

Nearshore Watershed

July 12, 2018

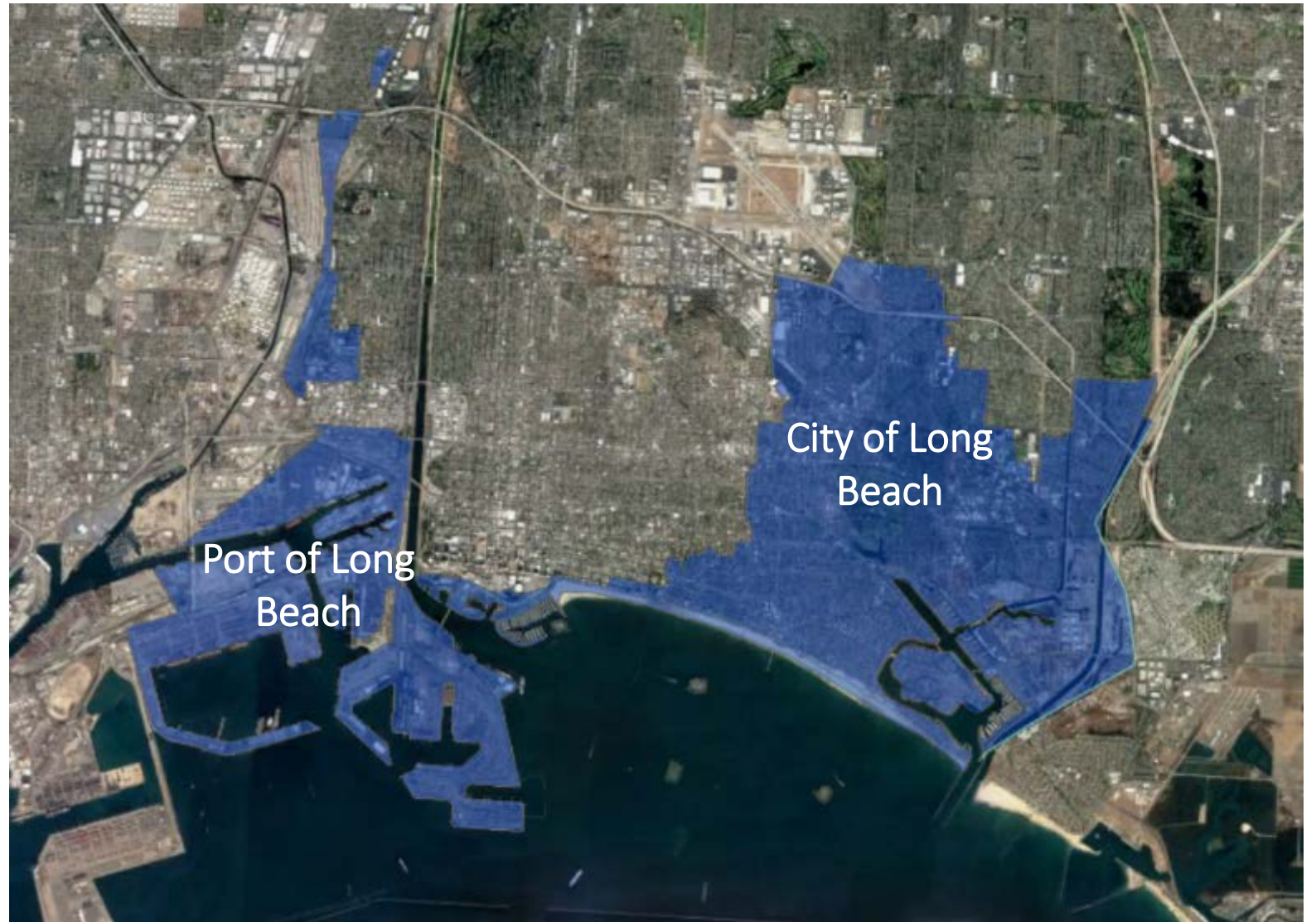


Presented by:
Melissa You and James Vernon


CITY OF
LONG BEACH



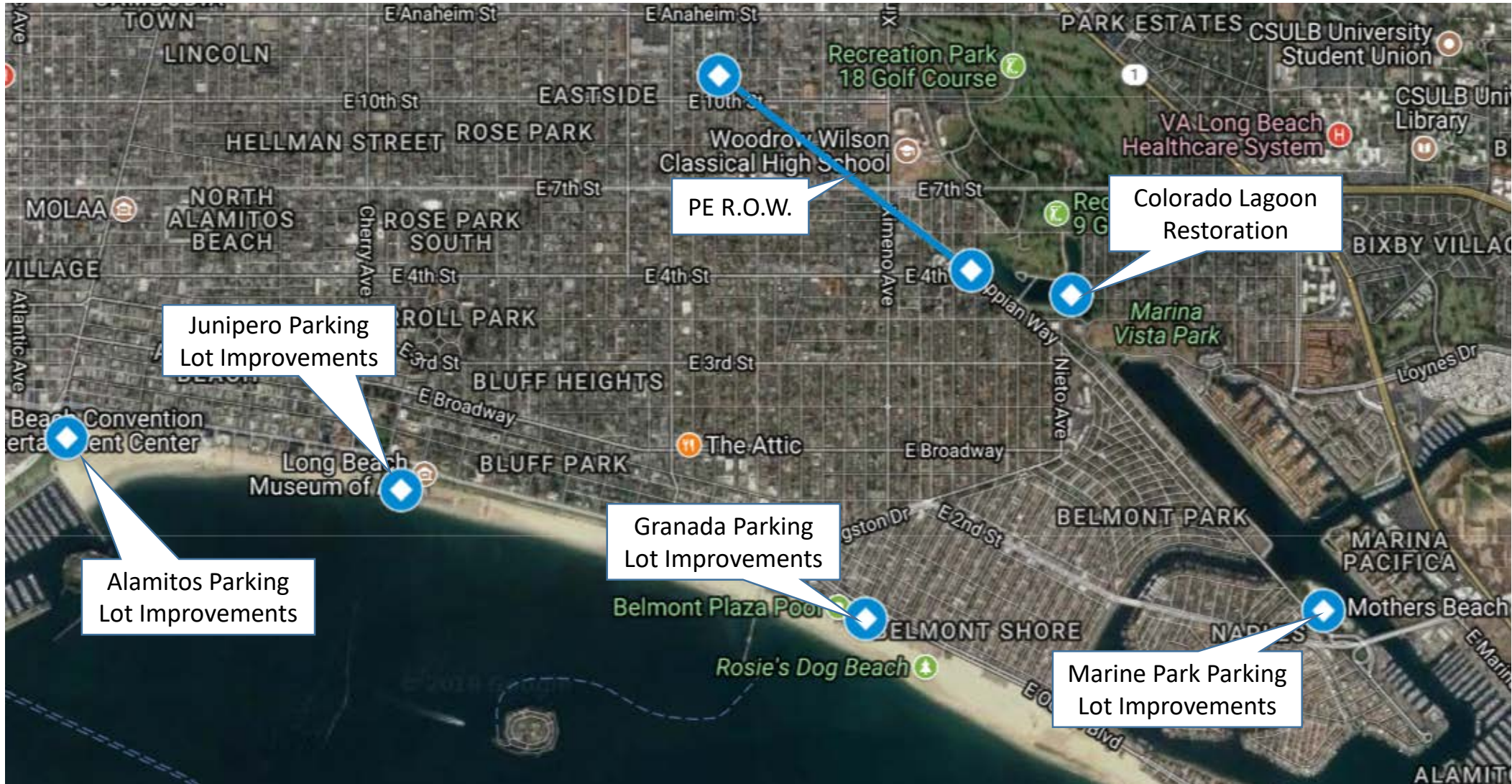
The Port of
LONG BEACH



Background

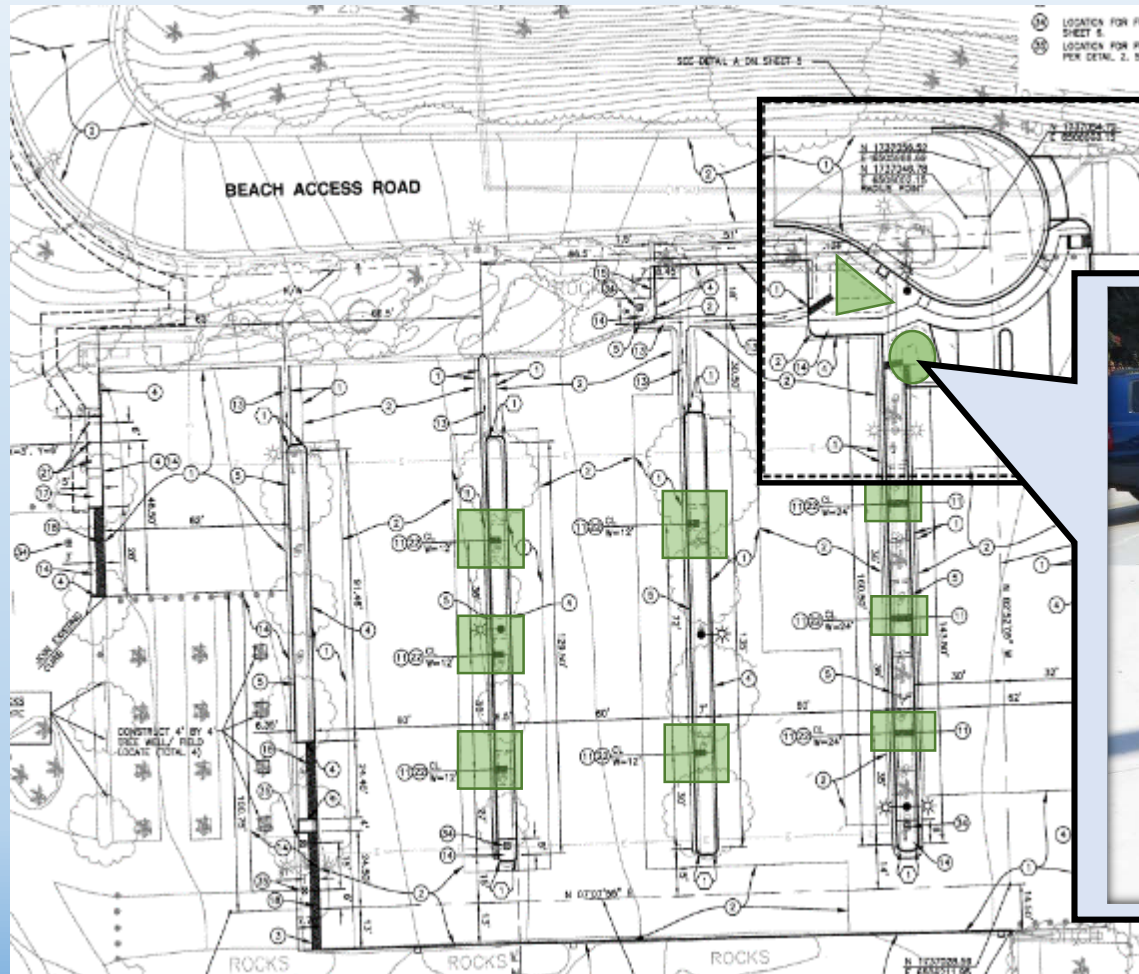
- The City of Long Beach is a member of three Watershed Management Groups (WMGs) in addition to the Nearshore WMG:
