



# ST ANTHONY GREEN STREETS

Resilience Design Review Committee  
60% Design

November 19, 2019



# St. Anthony Green Streets

## Project Context

The St. Anthony Green Streets project is a neighborhood scale streets project within the Gentilly Resilience District. The GRD and this project are funded by HUD's National Disaster Resiliency Competition.

## Project Area

The project area is bounded by the London Avenue Canal, Robert E Lee Boulevard, St. Anthony Street, and Mirabeau Avenue. The priority streets are Wildair Drive and Wingate Drive and priority green spaces are Gatto and Filmore Playgrounds.

## Design Team

Batture, LLC  
Asakura Robinson  
Eustis Engineering  
Greenpoint Engineering  
Life City  
MIG | SvR  
Royal Engineers & Consultants  
Stantec





# St. Anthony Green Streets

## Site Conditions

- Ground is 6' to 8' below sea level
- Streets in poor condition
- Street flooding
- Lack of vegetation due to levee failure
- Drainage Pump Station 4 is directly adjacent to the neighborhood
- Several structures below base flood elevation, though there has been a significant amount of rebuilding in recent years

## Project Goals

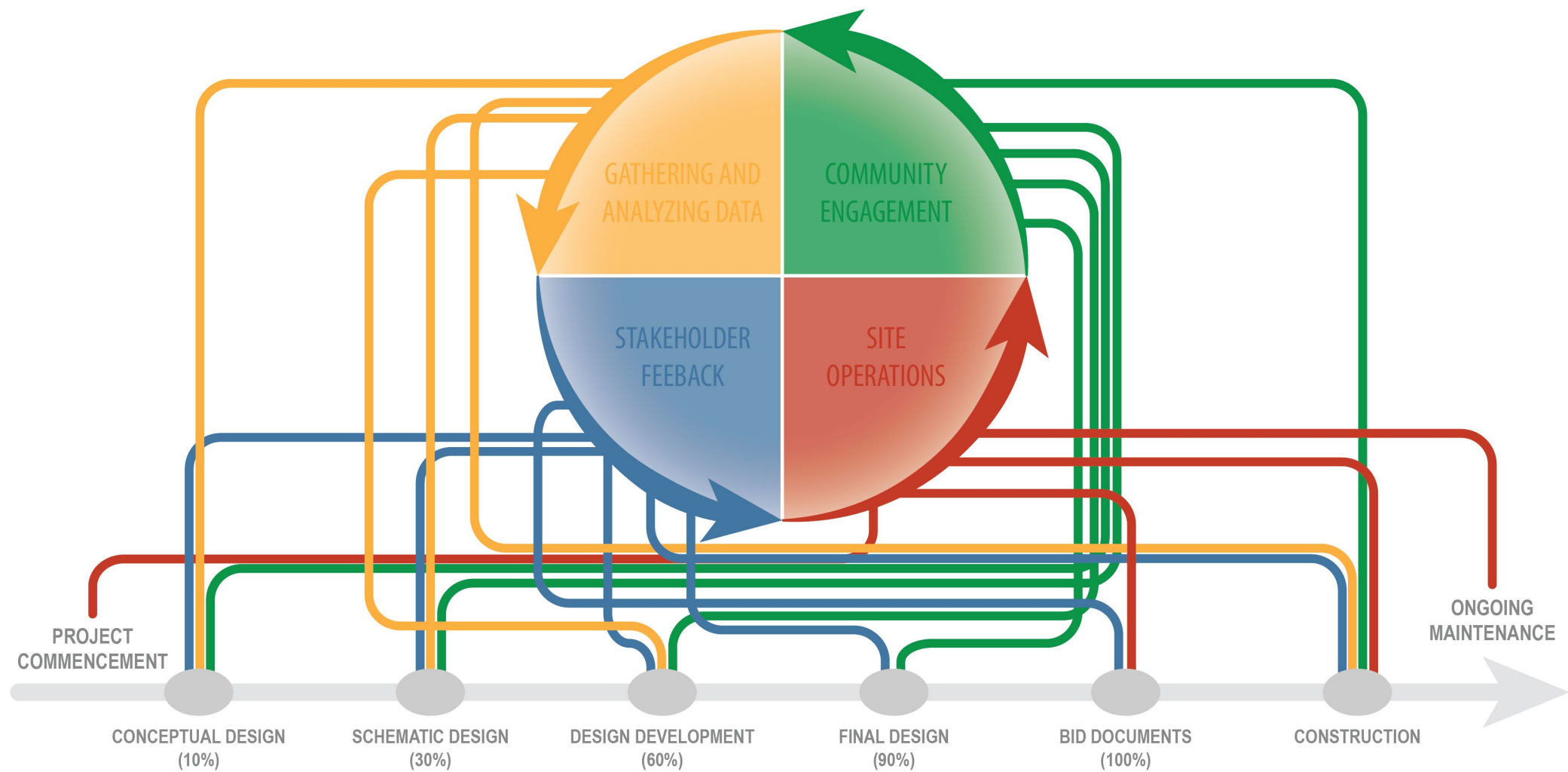
- Reduce Flooding
- Improve neighborhood recreation
- Create a model for resilient streets and parks across the city
- Engage with residents and encourage them to be involved in the design process
- Reduce heat island effect and promote recreation to increase the health of the neighborhood.
- Reduce subsidence

