



San Francisco
**Water
Power
Sewer**

Services of the San Francisco
Public Utilities Commission

**SEWER
SYSTEM**

IMPROVEMENT PROGRAM
Grey. Green. Clean.

10/2/2021

Sewer System Improvement Program

Westside Upgrades to Your Sewer System

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- **THE SFPUC AND SSIP**
- **WESTSIDE PUMP STATION RELIABILITY IMPROVEMENTS PROJECT**
- **OCEAN BEACH CLIMATE CHANGE ADAPTATION PROJECT**
- **WAWONA AND VICENTE STREETS STORMWATER AND WATER MAIN IMPROVEMENTS**
- **GREAT HIGHWAY SEWER CLEANING**
- **Q&A**

San Francisco Public Utilities Commission

Water



*Delivering high quality
water every day*

Power



*Generating clean energy
for vital city services*

Sewer



*Protecting public health
and the environment*

Sewer System Improvement Program (SSIP)

Grey



Green



Clean



*System and Seismic
Reliability & Redundancy*

*Innovative Stormwater
Management Solutions*

*Protecting public health
& the environment*



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WESTSIDE PUMP STATION RELIABILITY IMPROVEMENTS PROJECT

Sewer System: Westside Watershed Overview

The Westside Pump Station (WSS):


- Receives dry and wet weather flow from the western side of the City
- Conveys dry and wet weather flow to Oceanside Plant (OSP) for treatment.
- WSS bar screens are first point in collection system where coarse solids are removed.