 - Lower Los Angeles River
 - Lower San Gabriel River
 - Los Cerritos Channel
 - The Nearshore WMG is comprised of the City of Long Beach (the portion not in the above WMGs) and the Port of Long Beach
 - The City of Long Beach is subject to its own MS4 Permit
 - The Nearshore WMP was approved in January 2016
- 

Public Retrofit Projects



Alamitos Parking Lot Improvements

COMPLETED



- BMP Type: Infiltration Basin
- BMP Quantity: 10
- BMP Capacity: 0.07 acre-feet



Granada Parking Lot Improvements

COMPLETED

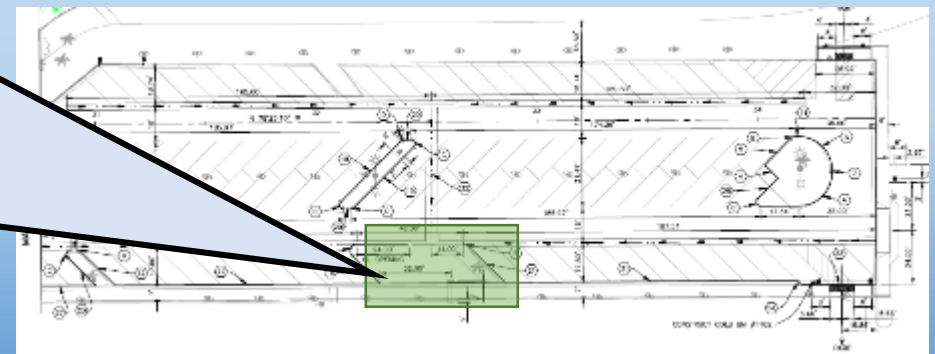
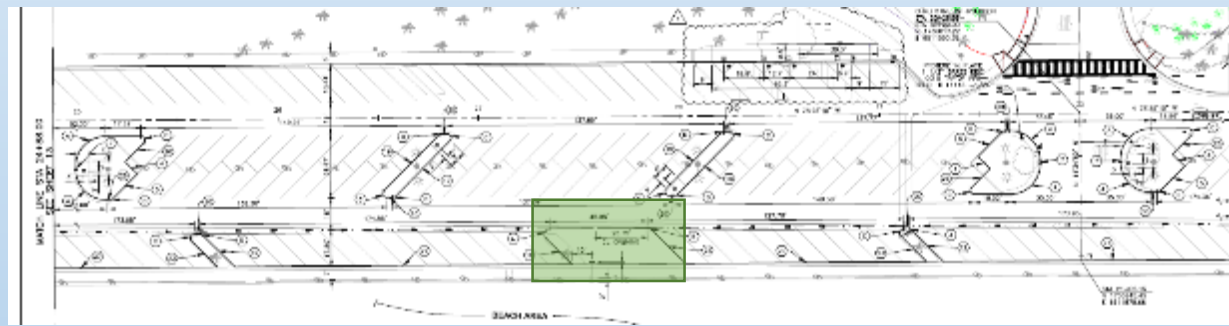
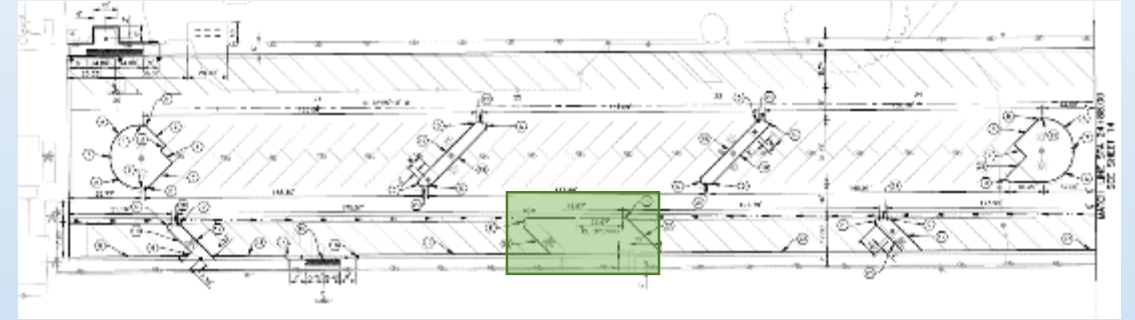
- BMP Type: Infiltration Basin
- BMP Quantity: 11
- BMP Capacity: 0.6 acre-feet



