

Fairplex Stormwater Capture Project

Project Description

The City of Pomona proposes to capture stormwater runoff to provide treatment and groundwater recharge at Fairplex (Project area), located at 1101 W. McKinley Ave. in Pomona, California. The project will capture 31.04 acre-feet (af) of stormwater runoff from a 488-acre drainage area surrounding the project area. The 24-hour, 85th percentile rainfall depth will be captured and treated using a hydrodynamic separator before it flows to an underground infiltration gallery (NDS Storm Chamber[®]) to provide infiltration-based treatment and groundwater recharge. The project area, vicinity map and stormwater capture area are shown in Figure 1.

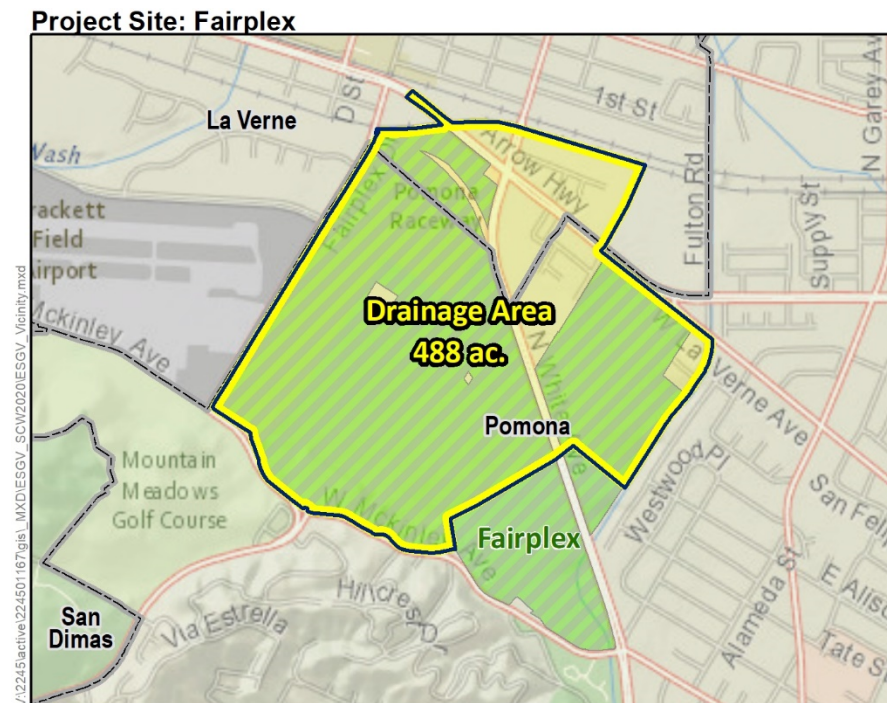


Figure 1: Project Area, Vicinity and Drainage Area Map

Existing site features at the project area are shown in Figure 2.