WSS Reliability Improvements

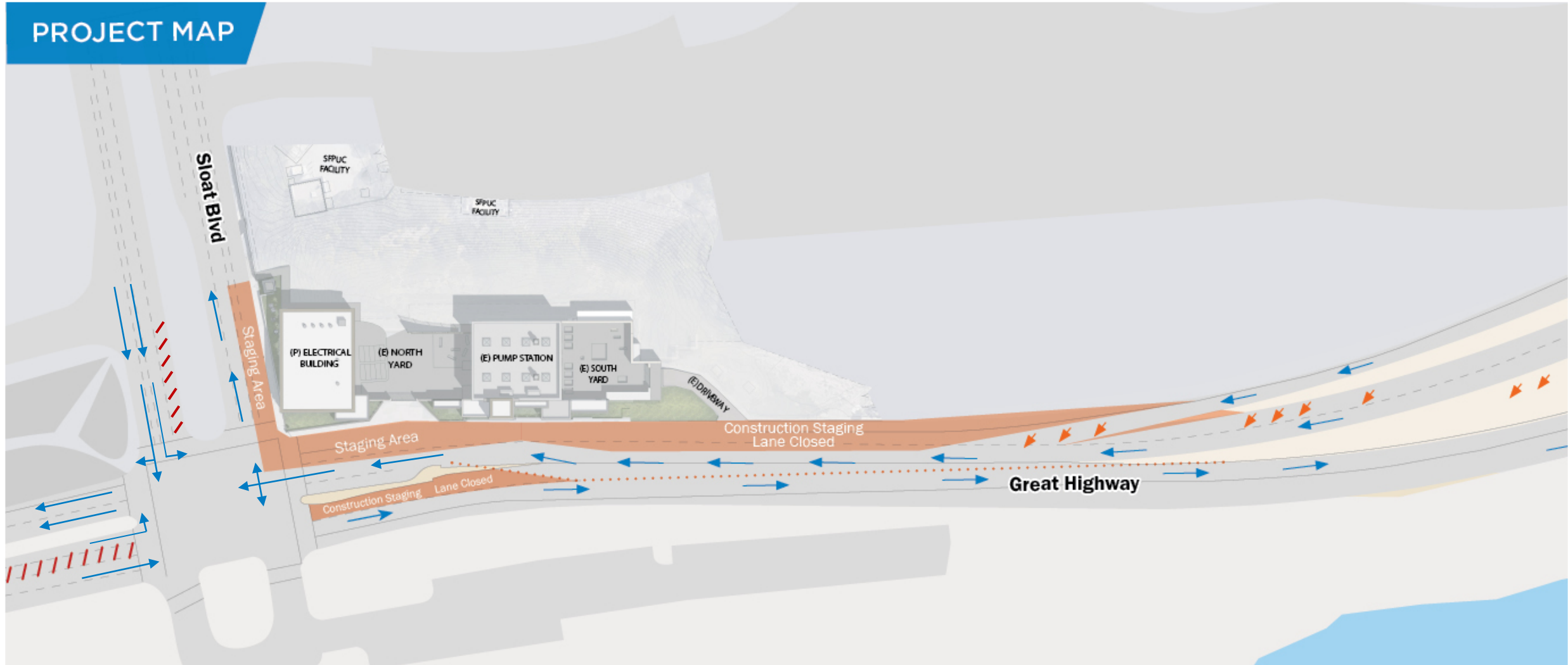
Facility Needs

- **Main Wet Weather Pumps:** Lack of redundancy, reduced efficiency
- **Bar Screens:** Lack of redundancy, frequent repair, inefficient screenings disposal process
- **Discharge Force Main Improvements:** Lack of flow capacity / reliability / redundancy
- **Electrical Power:** Single feed from PG&E is prone to outages and power capacity is limited
- **Ventilation System Improvements:** Odor control system is unused, ventilation fans require frequent repair



Bar screens remove debris from wastewater before treatment

WSS Reliability Improvements



WSS Reliability Improvements

Estimated Construction Schedule

2021	2022	2023	2024
[Green bar indicating construction period from Spring 2021 to Winter 2024]			

TARGET START SPRING 2021 – WINTER 2024
(SUBJECT TO CHANGE)





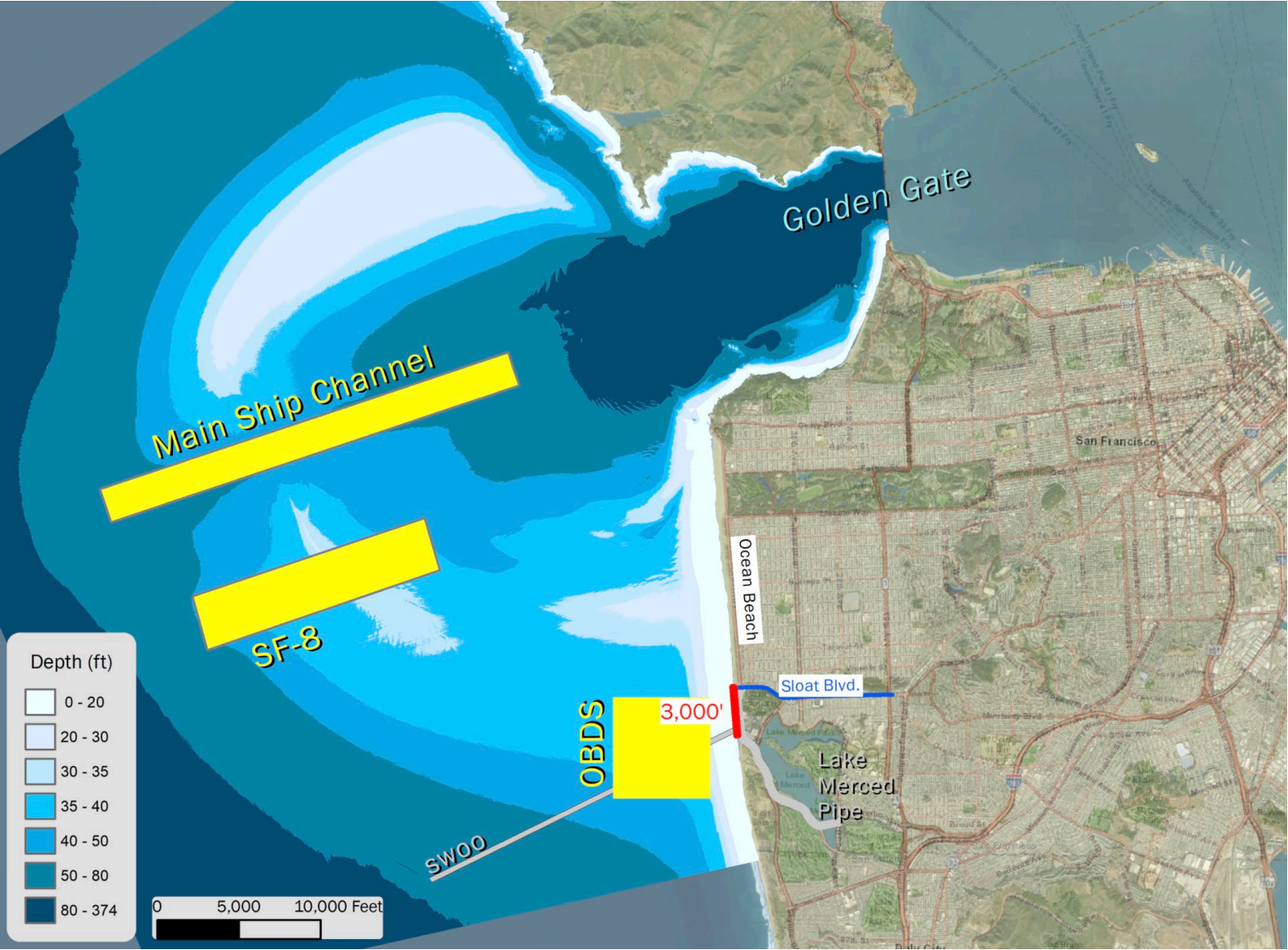
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OCEAN BEACH CLIMATE CHANGE ADAPTATION PROJECT

