

Caño Martin Peña, Puerto Rico

Green Infrastructure Typologies

Environmental Protection Agency
Office of Sustainable Communities
&
Office of Research & Development

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Smart Growth Implementation Assistance

Goals:

- Supporting communities interested in implementing smart growth policies.
- Identifying common barriers and opportunities for smart growth development.
- Creating tools other communities can use.





- Smart Growth Implementation Assistance
- Cano Martin Pena Partners
- Design Process and Charrettes
- Two Site Design Examples

Community and Federal Partners



**U.S. Army Corps
of Engineers®**



análisis

Zona Inundable

Eventos de 100 años

BARRIO OBRERO OESTE

BARRIO OBRERO SAN CIPRIÁN

BARRIO OBRERO MARINA

BUENA VISTA SANTURCE

PARADA 27

LAS MONJAS

BUENA VISTA HATO REY

ISRAEL BITUMUL

UBICACIONES DE SITIOS A INTERVENIR

85% DE LAS COMUNIDADES DEL CAÑO ESTÁN DENTRO DE LA ZONA INUNDABLE DE EVENTOS DE 100 AÑOS

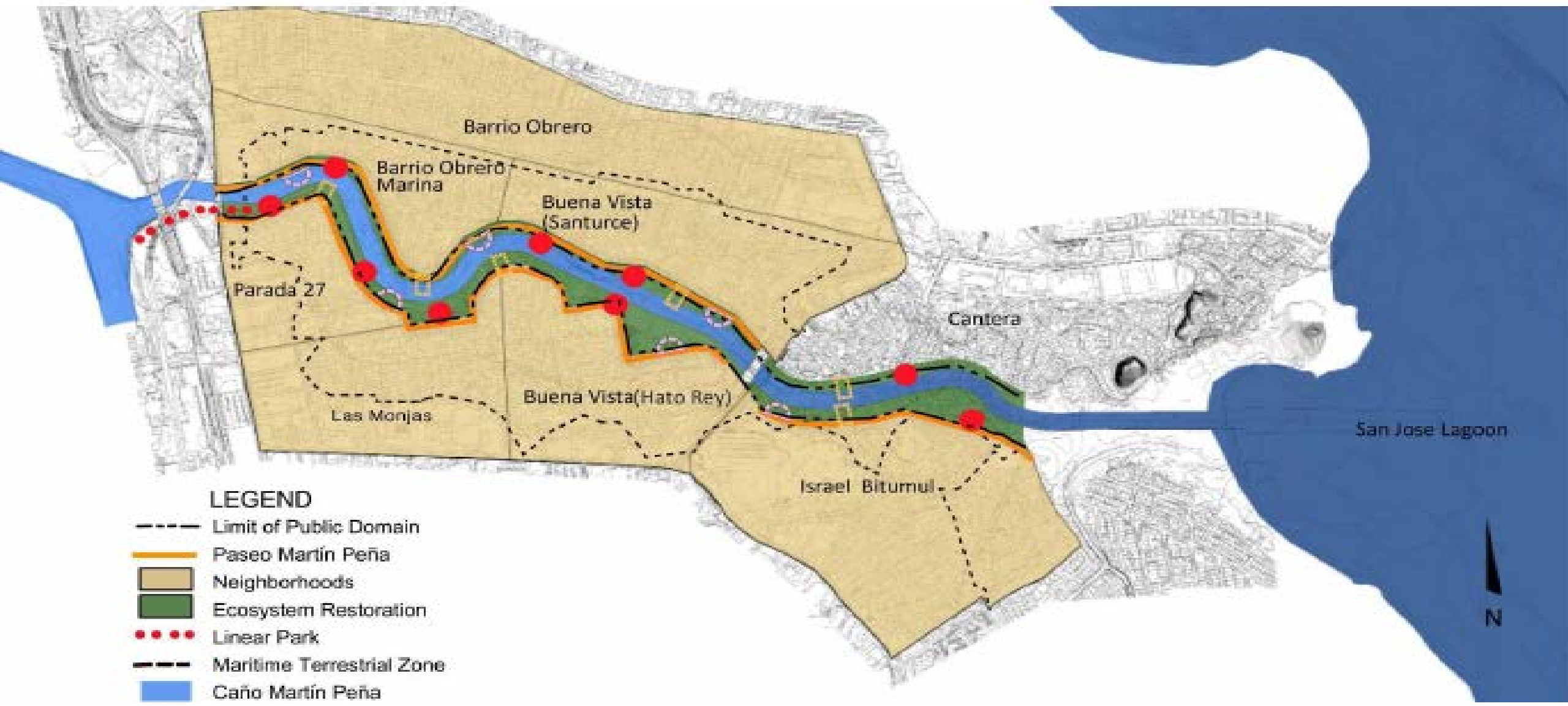


The background image shows a rural settlement with several houses built on stilts. The houses have corrugated metal roofs and walls. In the foreground, there is a shallow water channel with some debris and a small structure. The scene is surrounded by lush green vegetation, including palm trees and various shrubs.

