Marc Brandt Infiltration Park: From Flood Control to Community Asset. A Functional Approach to Urban Stormwater Management

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New Mexico Watershed and Dam Owners Conference

May 2026

AGENDA

Recap from 2025 Conference
- Bid summary and final construction costs
- Construction progress and site photos

Project Background
- Existing site conditions and context
- Project scope and objectives

Watershed Analysis
- Key hydrologic parameters
- Peak flow, runoff volume, and constraints

Alternatives Analysis
- Underground storage options evaluated
- Constructability, cost, maintenance, and hydraulics

Selected Alternative
- Chosen design approach and features
- Locally adapted plants and landscaping

Green Stormwater Infrastructure (GSI)

Locally Adapted Plants

RECAP FROM 2025 CONFERENCE

- Total Number of Bids : 3
- Engineers Estimate : 2.7 Million
- Bid Award : 2.4 Million
- Final Construction Cost : 2.3 Million

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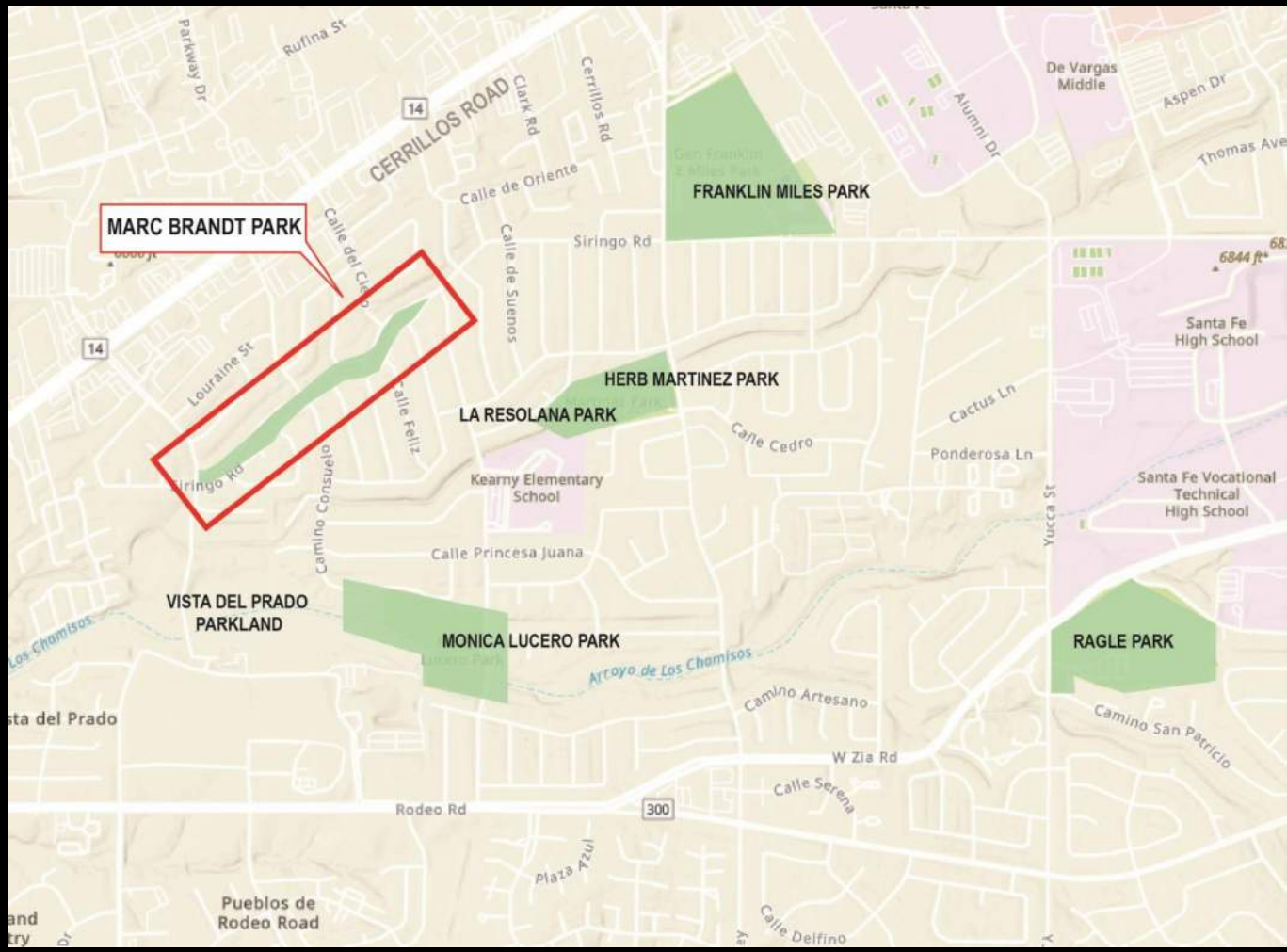
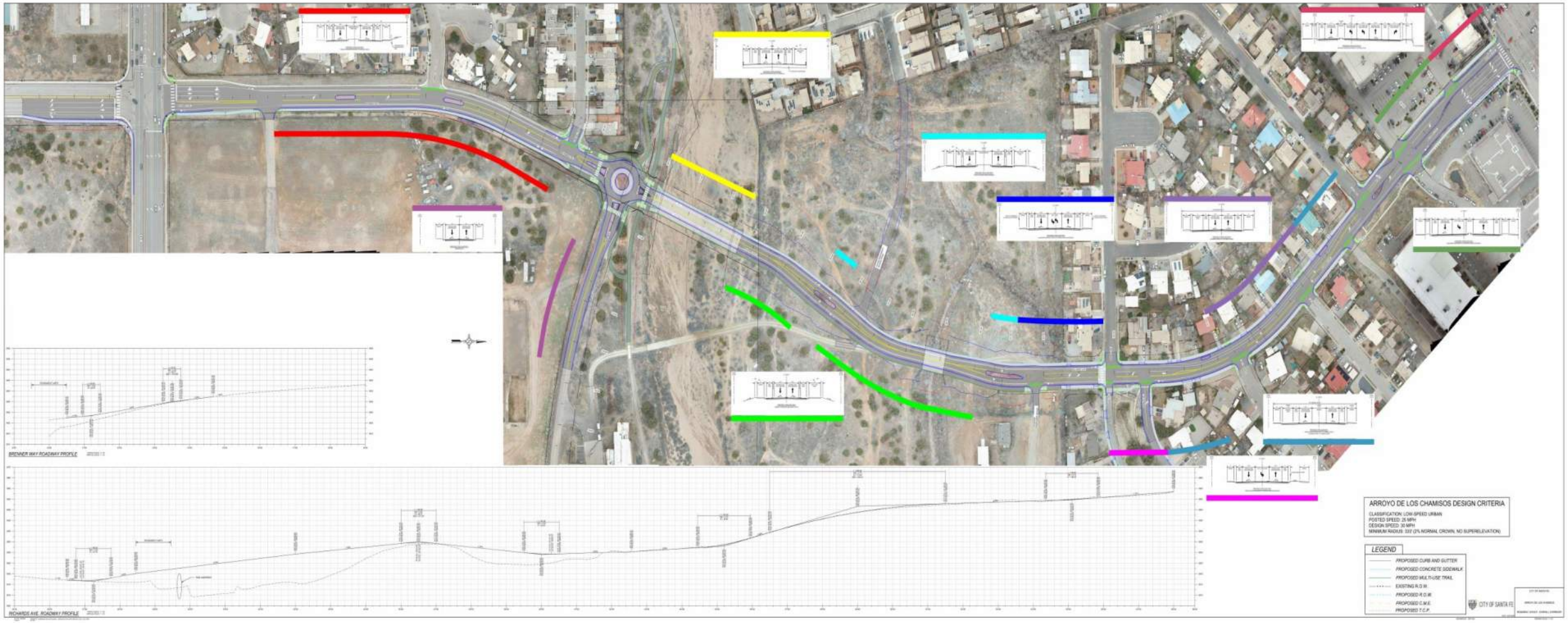
PROJECT BACKGROUND