Open Space or Vacant Lots  
New Construction in past four years  
Structures Below Base Flood Elevation



# St. Anthony Green Streets

## Design Process





# St. Anthony Green Streets

## Community Driven Design Process

We strongly believe that we must meet the community members where they are comfortable, with means that will inspire their curiosity and imagination. We are implementing a three pronged community engagement approach: learning, visioning, and stewardship.

## Previous Engagement Events

11 Conceptual Design Phase Events (2018)

Multi-day Schematic Design Phase Event (March 2019)





# St. Anthony Green Streets

## Design Development Engagement Events

8/15/2019 – Mock-up of street section on Wingate Drive showing what the street-side rain gardens could potentially look like

8/17/2019 – Community Workshop on Placemaking and Design



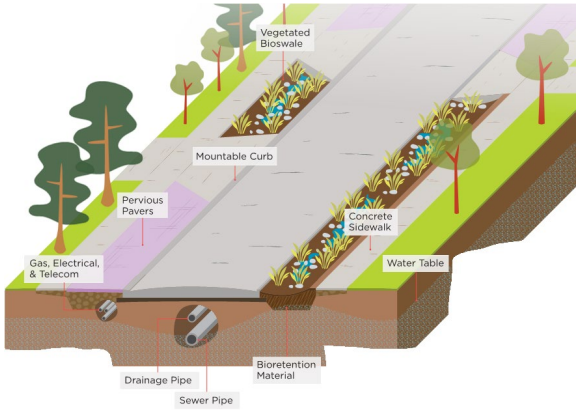


# St. Anthony Green Streets

## Design Development Engagement Events

8/22/2019 – Mock-up of street section on Wildair Drive, showing the proposed width of the street and the street-side rain gardens

