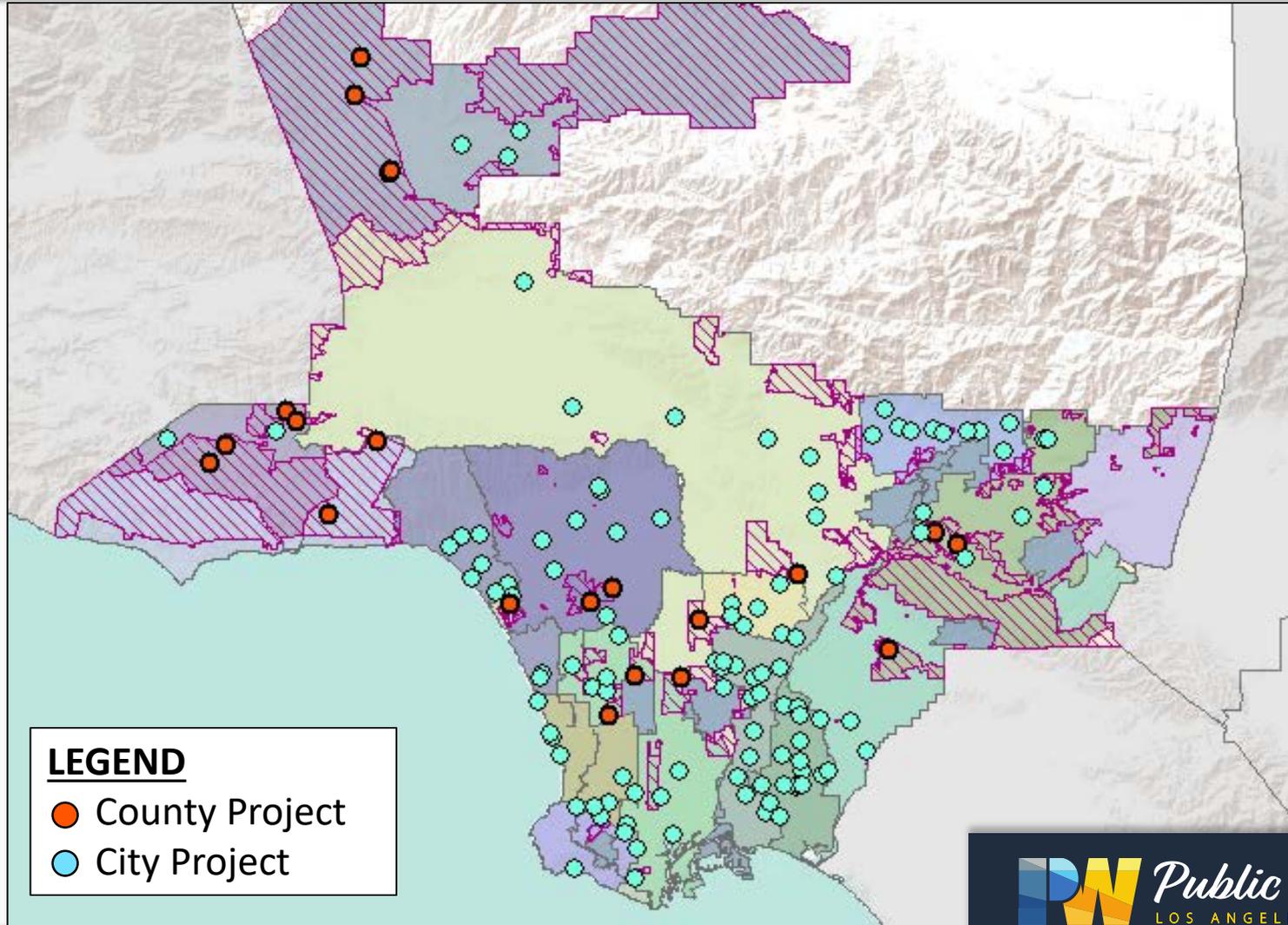




Construction Costs for Stormwater Capture Projects

April 11, 2019

Los Angeles County Stormwater Capture Projects



Los Angeles County Stormwater Capture Projects

Project Name	Category	Construction Costs	Capacity per Storm Event
Franklin D. Roosevelt Park Regional Stormwater Capture Project	Infiltration Wells & Gallery	\$10.3M	8 acre-feet
Earvin "Magic" Johnson Park: Compton Creek Stormwater Capture and Reuse Project	Reuse	\$28.8M	7 acre-feet
Carriage Crest Park Stormwater and Runoff Capture Project	Diversion to WWTF	\$16.3M	27 acre-feet
Ladera Park Stormwater Improvements Project	Infiltration Wells/Reuse	\$7.9M	5.1 acre-feet
Gates Canyon Stormwater Improvements Project	Infiltration Wells/Reuse	\$8.5M	3.5 acre-feet