Existing Conditions

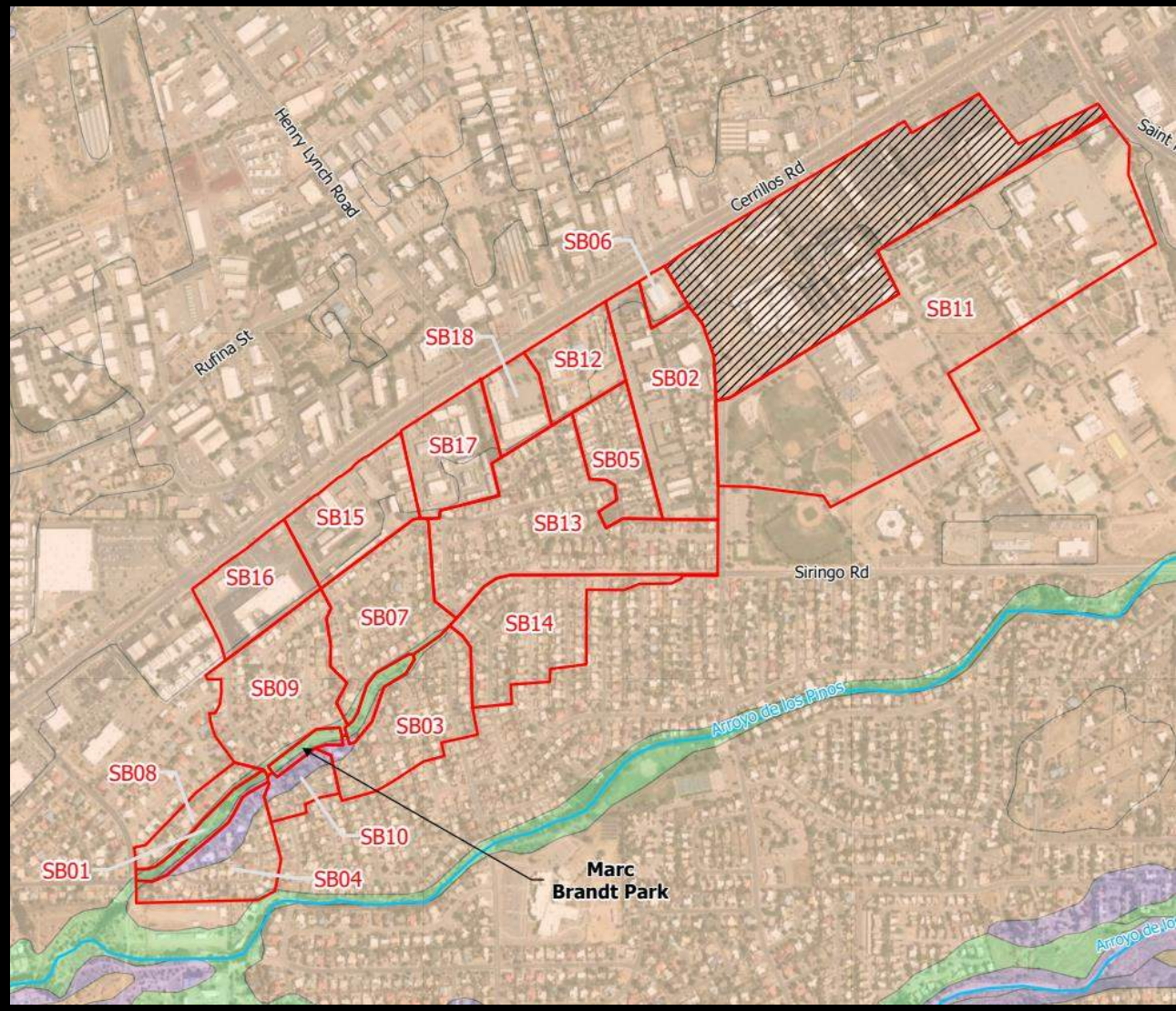
Project Background



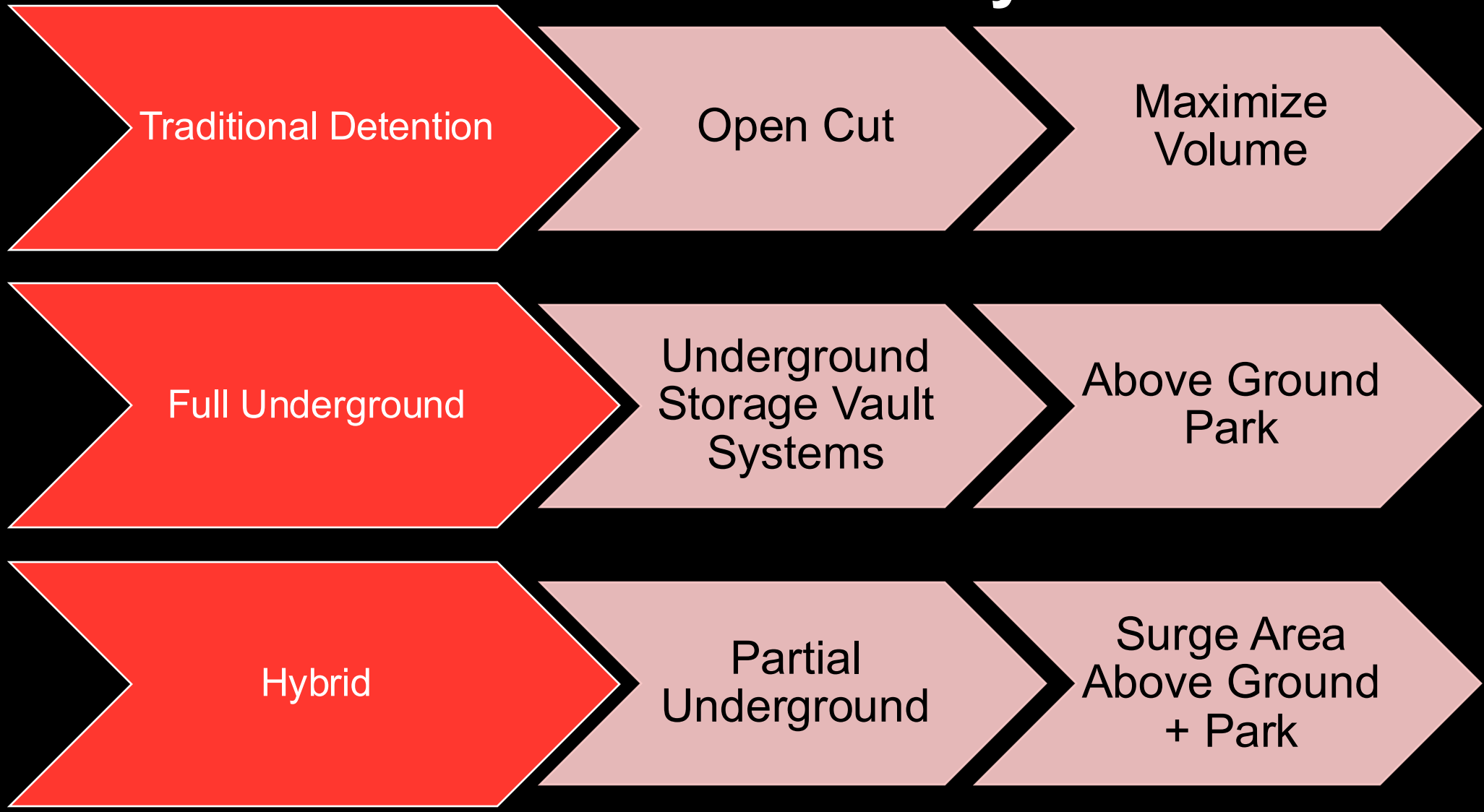
DESIGN APPROACH

KEY PARAMETERS

Watershed Size: 0.5 Square Miles
Development Type: Urban
Peak Flow: 514 cfs