8/24/2019 – Community Workshop on Maintenance and Stewardship



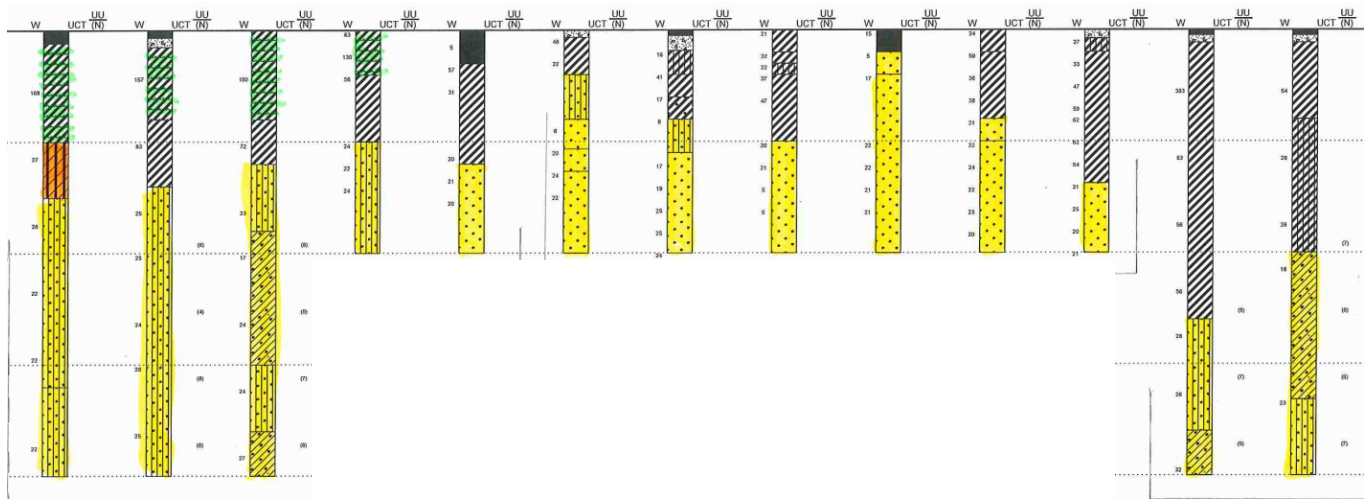


# St. Anthony Green Streets

## Data Gathering

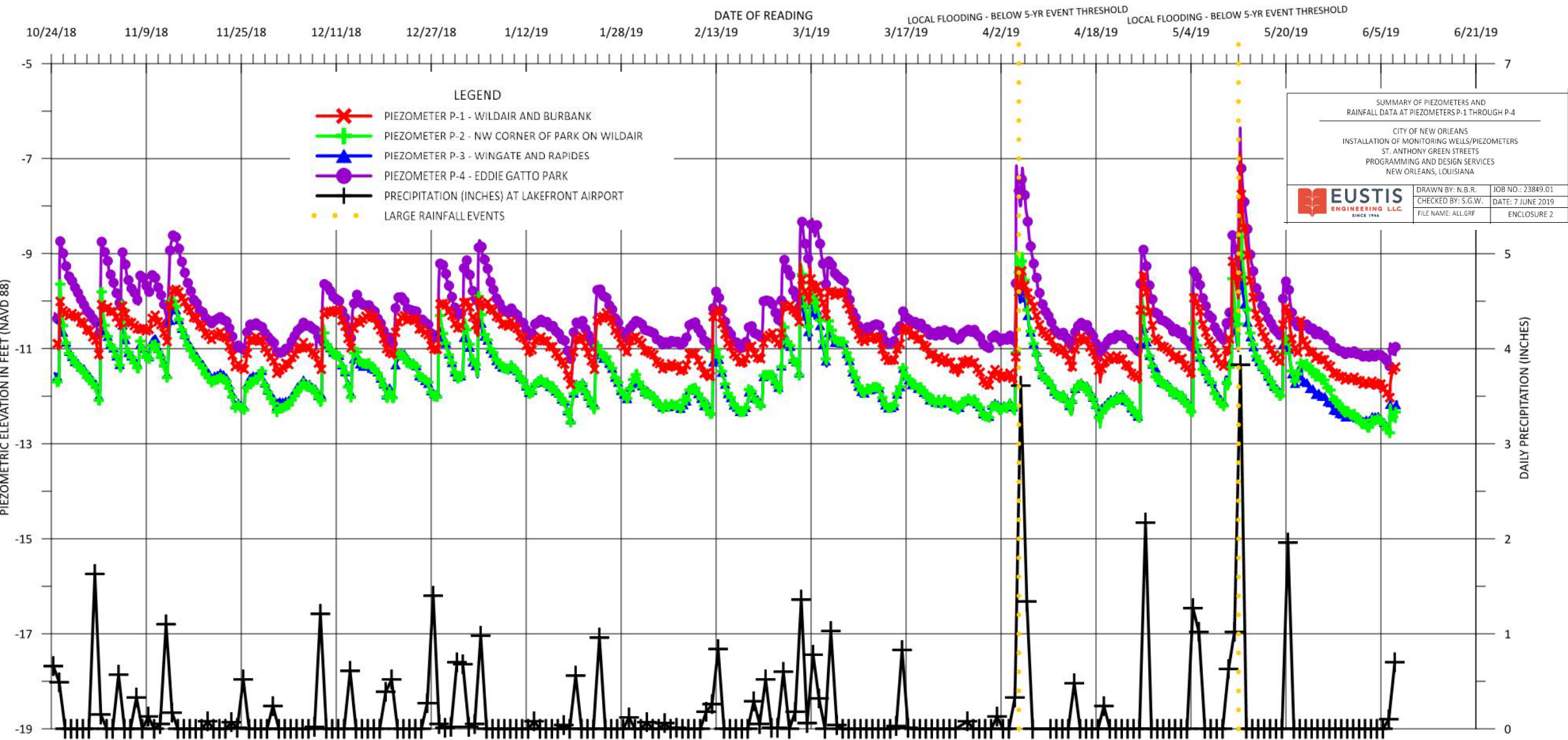


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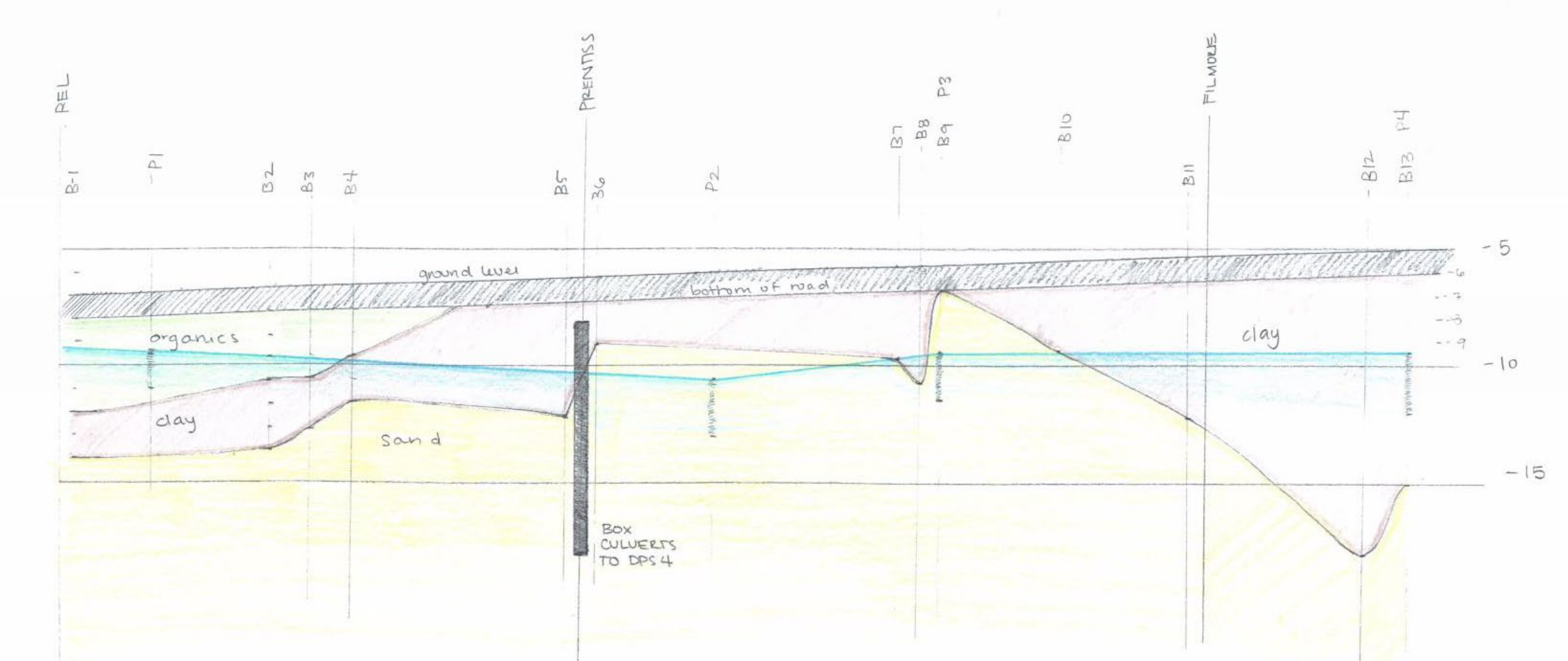




# St. Anthony Green Streets



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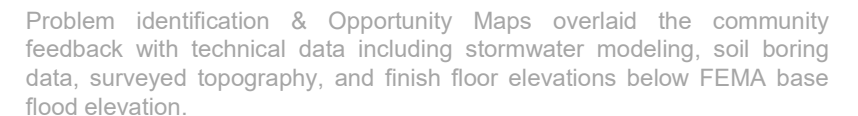




## Stormwater Modeling: Flooding Locations Agree with Community Input



- Looked at both depth and duration
- Community Feedback agreed with location of flooding modeling results for a 10 year storm Depth > 6" & Duration > 2 hrs
- Will continue to refine modeling and will coordinate with Blue-Green Corridors modeling.