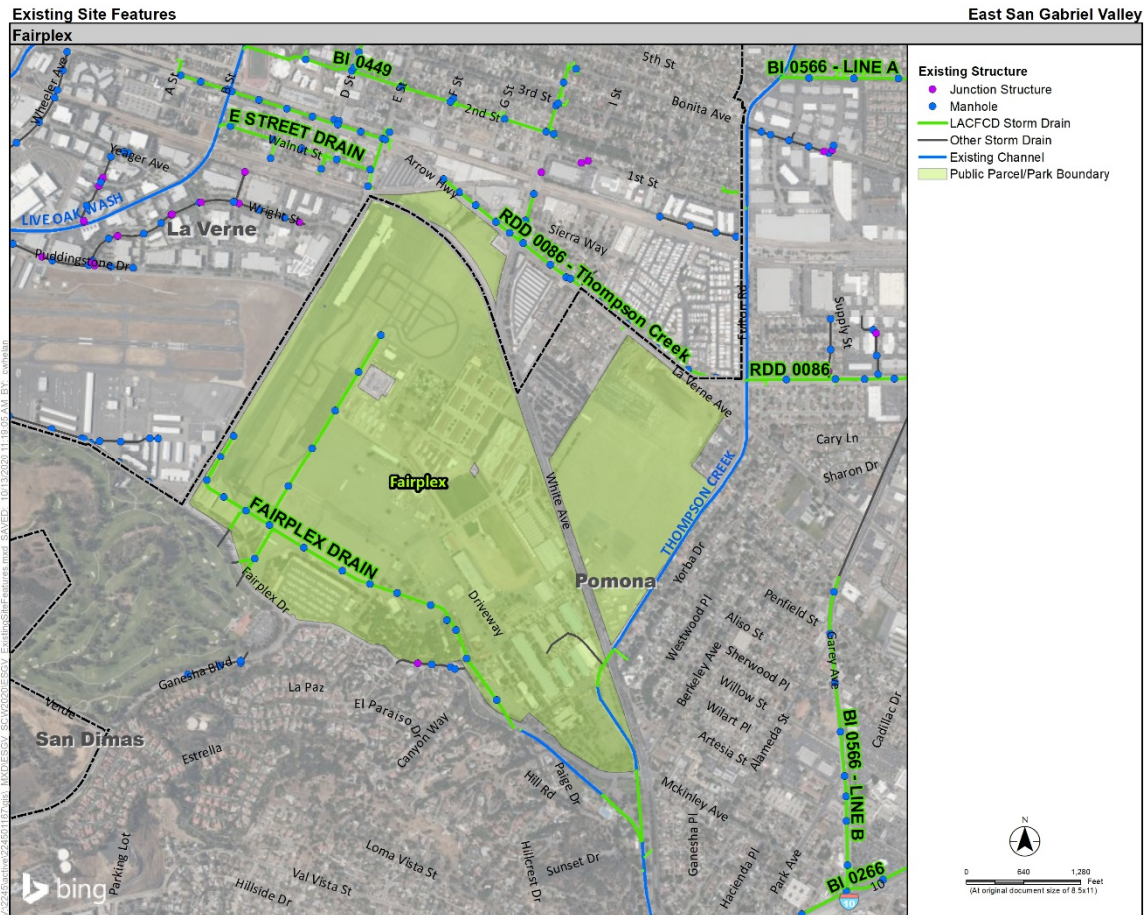


Figure 2: Existing Site Features

Proposed Connections and Project Features

- ✓ Divert from LACFCD's RDD0086 – THOMPSON CREEK (W Arrow Hwy). Flows will be conveyed via gravity to a hydrodynamic separator for pretreatment and then conveyed via gravity to the infiltration gallery.
- ✓ Divert from LACFCD'S FAIRPLEX DRAIN (North of W McKinley Ave). Flows will be conveyed via gravity to a hydrodynamic separator for pretreatment and then pumped to the infiltration gallery.
- ✓ Install a new catch basin adjacent to Thompson Creek and drainage conveyance. Flows will be conveyed via gravity to a hydrodynamic separator for pretreatment and then conveyed to the infiltration gallery.
- ✓ Install an underground infiltration gallery (NDS StormChamber) within Grandstand Field on the Fairplex grounds.
- ✓ Connect emergency overflow pipe from the infiltration gallery to Thompson Creek.

Proposed project features are shown in Figure 3.