Downstream Constraints

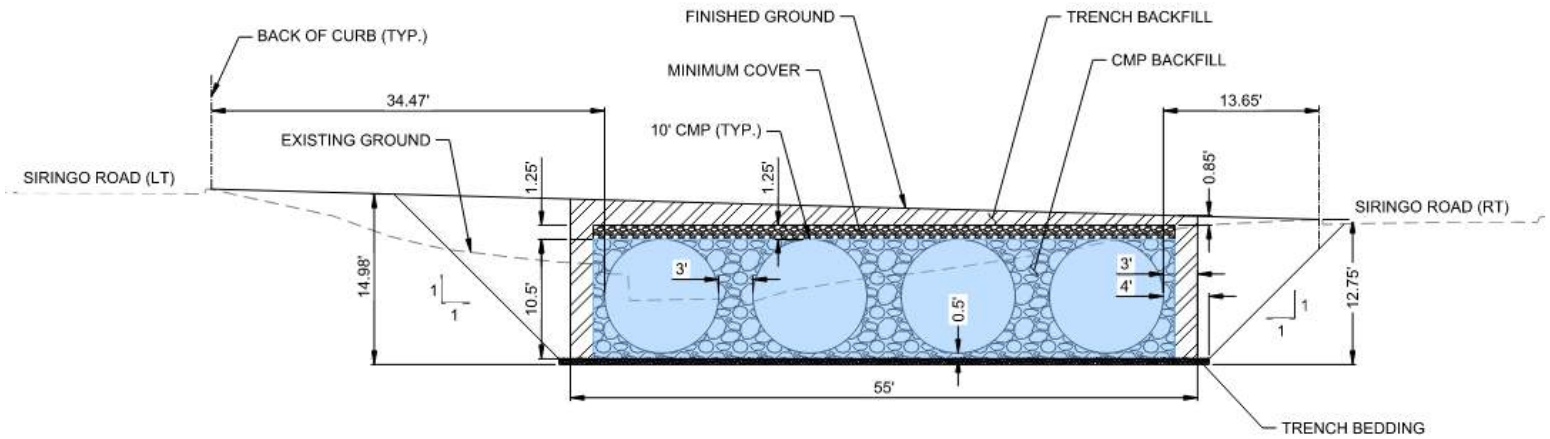


Alternatives Analysis



Alternatives Analysis

- Underground Storage
  - Concrete Tanks
  - Corrugated Metal Pipe
- Constructability
- Cost
- Maintenance
- Hydraulic Performance