Franklin D. Roosevelt Park Project



CONCEPTUAL
DESIGN

Existing Soccer Field

Construction Cost \$10.3M

Franklin D. Roosevelt Park Project



Earvin “Magic” Johnson Park

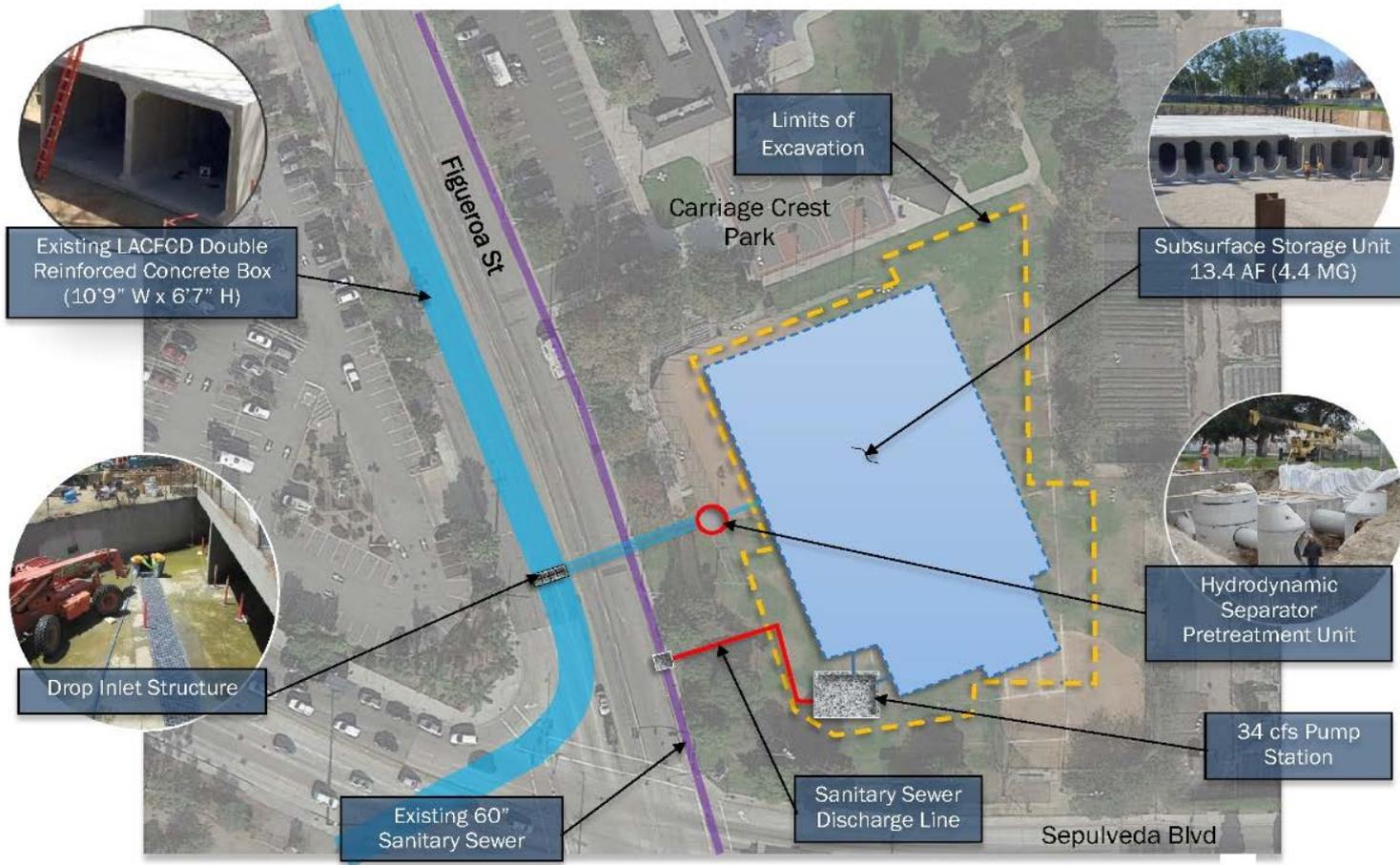
RUNOFF RECYCLING PROCESS

- 1 Divert wet and dry weather runoff from local stormdrain line
- 2 Treatment facility removes pollutants in runoff water
- 3 Sediments in water are removed and wetlands further filter water
- 4 Water in lakes circulated continuously through treatment facility
- 5 Treated water stored in lake and used for park irrigation