Coastline Conditions

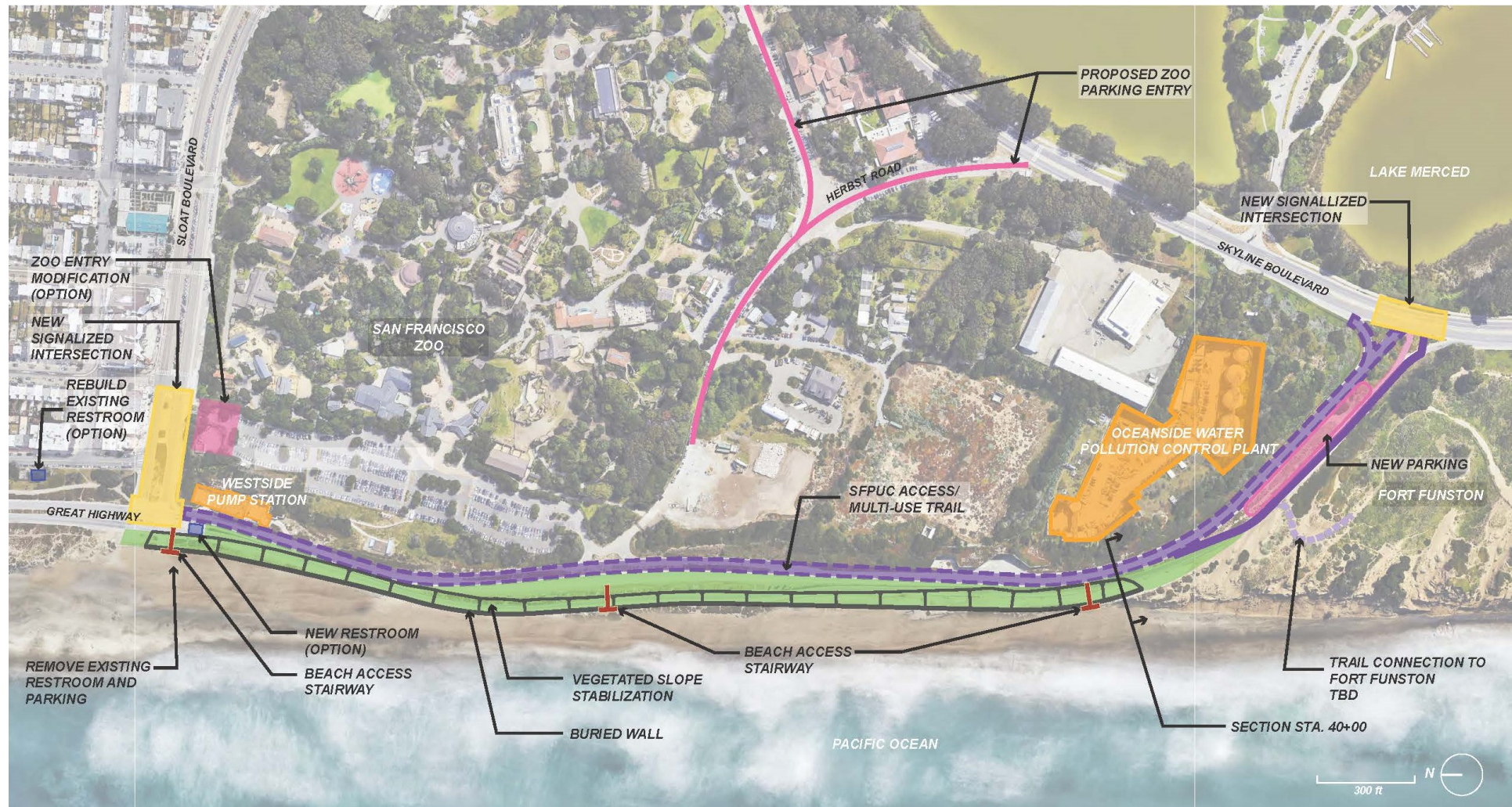


Short Term Phase Sand Placement

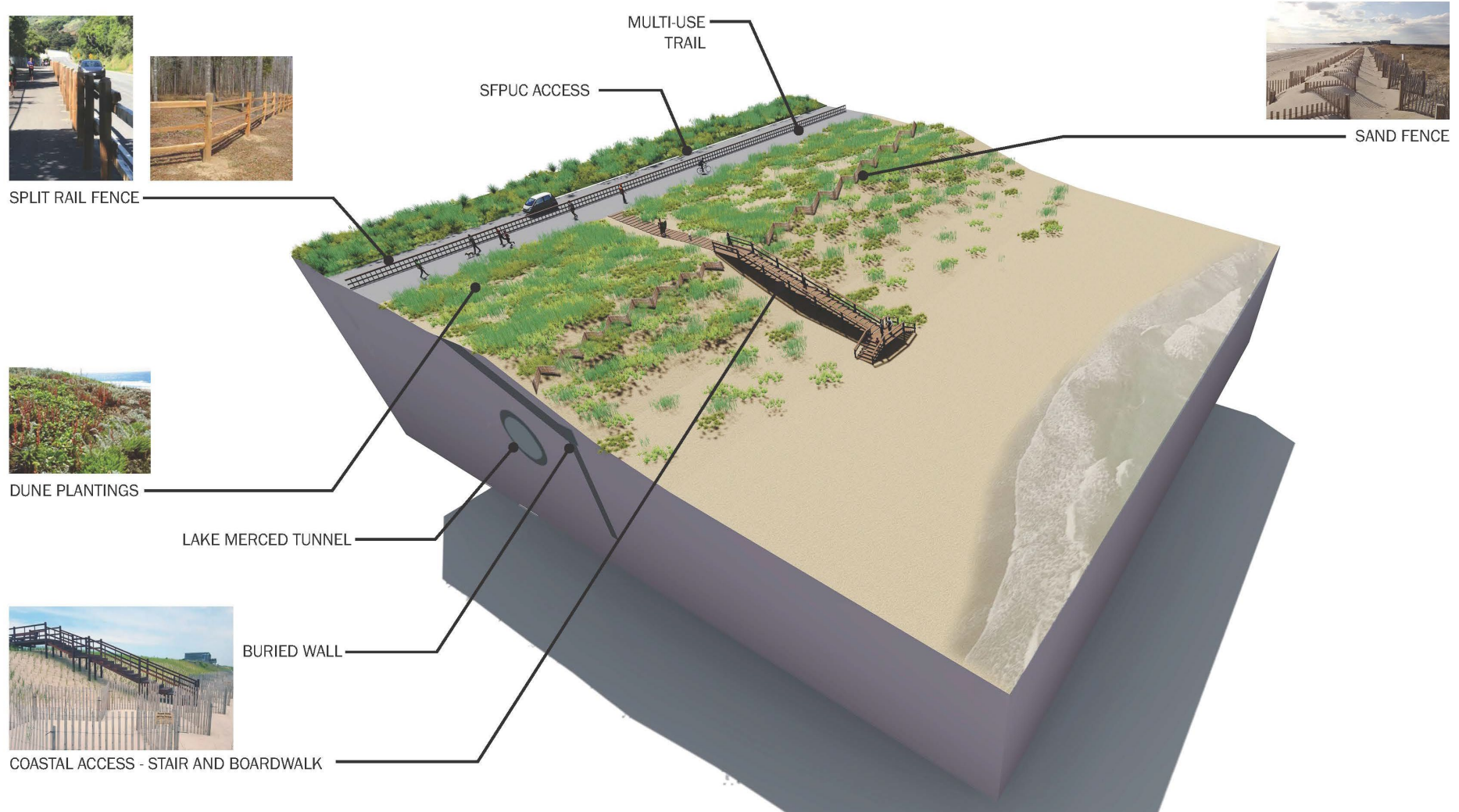


Long Term Phase Concept Plan

Ocean Beach Climate Adaptation Project



Beach Access Concept



Long-Term Phase Project Schedule

- Contract awarded on September 27, 2018
- The Conceptual Engineering Report was completed on September 30, 2019
- Design is currently under development, anticipated to complete October 2022
- The Draft Environmental Impact Report will be published in December 2021, and the Final Environmental Impact Report is expected by November 2022
- The Long-Term Improvements Phase is anticipated to begin construction in 2023