GOALS

1. Create Land Use Plan
2. Implement Sewage System
3. Dredge the Channel
4. **Design Stormwater Management Facilities**
5. Relocate homes in high risk flood zones
6. Prevent Displacement

Master CMP Restoration Plan



LEGEND

- Limit of Public Domain
- Paseo Martín Peña
- Neighborhoods
- Ecosystem Restoration
- Linear Park
- Maritime Terrestrial Zone
- Caño Martín Peña

MANEJAR EL AGUA
PLUVIAL



MEJORAR LA EXPERIENCIA DE
CAMINAR Y ANDAR A BICICLETA



MEJORAR LOS BIENES
COMUNITARIOS



MEJORAR LA SALUD

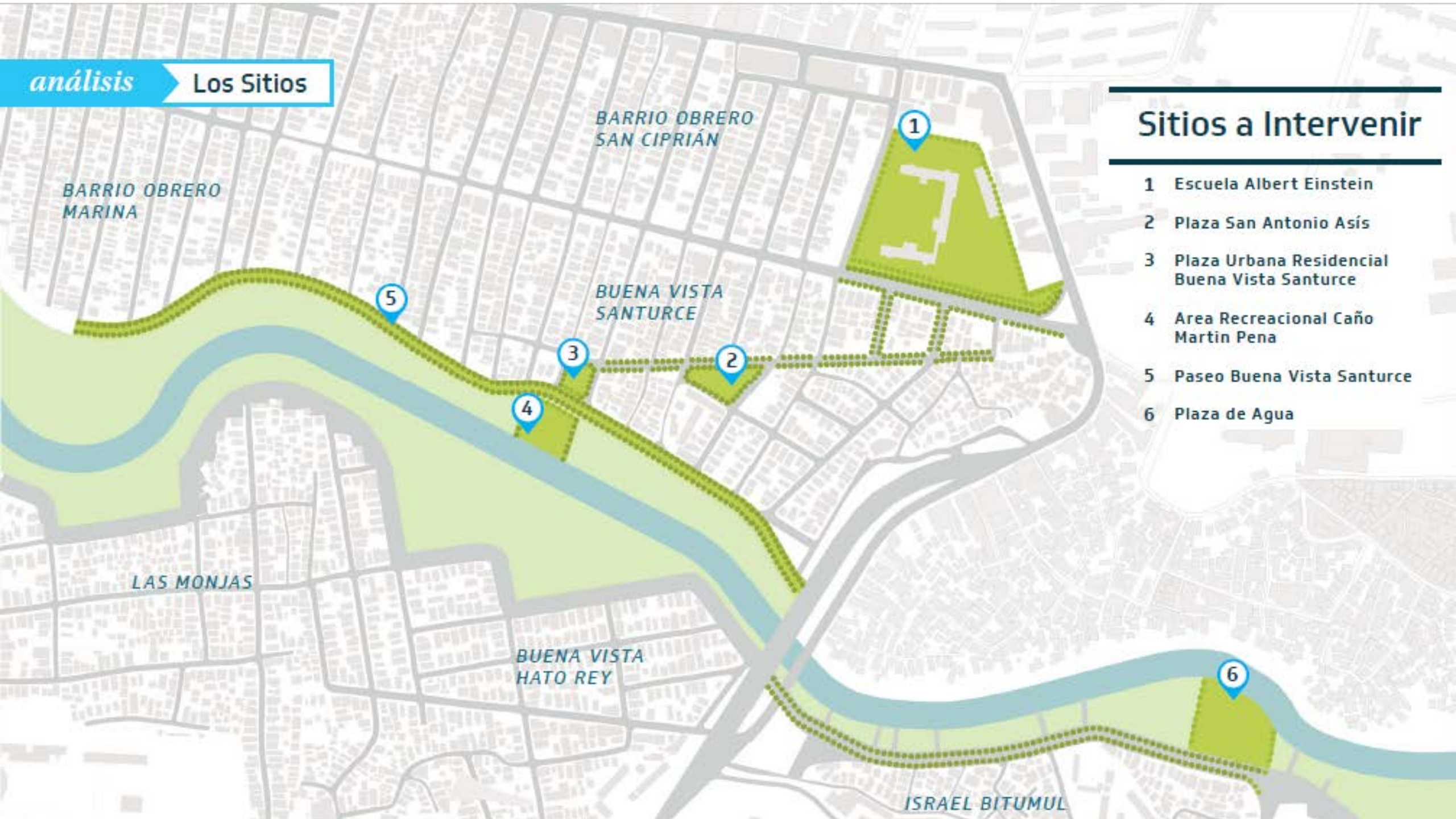


PROMOVER LA IDENTIDAD Y EL
CARÁCTER DE LA COMUNIDAD



APOYAR EL DESARROLLO
PRIVADO Y LOCAL

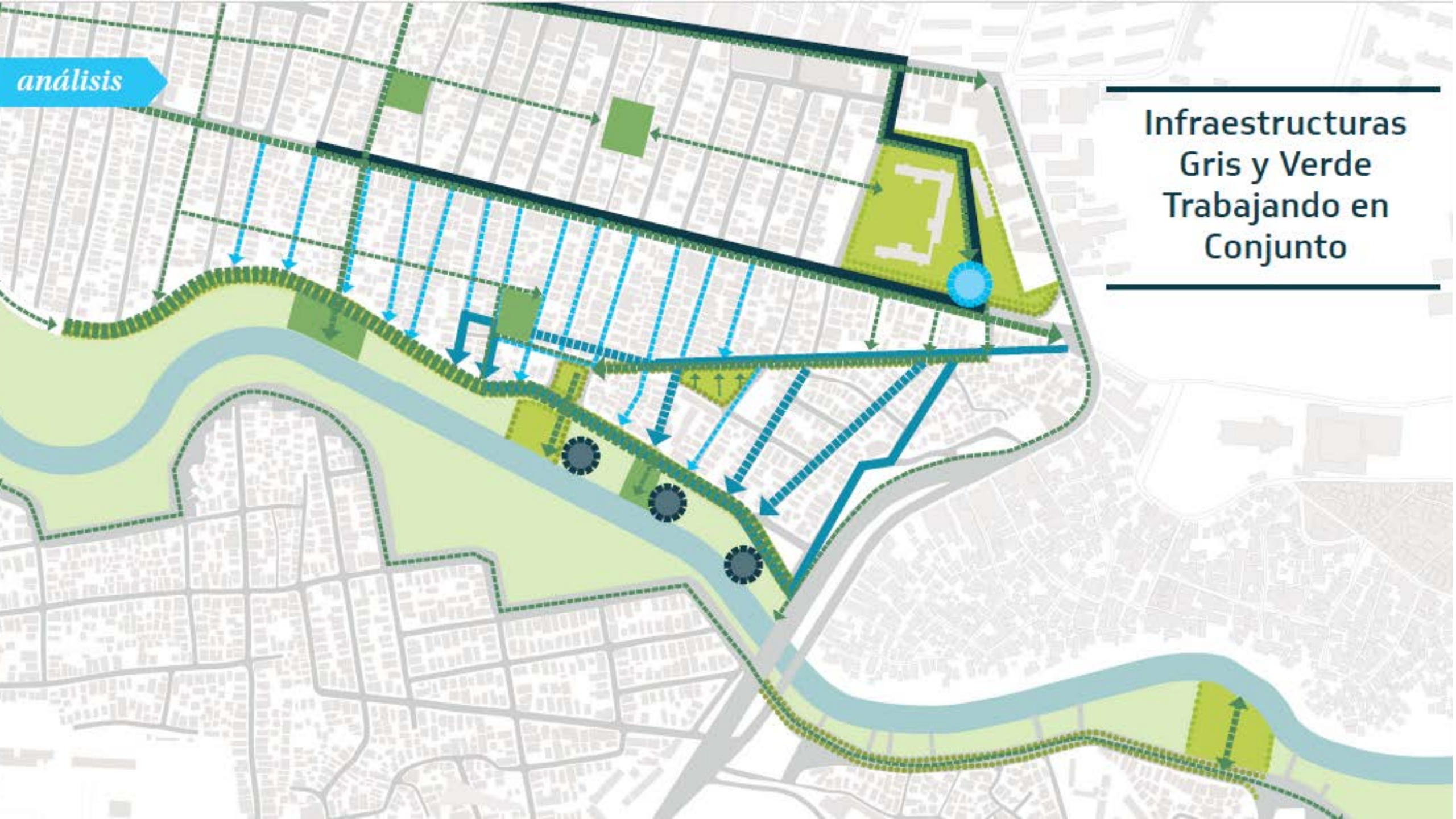




Sitios a Intervenir

- 1 Escuela Albert Einstein
- 2 Plaza San Antonio Asís
- 3 Plaza Urbana Residencial Buena Vista Santurce
- 4 Area Recreacional Caño Martín Peña
- 5 Paseo Buena Vista Santurce
- 6 Plaza de Agua