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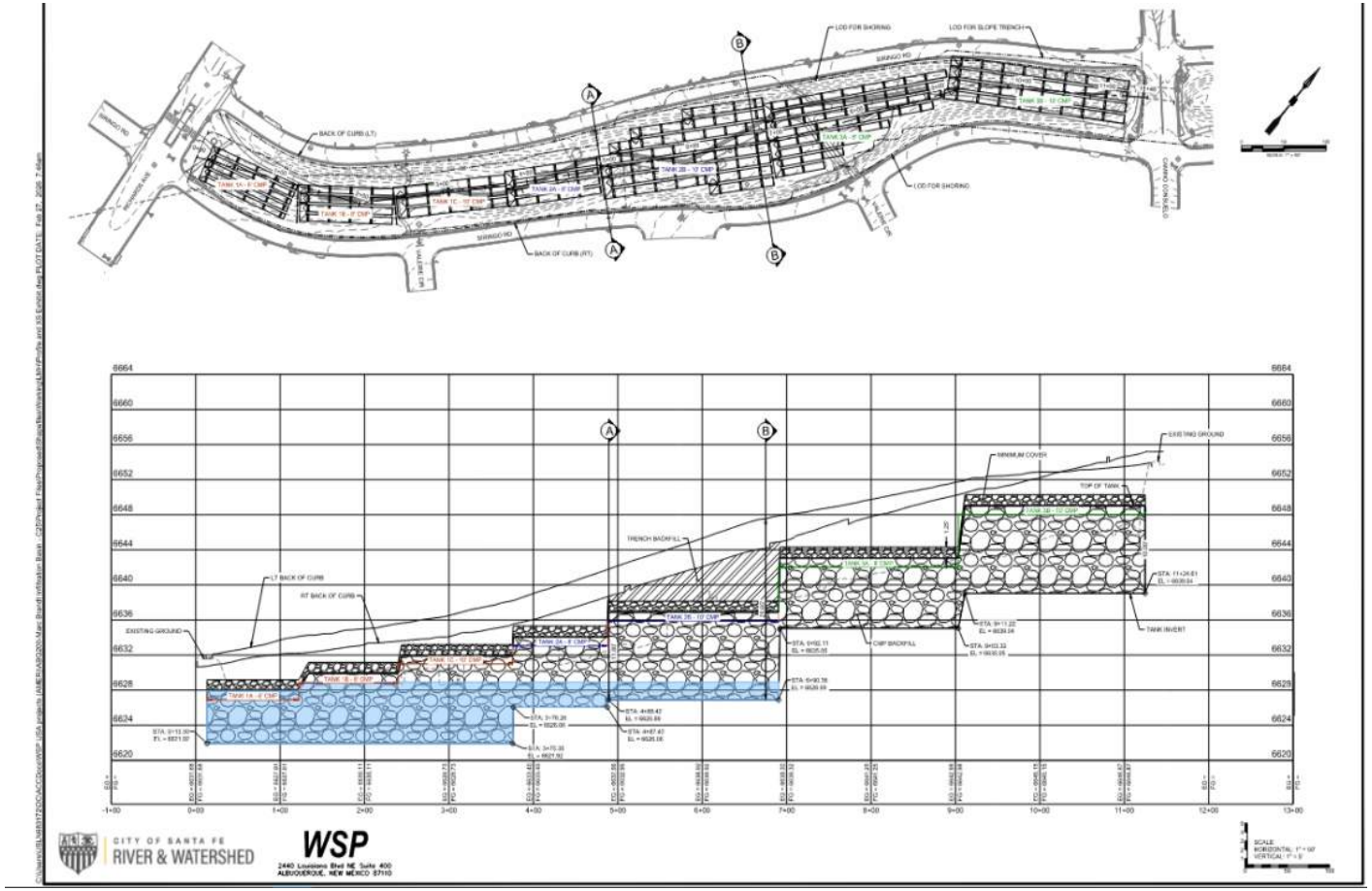