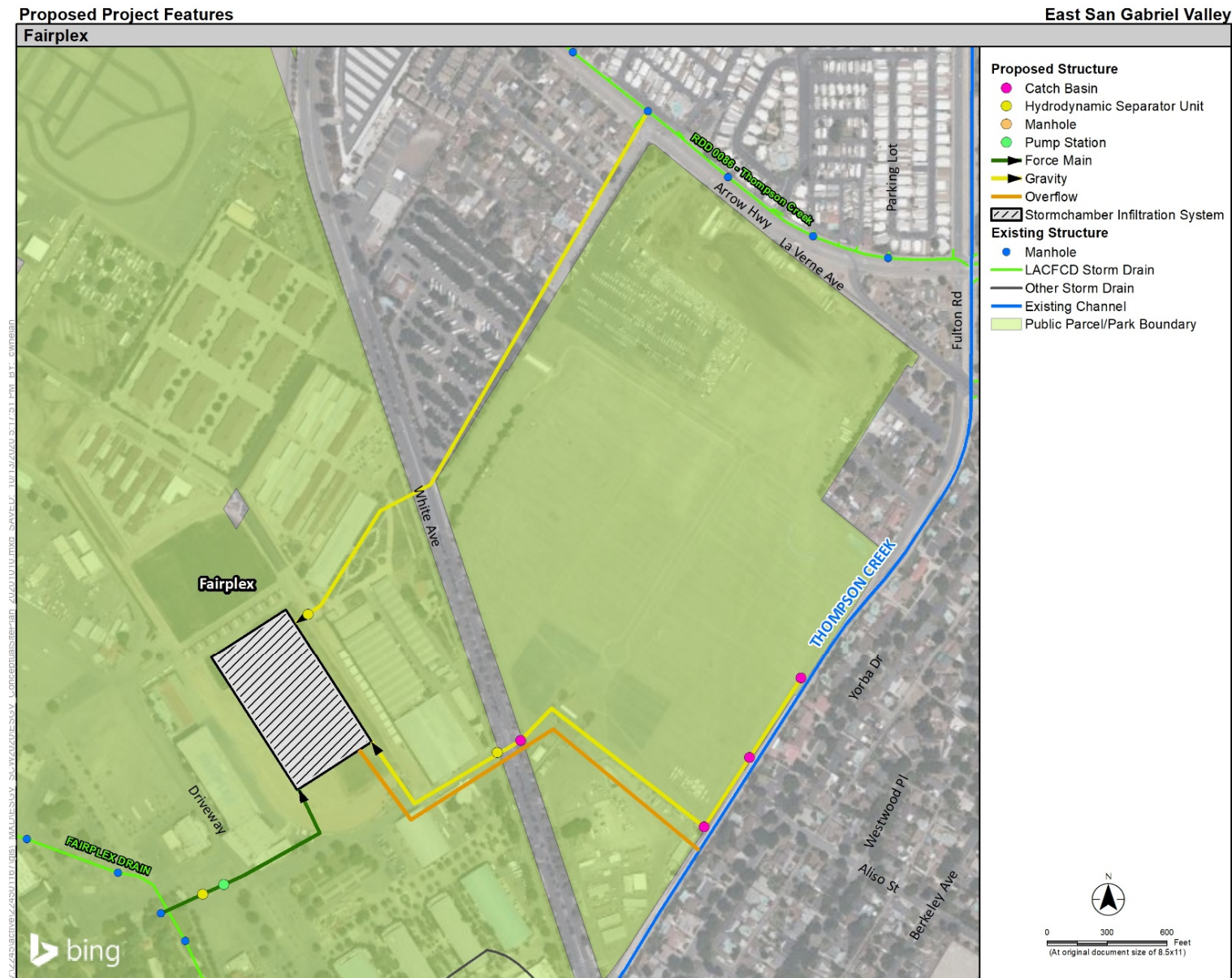


Figure 3: Proposed Connections and Project Features

Project Benefits

- ✓ Prevent and reduce amount of pollutants discharged into Thompson Creek.
- ✓ Groundwater recharge by capturing and infiltrating runoff.
- ✓ Provide educational signage that explain the environmental and community benefits of the proposed project
- ✓ Restore and improve Grandstand Field.

Project Cost Estimate

- ✓ Preliminary total project cost estimate: \$31.9 M
- ✓ Preliminary construction estimate: \$29.0 M
- ✓ Design (Soft costs): \$2.9 M

Tentative Milestone Schedule

- ✓ September 2021 – August 2022 Design and Permitting
- ✓ September 2022 – August 2024 Construction

Outreach

The project teams have engaged with the Los Angeles County Fair Association that uses the 487-acre Fairplex to conduct the Los Angeles County Fair and year-round business. A specific plan is going to be developed by the Los Angeles County Fair Association for the Fairplex in coordination with the local community. Project specific input from the community will also be sought during the design phase.

Detailed Summary of the Estimated Project Scoring

According to Safe Clean Water Project online scoring criteria, the estimated score for this project is 73 points. The system scores the project from 5 different perspectives, which are:

- ✓ Water Quality (50/50)
- ✓ Water Supply (12/25)
- ✓ Community Investment (2/10)
- ✓ Nature-Based Solutions (5/15)
- ✓ Leveraging Funds (4/10)