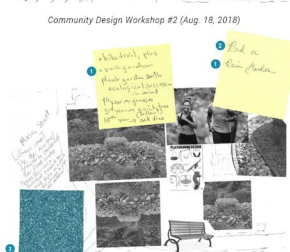
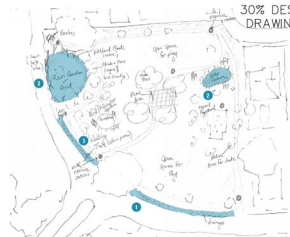
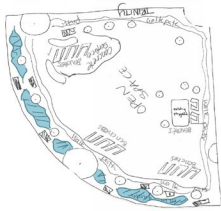
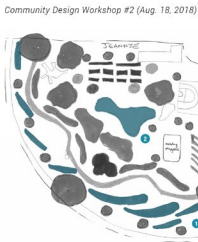
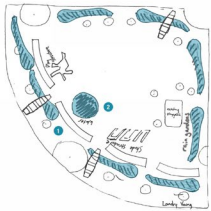
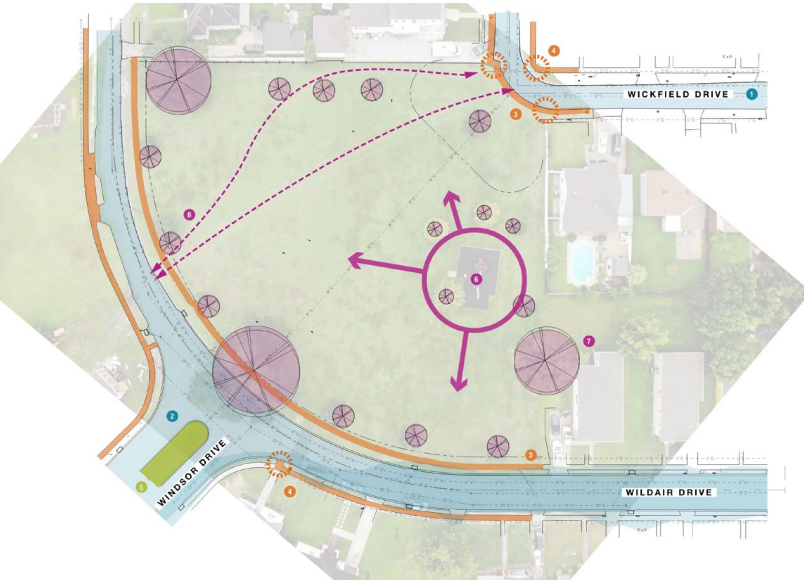




# St. Anthony Green Streets

## Conceptual Design Process

The project team had two full team charrettes following each of the community visioning events. During the first of these events, the design team processed the data from the community and our research and discussed how to turn it into prioritizations for the project. At the second charrette, the design team explored design solutions that built off designs from the visioning session.



COMMUNITY FEEDBACK

STORMWATER AT GATTO

- 1 Rain gardens around park edges, particularly Wildair
- 2 Permeable paving
- 3 Retention pond or element with occasional standing water