Junipero Parking Lot Improvements

COMPLETED

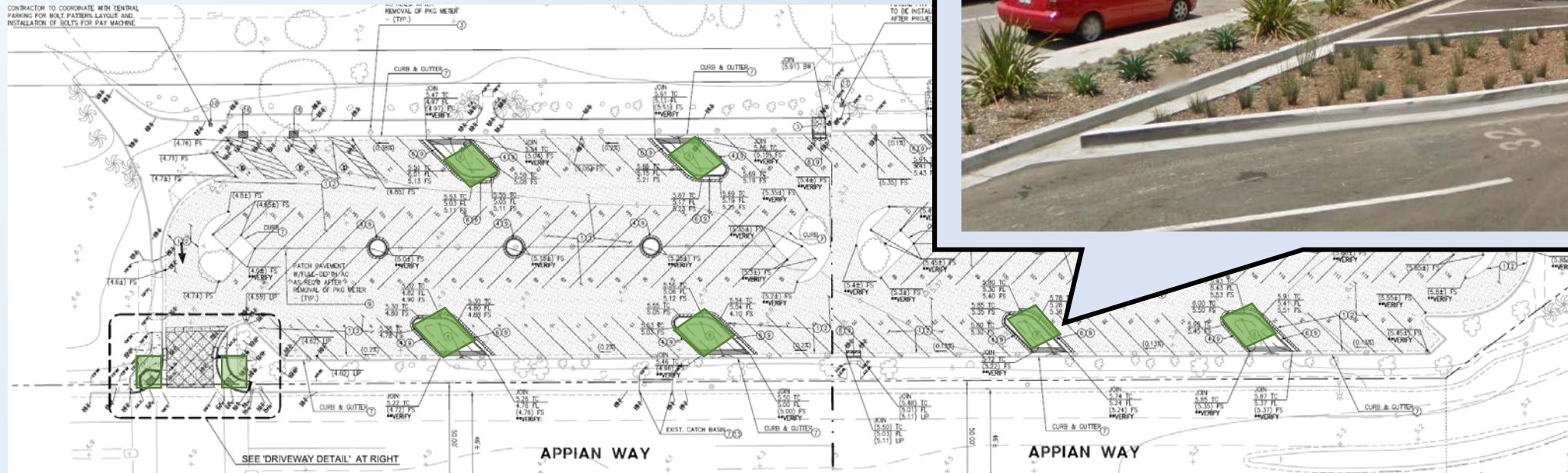
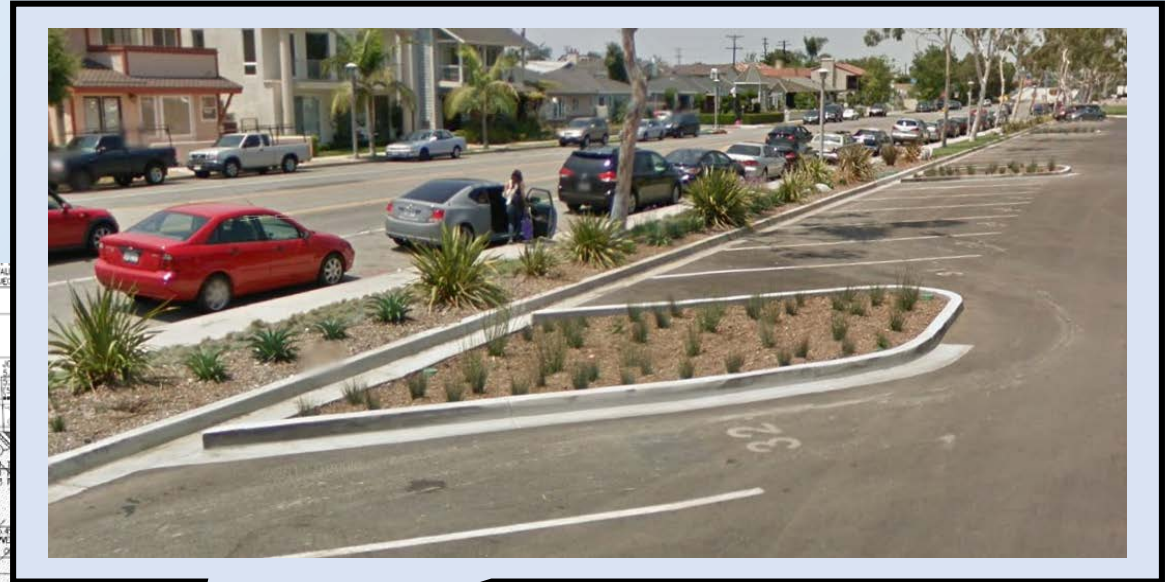
- BMP Type: Infiltration Basin
- BMP Quantity: 3
- BMP Capacity: 0.19 acre-feet