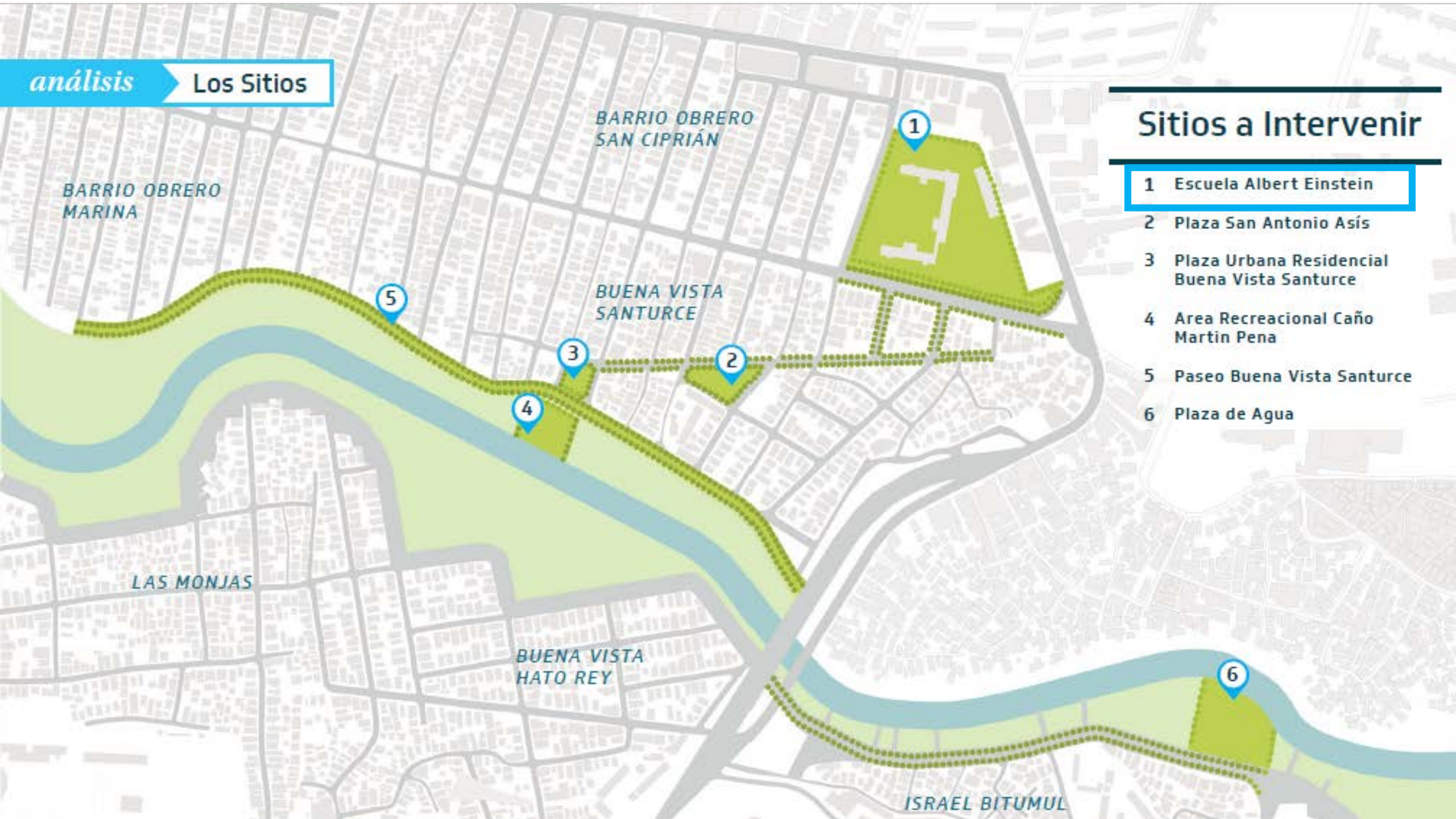
análisis



Infraestructuras
Gris y Verde
Trabajando en
Conjunto