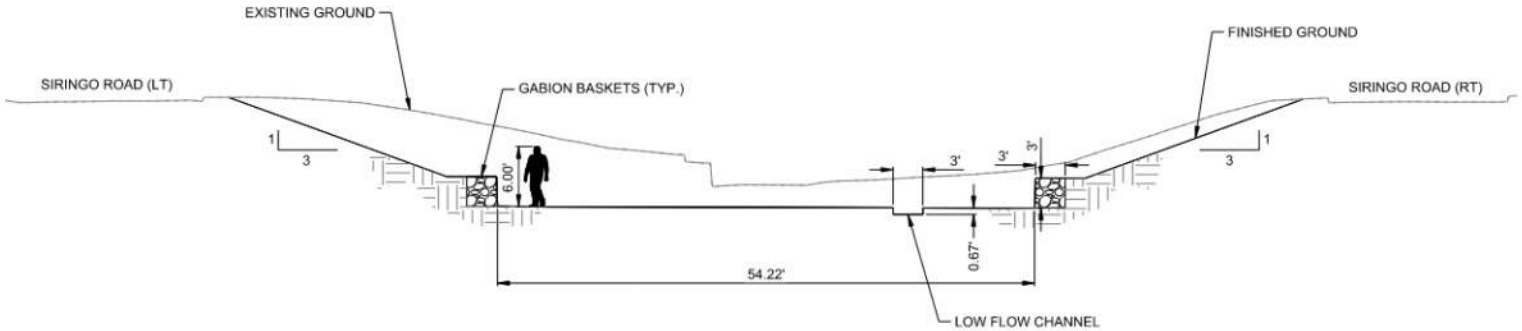
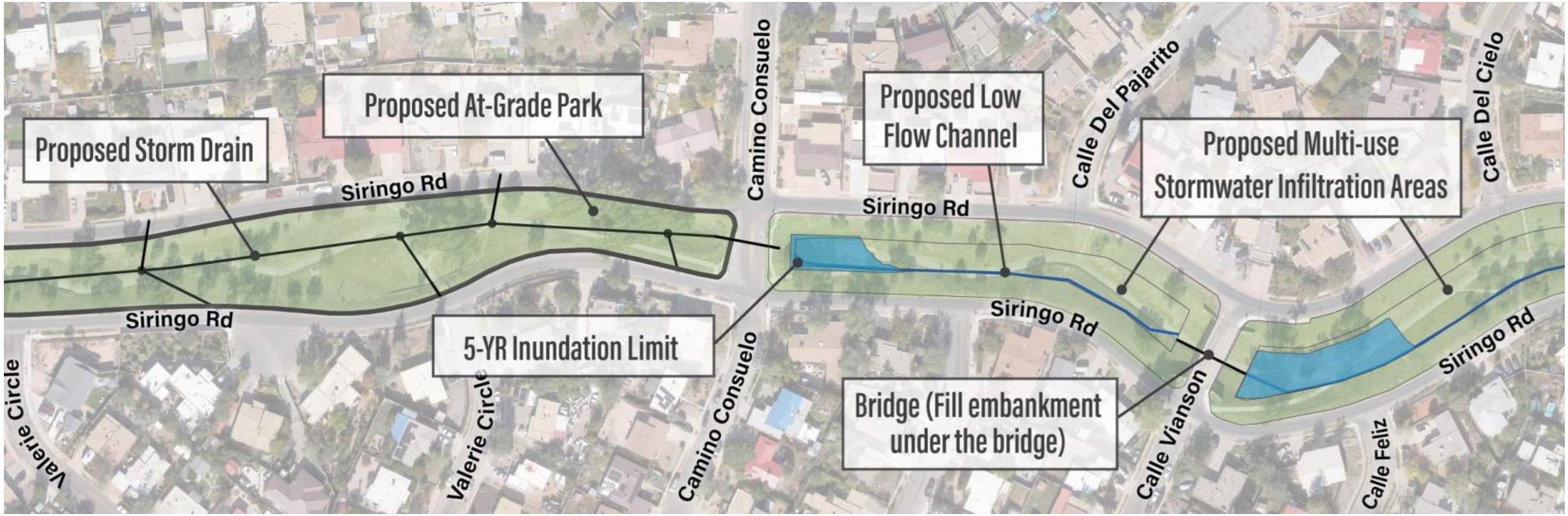


