization by August 2021

Questions?