Design Charrette Stakeholder Sessions and Public Meetings





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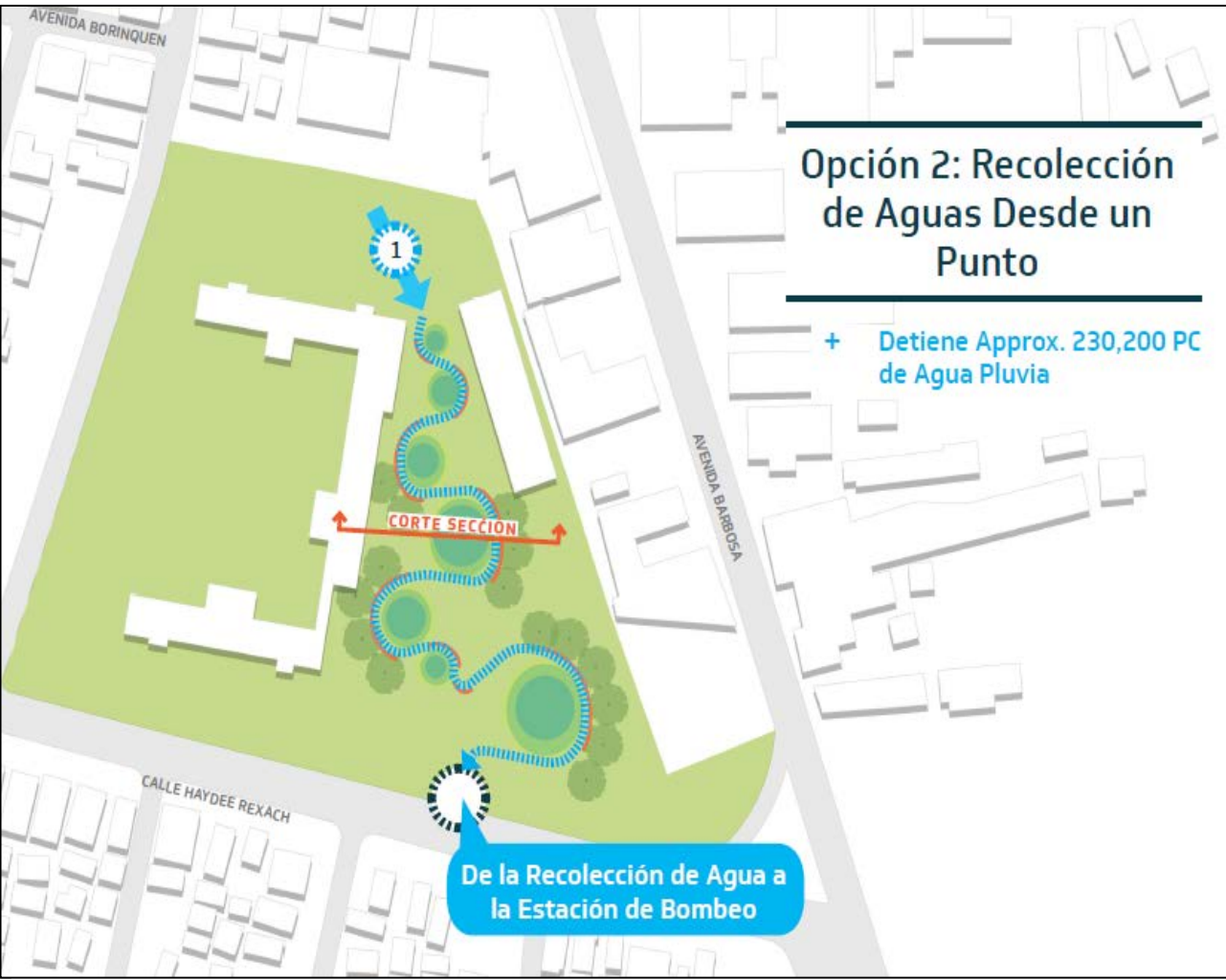
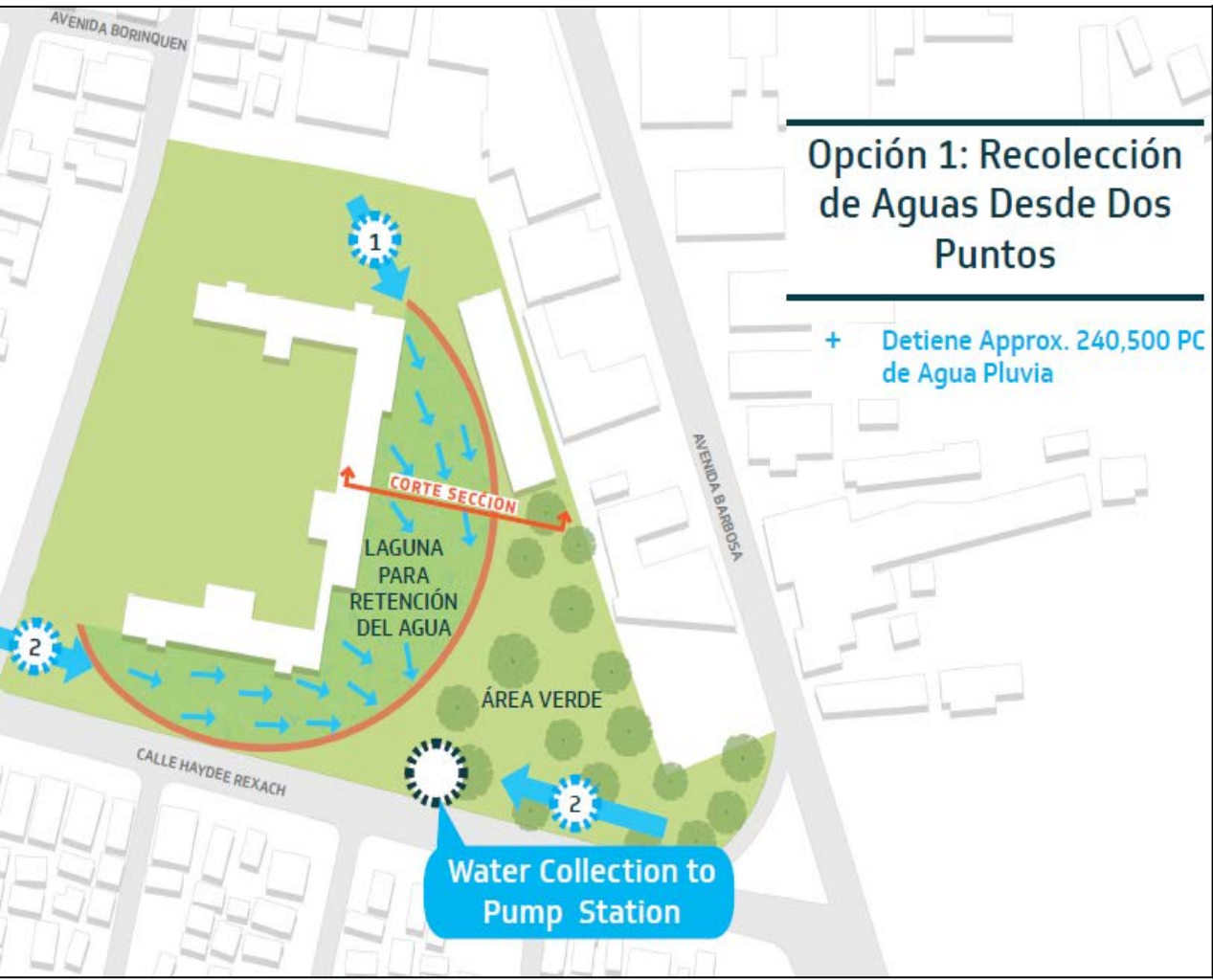
análisis