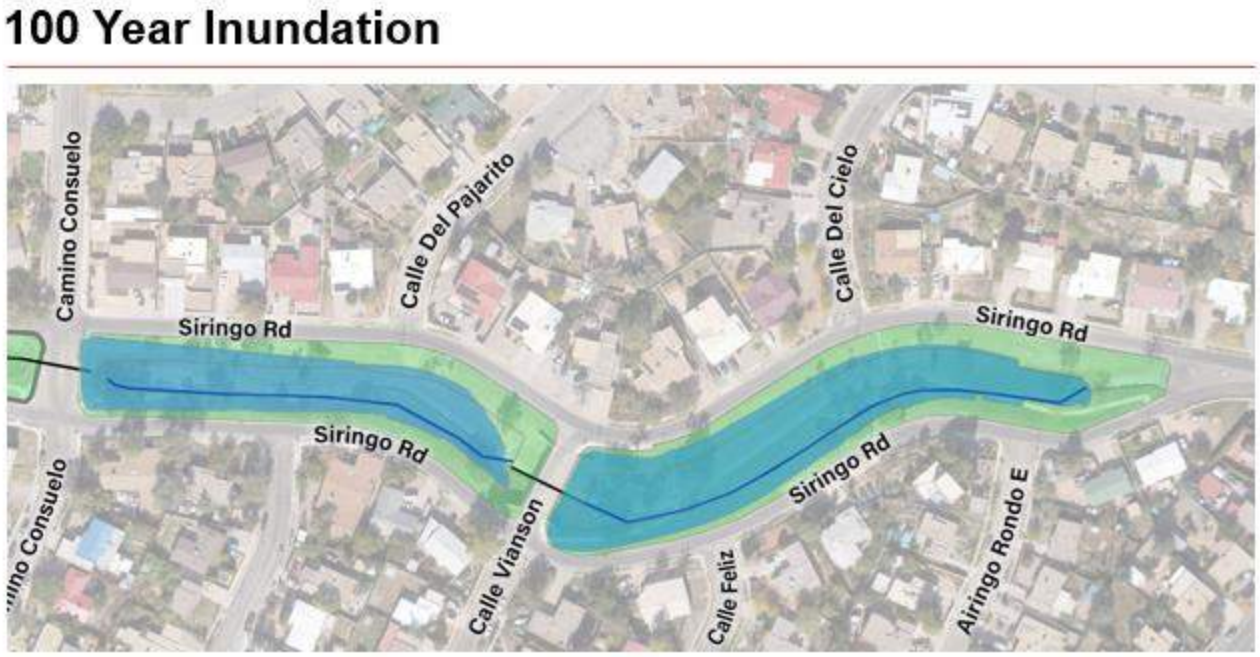
Selected Alternative





Proposed Improvements

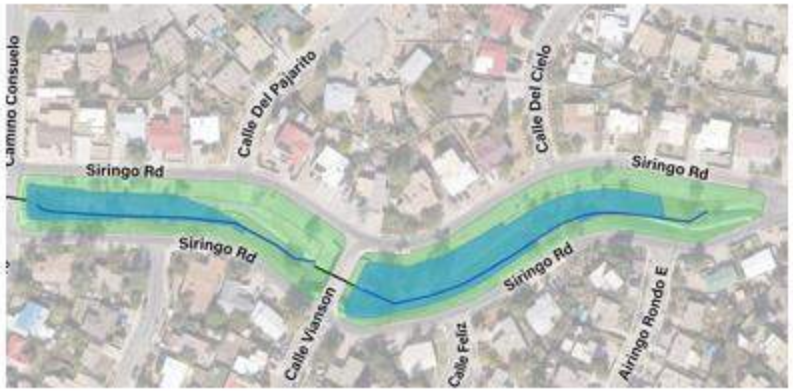
» 100-Year Storm Hydraulic Performance
  » Inflow: 514 cfs
  » Outflow: 200 cfs
  » Total Storage Volume: 9.1 ac-ft
» Downstream Impacts



Inundation Limits

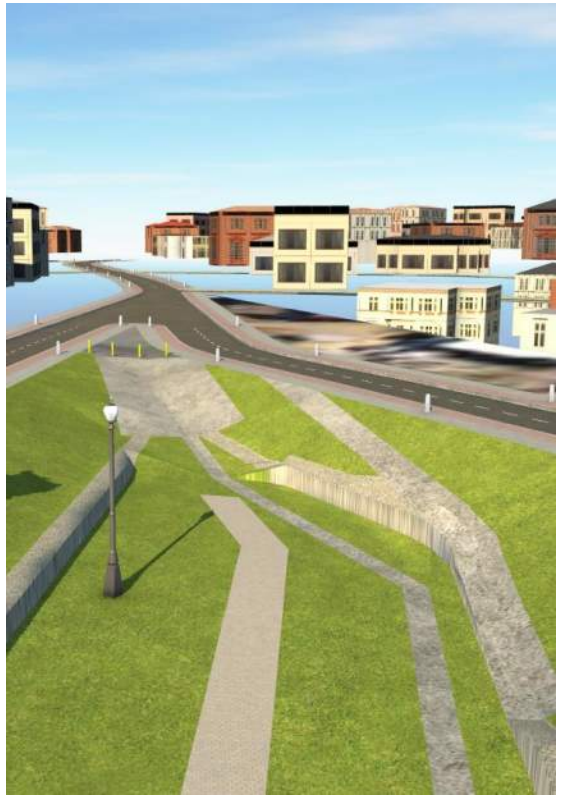
5 Year Inundation

25 Year Inundation

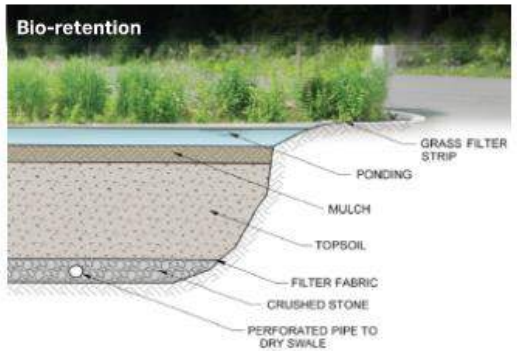


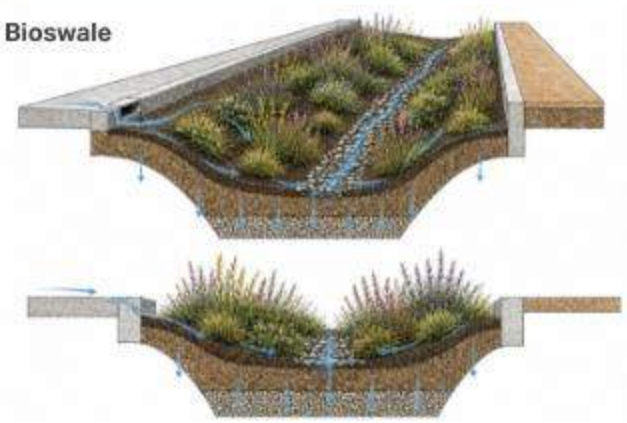
50 Year Inundation

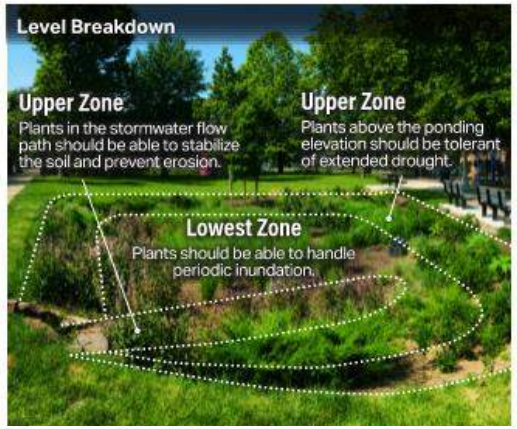
Selected Alternative



Green Stormwater Infrastructure (GSI)