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WAWONA AND VICENTE STREETS STORMWATER AND WATER MAIN IMPROVEMENTS

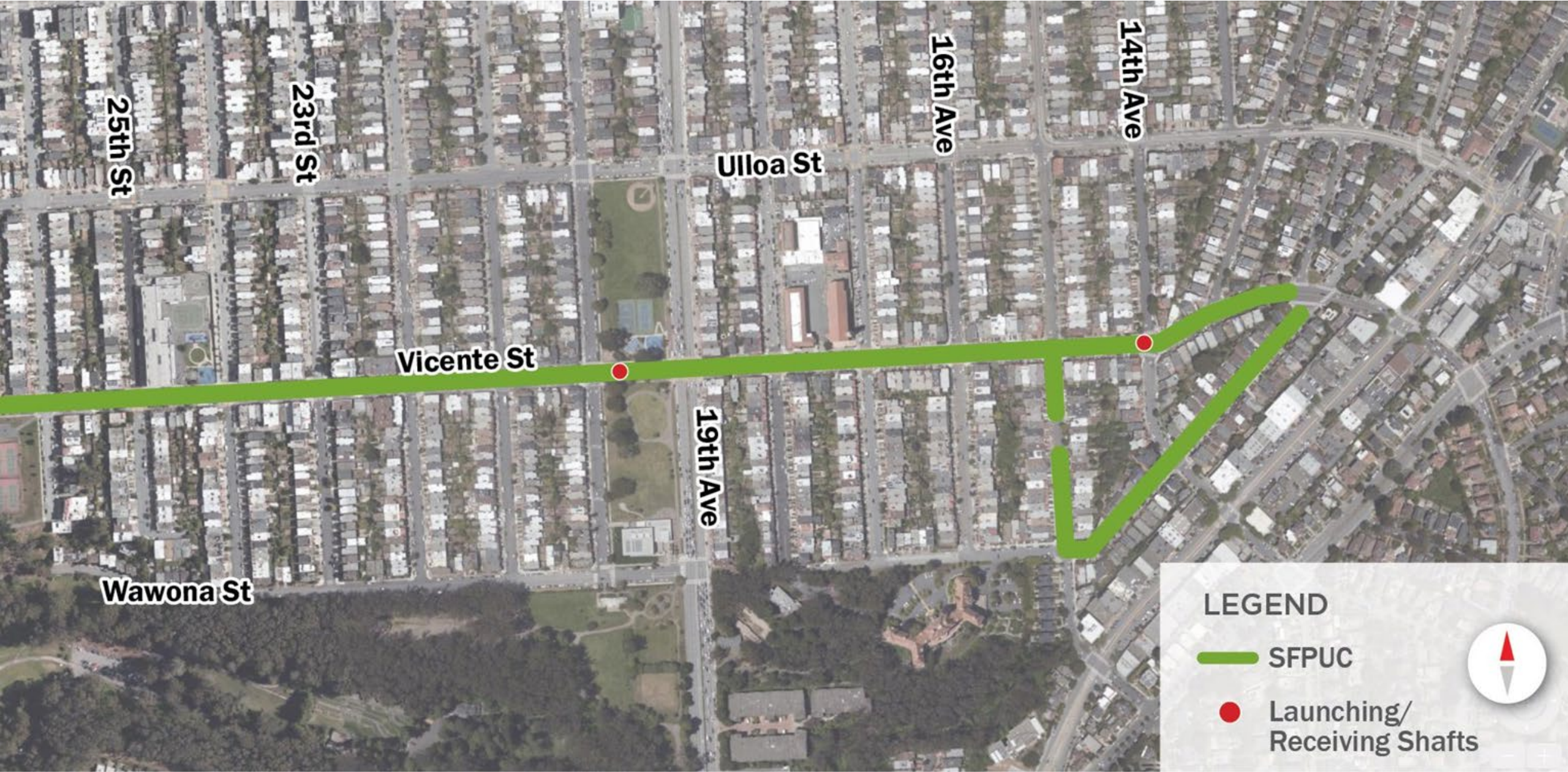
Wawona and Vicente Street Stormwater and Water Main Improvements Scope and Upgrades

Project Benefits

- Ensures citywide Level of Service for stormwater management in the area of 15th and Wawona streets
 - Important to note – even after the project is complete, localized flooding is still a risk during major storms
- Add a water transmission line that serves as the Potable Emergency Firefighting Water Supply System (PEFWS), from 19th Ave to 25th
- Replacing aged water distribution main on 18 block of Vicente and Wawona streets