Análisis de Recolección de Aguas



De la recolección de agua a la estación de bombeo

Proposed School Designs



Proposed Stormwater Management on Site

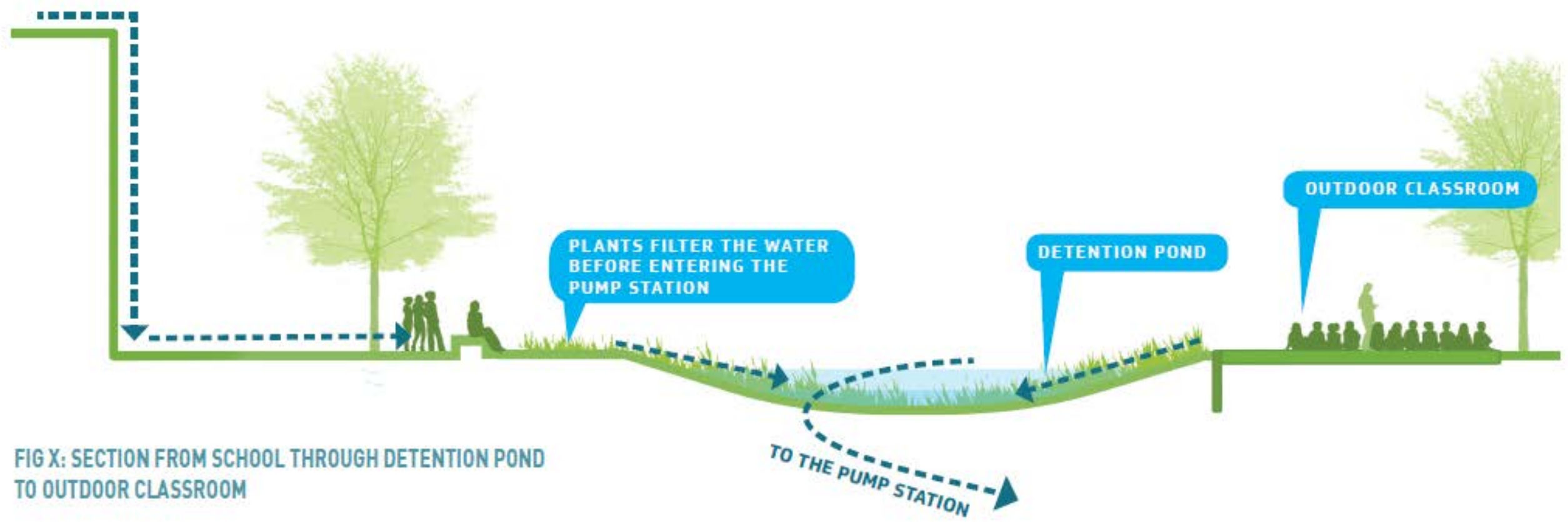
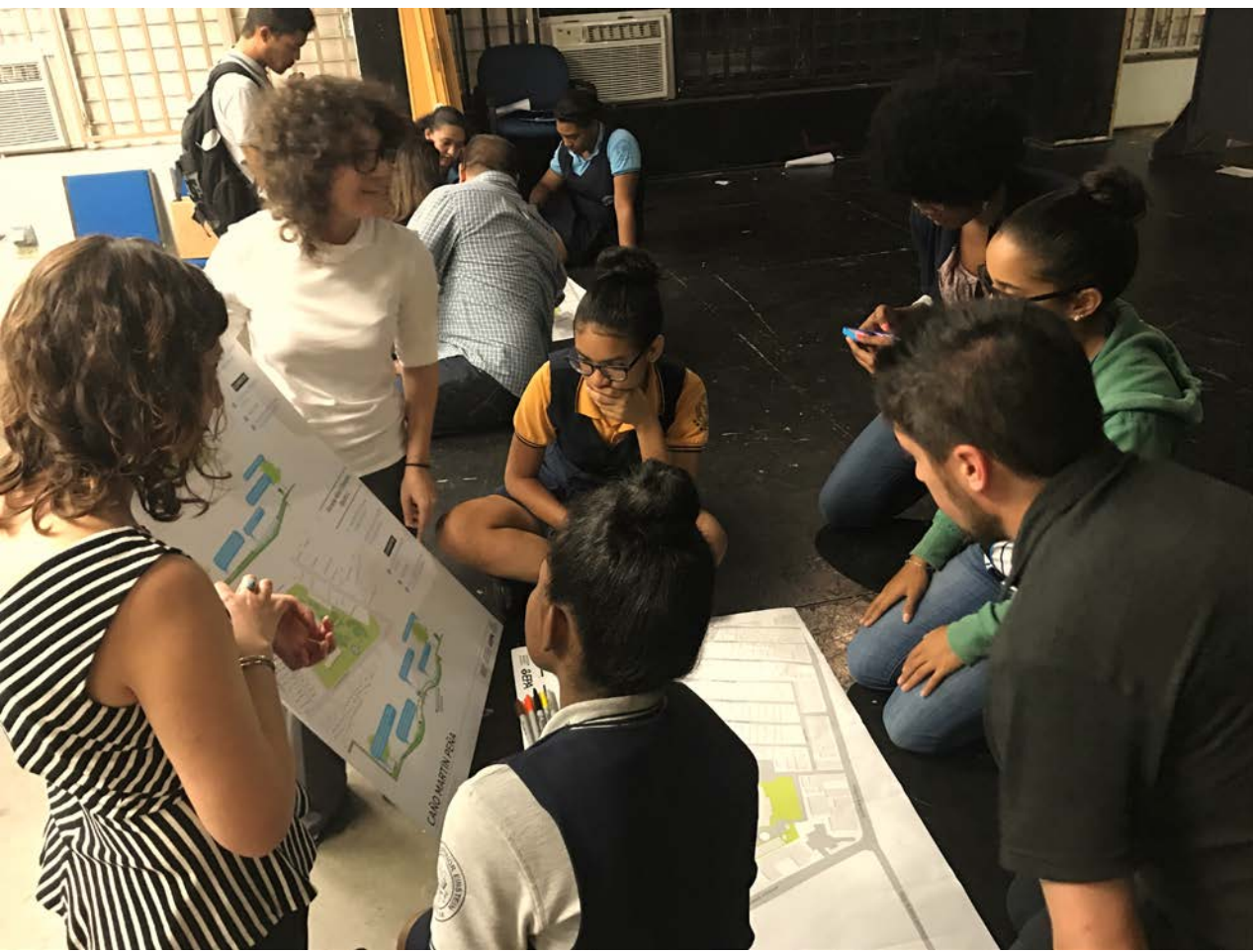