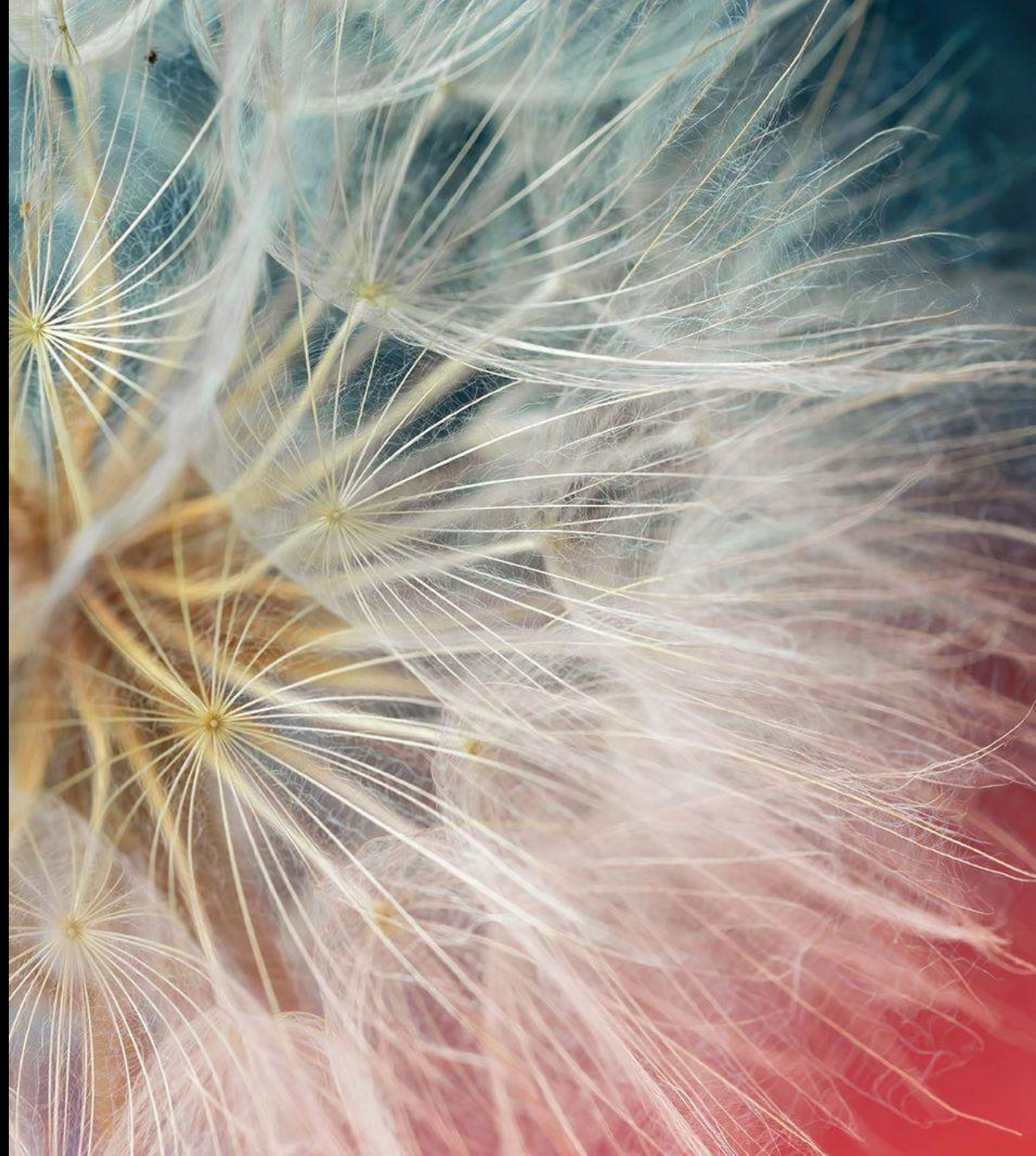
Locally Adapted Plants

Native plant species are plants that naturally occur in a specific region and are adapted to the local climate, soils, and wildlife.

Drought-tolerant plants are adapted to dry conditions and need less water once established, making them ideal for conserving water while supporting healthy landscapes.

THANK YOU

CITY OF SANTA FE
PARKS & OPEN SPACE

Dekker
Architecture in Progress

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