Project Scope and Upgrades



Project Coordination



Project Scope and Upgrades



Key elements of Construction and Staging

- Trenchless work between 20th/14th avenues
- Maintain one lane traffic both directions along Vicente
- Parking restrictions with advanced notice (access to driveways maintained)
- No left turn from east bound Vicente onto northbound 19th Avenue
- Launching shaft work anticipated to begin December 2021 or early 2022

Project Schedule

Estimated Construction Schedule

2021

2022

2023

2024

SUMMER 2021 - WINTER 2024
(SUBJECT TO CHANGE)





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GREAT HIGHWAY SEWER CLEANING

RIVERA TO VICENTE

Sewer Cleaning Work Activities

- Cleaning the sewer box under the Great Highway, followed by an inspection as part of standard operations and maintenance efforts
- Northbound Upper Great Highway from Rivera to Vicente streets
- Work started the week of September 27, with completion anticipated by mid-October
- Monday – Thursday, 7:00 a.m. to 7:00 p.m. and Fridays, 7:00 a.m. to 12:00 p.m.
- There will be intermittent closure of the right-hand northbound lane near the work zones at the Great Highway/Rivera and then at Great Highway/Taraval



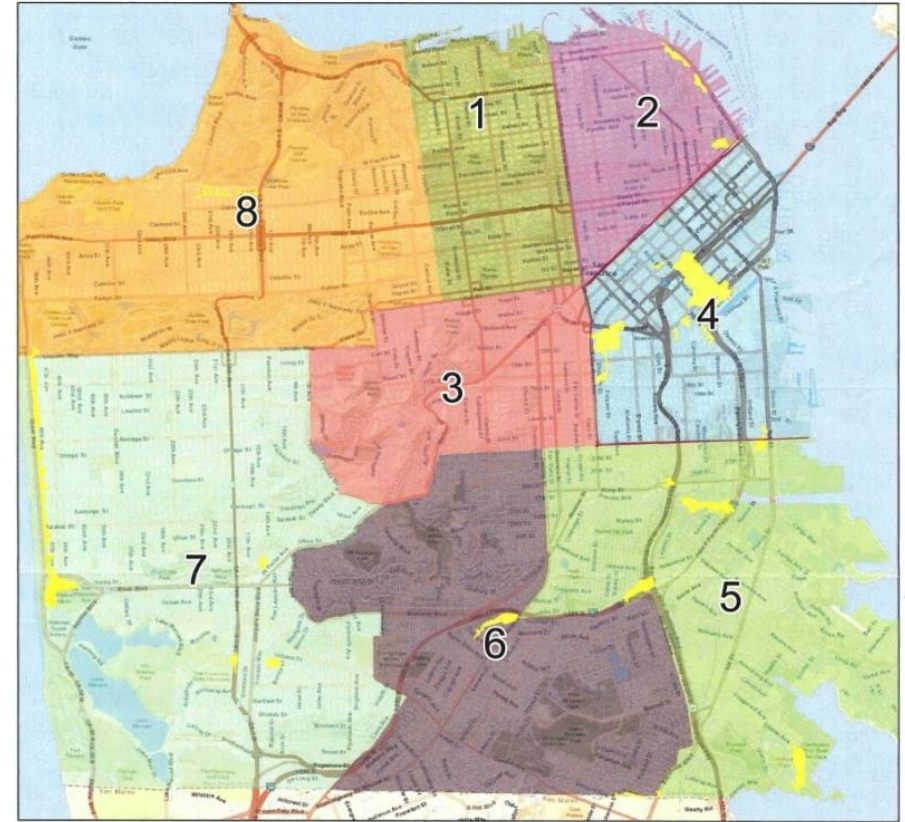


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Q & A

Storm Preparation & Response

- ✓ Treatment Plant Staffing
- ✓ Collections System Staffing
- ✓ Catch basin clearing
- ✓ Storm Watch
- ✓ Partnership with SF Public Works
- ✓ Sandbags



adoptadrain.org

Plan, Prepare & Protect



- ✓ Sign up for weather alerts
- ✓ Are you in the 100-year flood zone?
- ✓ Pickup sandbags
- ✓ Elevate belongings
- ✓ Help keep catch basins clean
- ✓ Call 311
- ✓ Adopt a drain
- ✓ Maintain sewer pipes/ laterals, roof drains and downspouts
- ✓ National Flood Insurance