Marine Park Parking Lot Improvements

COMPLETED

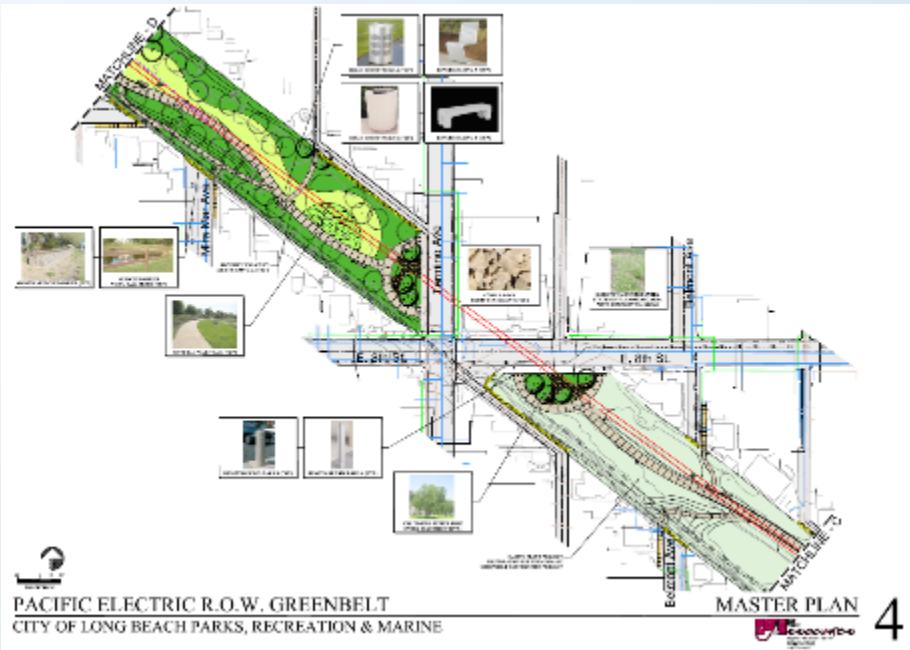
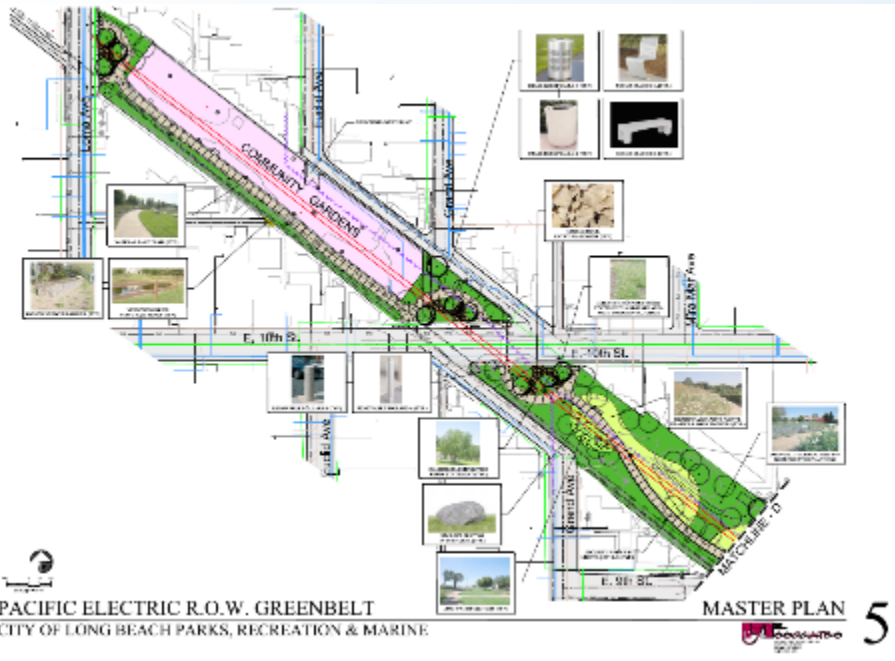
- BMP Type: Infiltration Systems
- BMP Quantity: 10
- BMP Capacity: 0.07 acre-feet



CONCEPTUAL

Pacific Electric Right-of-Way (PE R.O.W.)