FIG X: SECTION FROM SCHOOL THROUGH DETENTION POND TO OUTDOOR CLASSROOM

Student Feedback Workshop

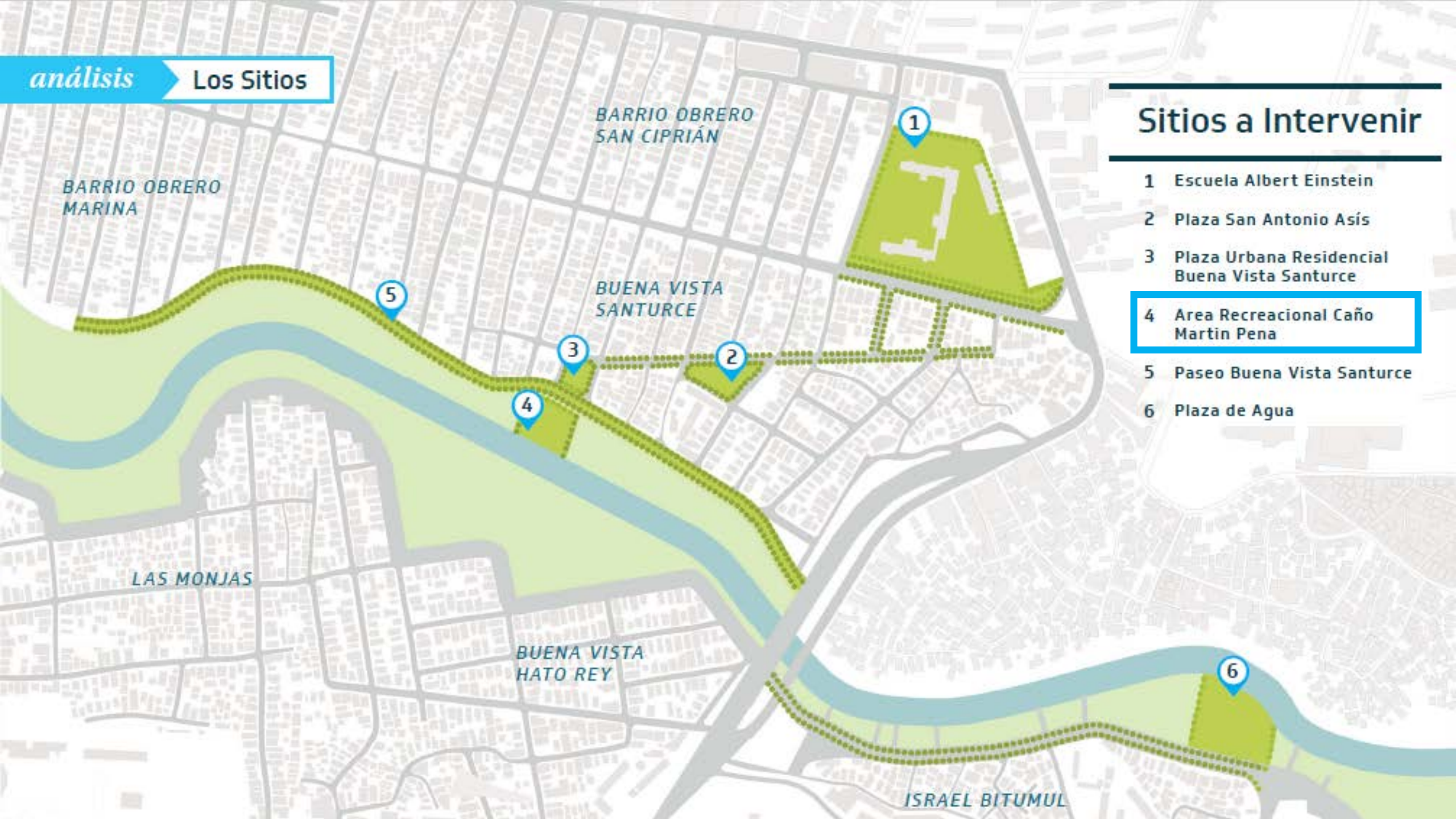


Existing Site Conditions



Proposed Design



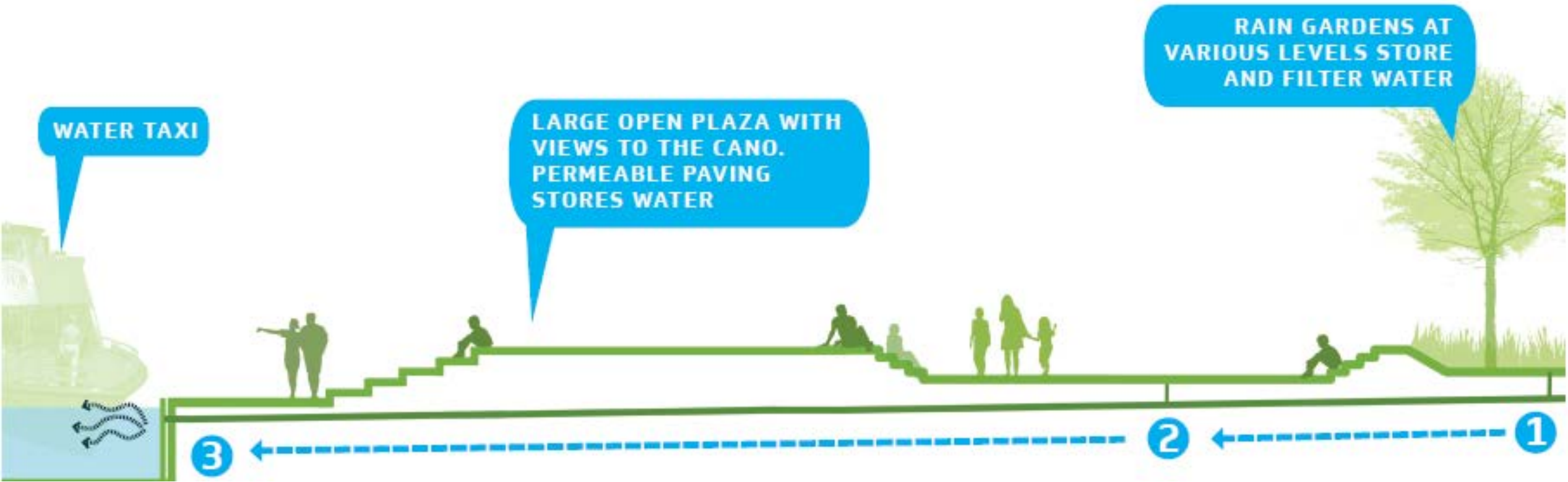


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Proposed Stormwater Management on Site



Proposed Design



Thank you!



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