For more information: 1-877-336-2627 or visit <https://www.floodsmart.gov>

Stern Grove Information

- On August 23rd, SFPUC crews were fixing a leaking air valve on a 54-inch pipeline when the air valve casing failed. Water spewed into air and into adjacent areas, including Stern Grove. Some Customers also reported low water pressure during the incident.
- Work is underway to restore Stern Grove.
- SFPUC is working closely with Rec and Park and the Stern Grove Association on restoration efforts. We've let 2 emergency contracts to complete the work.
- Removal of soil, debris, and hazard trees has begun with studies about slope stabilization underway.
- Continued remediation and restoration of water damage to exterior/ interior of a couple of buildings.
- It is important that people stay clear of the site for safety reasons
- The Pine Lake dog play area is currently open.
- The Trocadero Club House is undamaged, but is closed because of proximity to the repair work.
- The Concert Meadow area of Stern Grove will remain closed until further notice until repairs are made.
- Estimated time is about 4 months total. Preliminary work began on August 28th.
- SFPUC will pay for the cost of repair, currently estimated at \$4 million.

Public Works: 19th Avenue Improvements October Update

Irving to Judah

- Irving to Judah East- AWSS trench restoration 10/21-10/15/21

Judah to Kirkham (East)

- Installations of fire hydrant
- AWSS trench restoration 10/18/21-10/29/21

Kirkham East

- Demo/form/pour sidewalk (2pours) 10/1/21-10/7/21
- Pour curb ramp 10/8/21

Kirkham to Lawton (East)