Construction Cost \$28.8M

Carriage Crest Park Project



Construction Cost \$16.3M

Ladera Park Project



Construction Cost \$7.9M

Gates Canyon Park Project



Construction Cost \$8.5M

Lessons Learned (so far) Regarding Costs

- Innovation
 - Each project is unique (geologic condition, type of community enhancements, etc.)
 - Developing new standards and processes
- Land Availability
 - Park space
 - Partnerships with cities
 - Need to begin partnering with private sector

Lessons Learned (so far) Regarding Costs

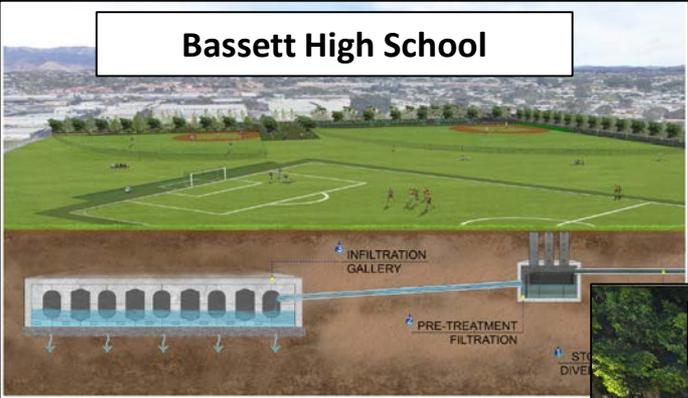
- Thriving Economy
 - Affects number of competitive bids
 - Tariffs
- Life Cycle Costs
 - High upfront costs but need to develop true life cycle costs
 - As we learn more about the performance of these projects, soft costs/construction costs/maintenance costs are expected to be reduced

Los Angeles County Funding Sources

Project Name	Construction Costs	Grant Funding	Grant Source
Franklin D. Roosevelt Park Regional Stormwater Capture Project	\$10.3M	\$2.05M	Proposition 84
Earvin "Magic" Johnson Park: Compton Creek Stormwater Capture and Reuse Project	\$28.8M	N/A	N/A
Carriage Crest Park Stormwater and Runoff Capture Project (Led by Carson)	\$16.3M (\$5.7M from County)	\$13.0M	Caltrans
Ladera Park Stormwater Improvements Project	\$7.9M	\$4.835M	Proposition 84
Gates Canyon Stormwater Improvements Project	\$8.5M	\$3.3M	Proposition 1

Los Angeles County Upcoming Projects

Bassett High School



Allen J Martin Park



East LA Sustainable Median



Hasley Canyon Park



Adventure Park



Los Angeles County Upcoming Projects

Project Name	Project Phase
East LA Median Sustainable Median (\$30M)	DESIGN
Viewridge Rd Regional Super Green Streets Project (\$5.8M)	DESIGN
Alondra Park Multi-benefit Stormwater Capture Project (\$36M)	DESIGN
Adventure Park Multi-Benefit Stormwater Capture Project (\$31M)	DESIGN
Bassett High School Stormwater Capture Project (\$45M)	CONCEPT
Monteith Park Stormwater Capture Project (\$5M)	CONCEPT
Hasley Canyon Park Stormwater Capture Project (\$10.7M)	CONCEPT
Wagon Road Low Flow Diversion (\$1.3M)	CONCEPT
Pico Canyon Park Multi-benefit Stormwater Capture Project	CONCEPT

Project Name	Project Phase
Jake Kuredjian Park Multi-benefit Stormwater Capture Project	CONCEPT
Obregon Park Multi-benefit Stormwater Capture Project	CONCEPT
Slauson Ave & Shenandoa Ave Regional Super Green Streets Project	CONCEPT
West Centinela Ave Regional Green Street Project	CONCEPT
Ballona Creek UA Islands Regional Green Street Project	CONCEPT
Allen J Martin Park Multi-benefit Stormwater Capture Project	CONCEPT
Mulholland Hwy et al Regional Super Green Streets Project	CONCEPT
Chester Washington Park Multi-benefit Stormwater Capture Project	CONCEPT
Castaic Sports Complex Multi-benefit Stormwater Capture Project	CONCEPT

Green Streets

- New Green Street Master Plan by early 2020
- Robust cost data expected in late 2020



THANK YOU

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