- Conversion of PE R.O.W. property (~1 mile) to public greenbelt with bicycle and pedestrian trails and access to Colorado Lagoon
- Stormwater capture
- Water-efficient irrigation, energy-efficient lighting, carbon-sequestering vegetation





Long Beach MUST

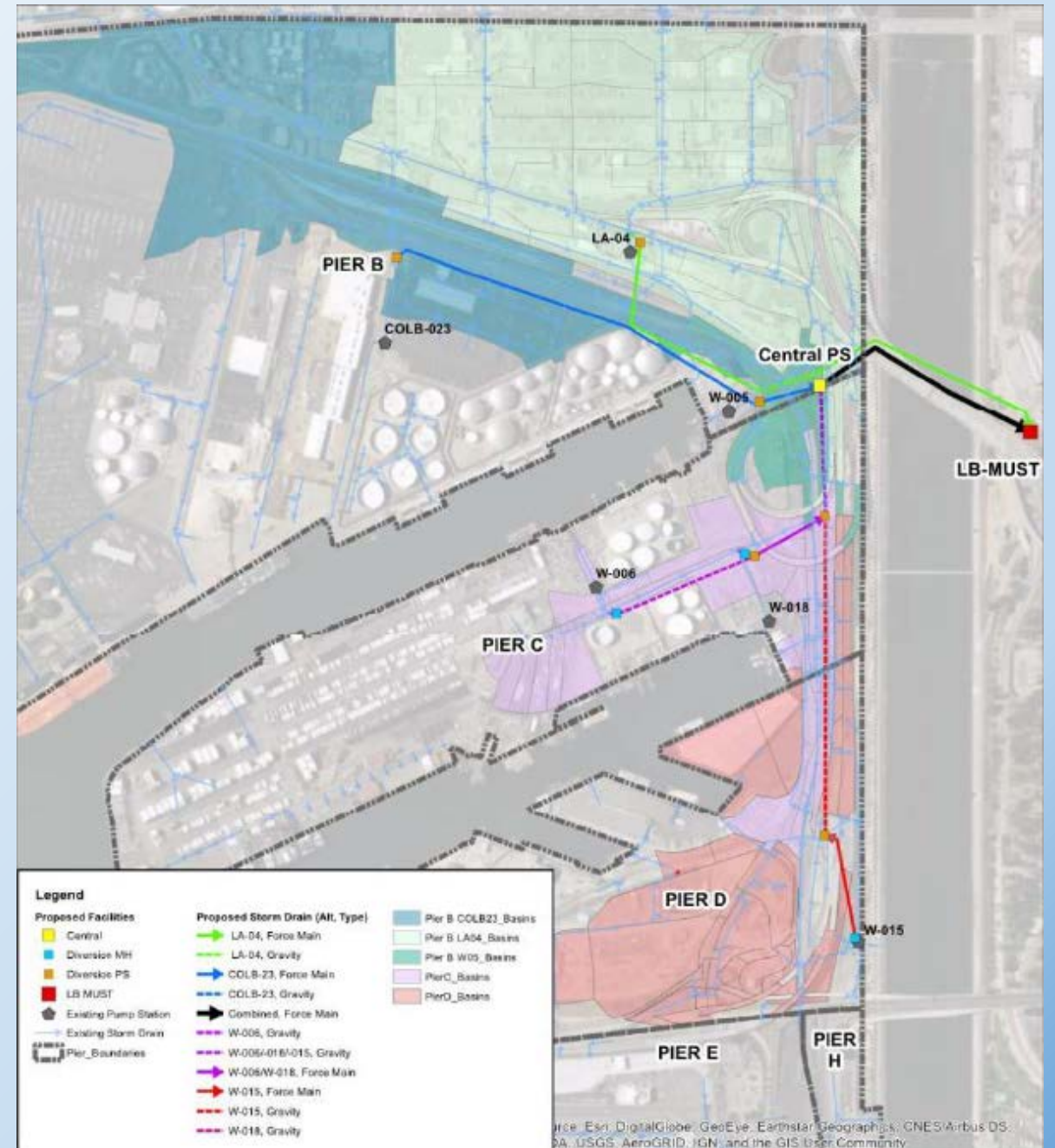
60% DESIGN

- Stormwater and urban runoff treatment facility
- Drainage area of 12,000 acres serving disadvantaged communities
- Potential treatment capacity of ~436,000 gallons/day
- Already awarded \$28 million in Caltrans funding and over \$2 million from additional sources
- Later phase to intercept drainage from Port of Long Beach for treatment