- Demo/form/pour parking strip 10/11/21-10/22/21

Lawton

- Bus Pad installation 9/22/21-10/5/21

Noriega

- Noriega East Bus Pad curing 9/29/21-10/12/21

Ortega

- Demo/Install 20" & Hydrant AWSS at Ortega 10/8/21-10/21/21

Pacheco

- Installing large manhole 9/28/21-10/7/21

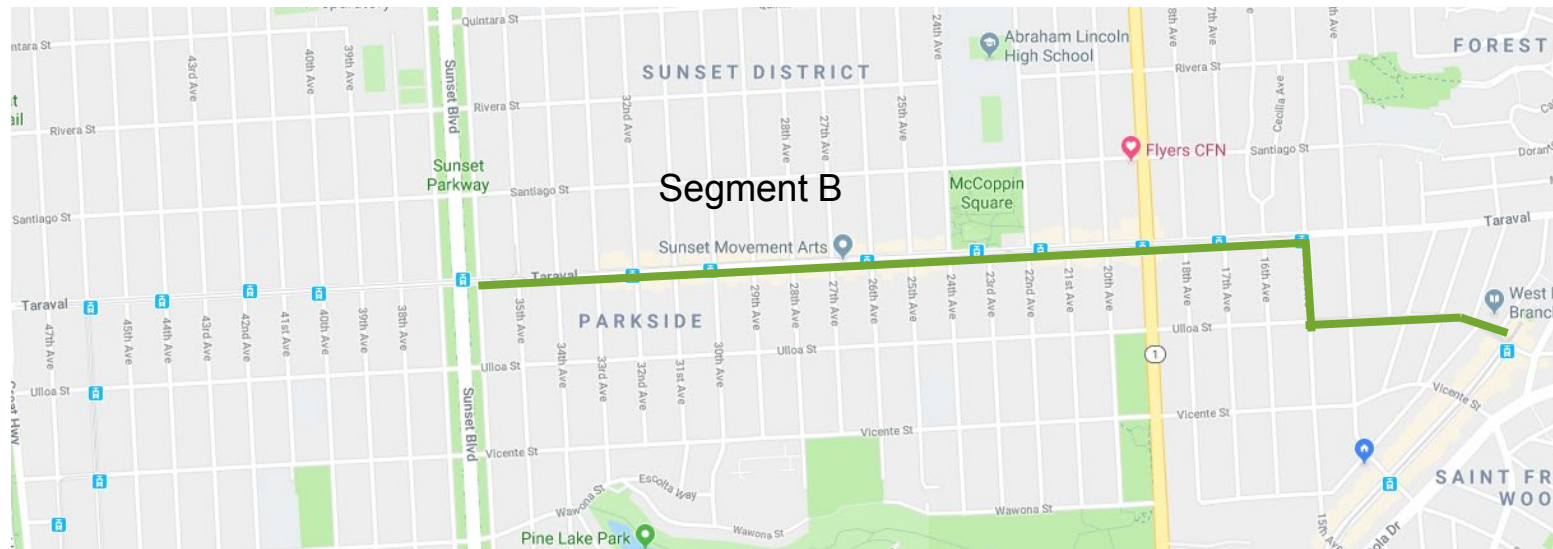
Santiago to Taraval

- Side sewer clean out 9/30/21-10/5/21



L Taraval Improvement Project Segment B Construction Area

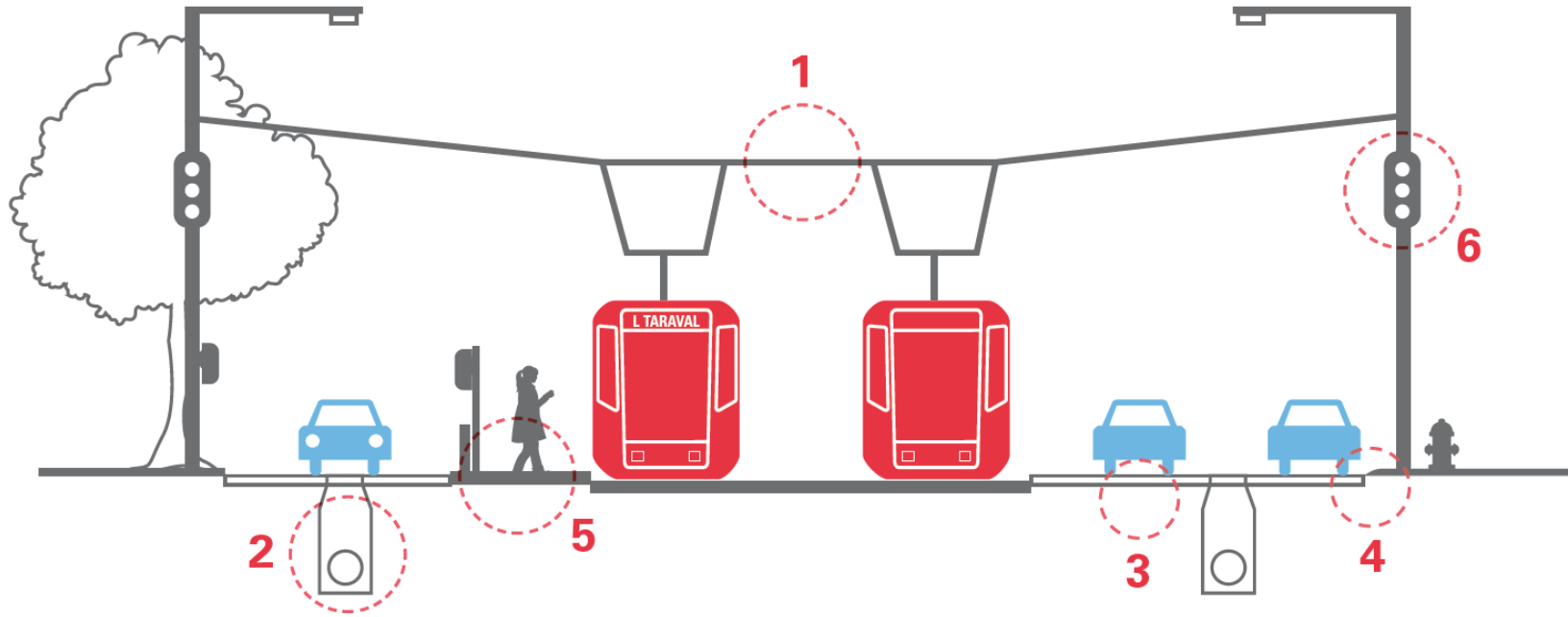
Segment B – Sunset Blvd to West Portal



Estimated Start January 2022

Completion Estimated 2024

Infrastructure Improvements



1. Rail track and overhead line replacement
2. Water and sewer line replacement
3. Surface repaving
4. Curb ramp upgrades
5. Concrete boarding islands and pedestrian bulbs
6. Traffic signals

Finalized Staging Locations

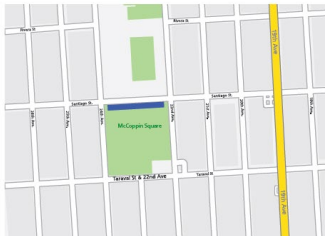
- Santiago Street between 22nd and 24th Avenue
- 20th Avenue between Ulloa and Wawona Street
 - Half of the block between Ulloa and Vicente will be utilized for staging while the other half will be left open for athletic field access/parking.
- Wawona between 21st and 23rd Avenue
- 36th Avenue between Taraval and Ulloa Street
- Taraval between 12th and 15th Avenue

MUNIFORWARD

L Taraval Improvement Project

Santiago Street between 22nd and 24th Avenue

- Location is adjacent to park
- Grade is ok for staging needs
- Length: 550 ft
- Parking Impact: 25 parking spaces



MUNIFORWARD

L Taraval Improvement Project

Segment A Staging Pictures