Port Integration with the MUST

- Potentially intercept stormwater from Port areas in the vicinity of the MUST
- Divert the 85th percentile, 24-hour rainfall event
 - Pier B – 160 acres
 - Pier C – 75 acres
 - Pier D – 5 acres





Colorado Lagoon Restoration

COMPLETED



- Implemented to comply with the Colorado Lagoon Toxics TMDL
- Phase 1: low-flow diversion, dredging, temporary bioswale, trash separation devices
- Phase 2: final bioswale, shoreline re-grading, planting of native vegetation, construction of open channel connection to Alamitos Bay
- City and Port of Long Beach worked closely on this project as well as state/federal agency partners



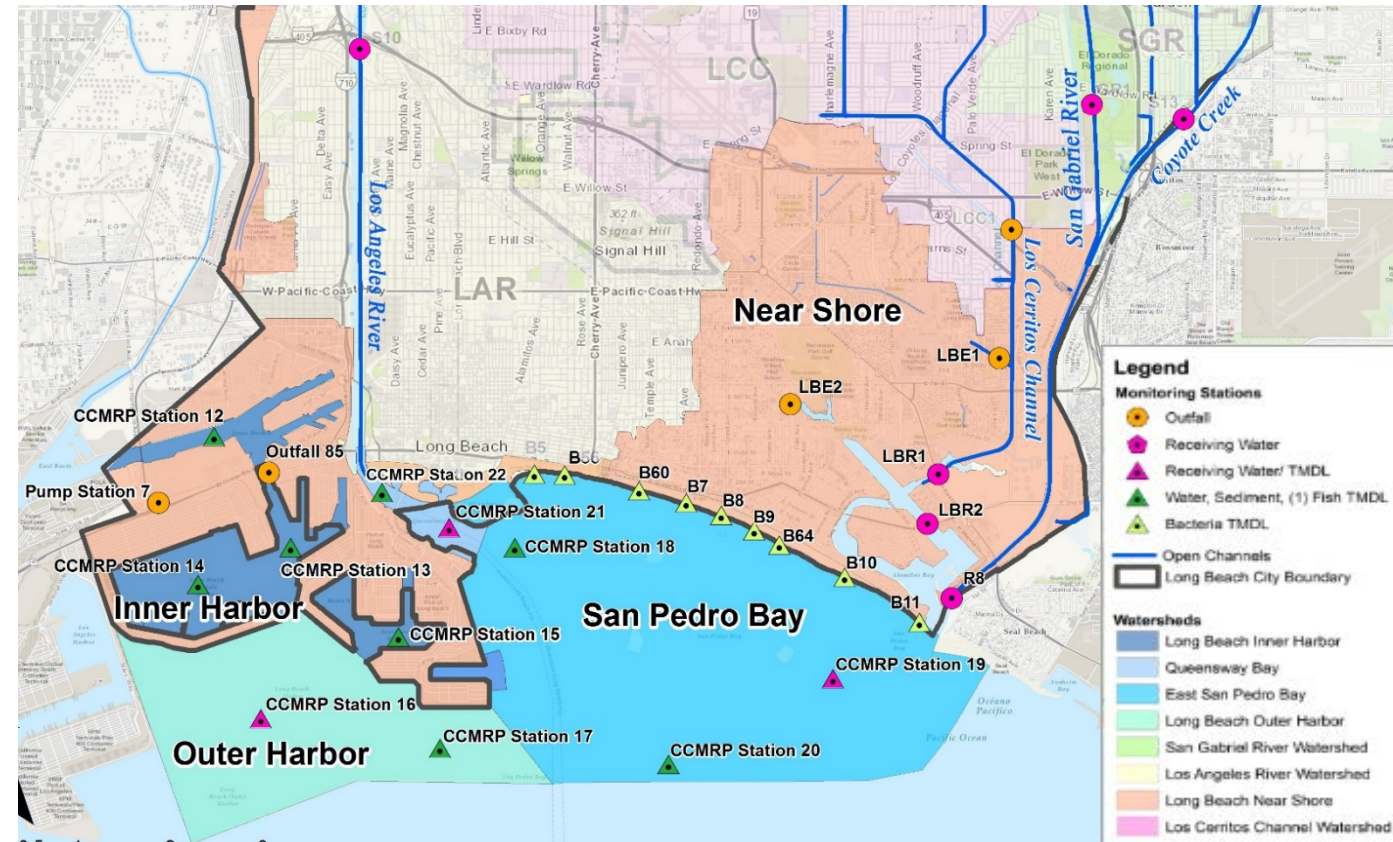
Annual detail cleaning of vaults



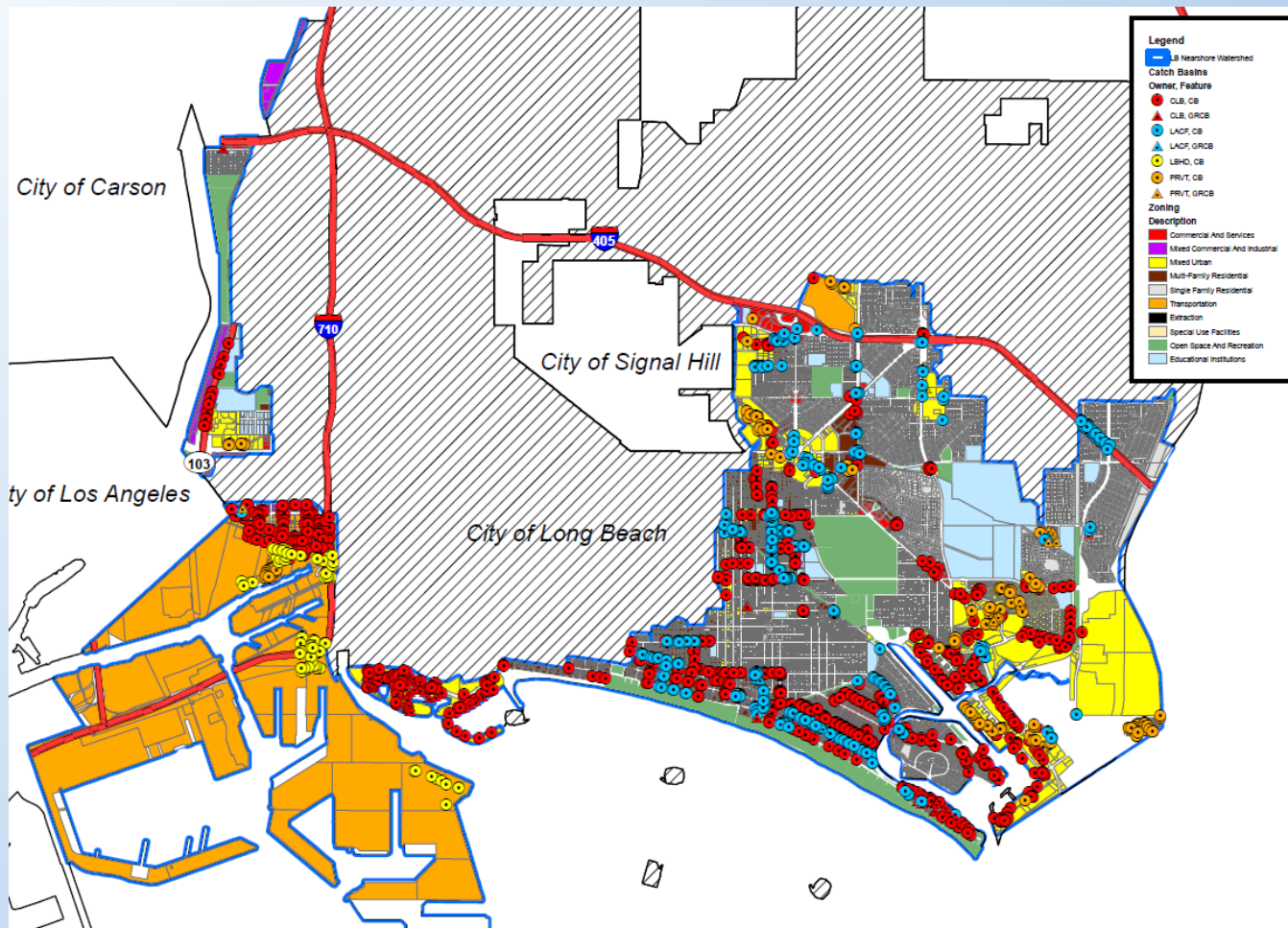
Colorado Lagoon Trash Traps

Monitoring

- Integrated Monitoring Programs (IMPs):
 - Port Area
 - Non-Port Area
- Nearshore:
 - LB City Beaches and LARE Bacteria
 - (AB 411 Beaches)
 - Colorado Lagoon OC Pesticides, PAHs, PCBs, Metals and Sediment Toxicity
 - Sediment Quality Objectives
- Additionally:
 - Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants
 - Multiple other TMDLs are monitored through participation in other watersheds
- Non-stormwater outfall screenings conducted



Statewide Trash Amendment



- Extensive mapping effort completed
- Installation of full capture systems are underway
- Additionally:
 - Port of Long Beach installed:
 - 35 vortex separators
 - 101 catch basin inserts
 - 45 CPS
 - 236 ARS
 - City of Long Beach completed 2 LFD/vortex systems that provide dry-weather trash and sediment treatment and screening

Thank You

Questions?



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