CITY OF NEW ORLEANS



GENTILLY  
**Resilience**  
DISTRICT



**BATTURE** LLC  
engineers + land surveyors

Issue Date: 11/19/2019





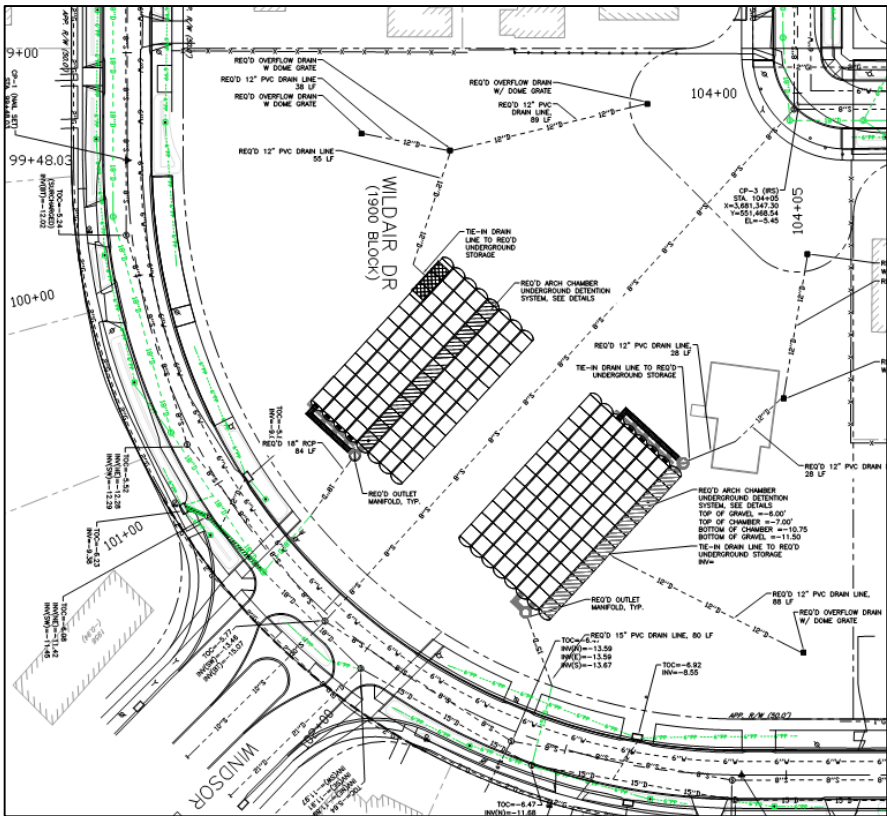
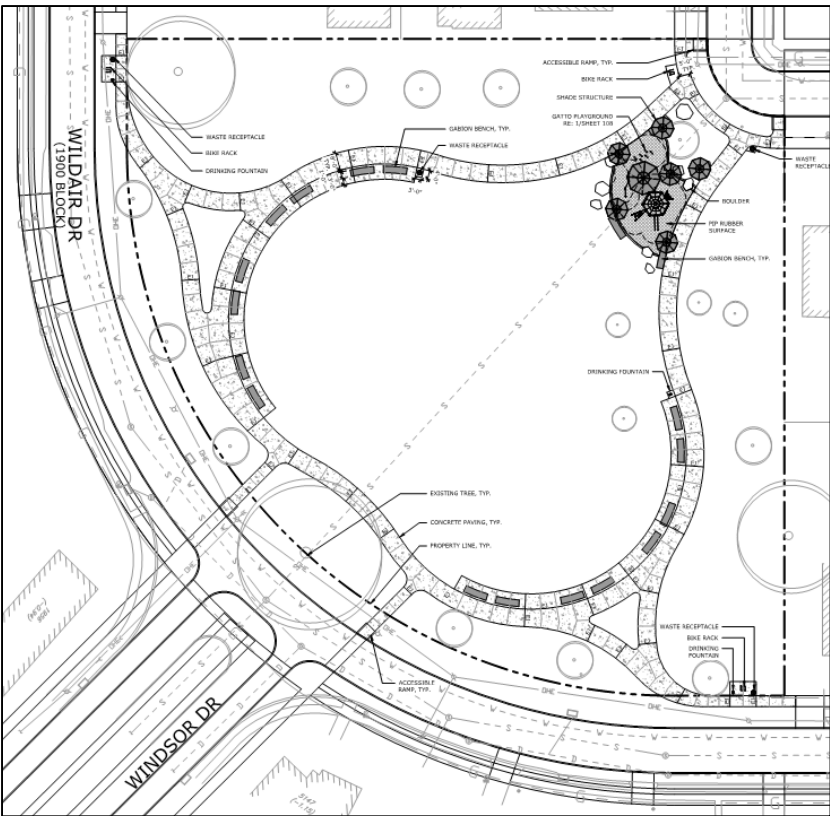
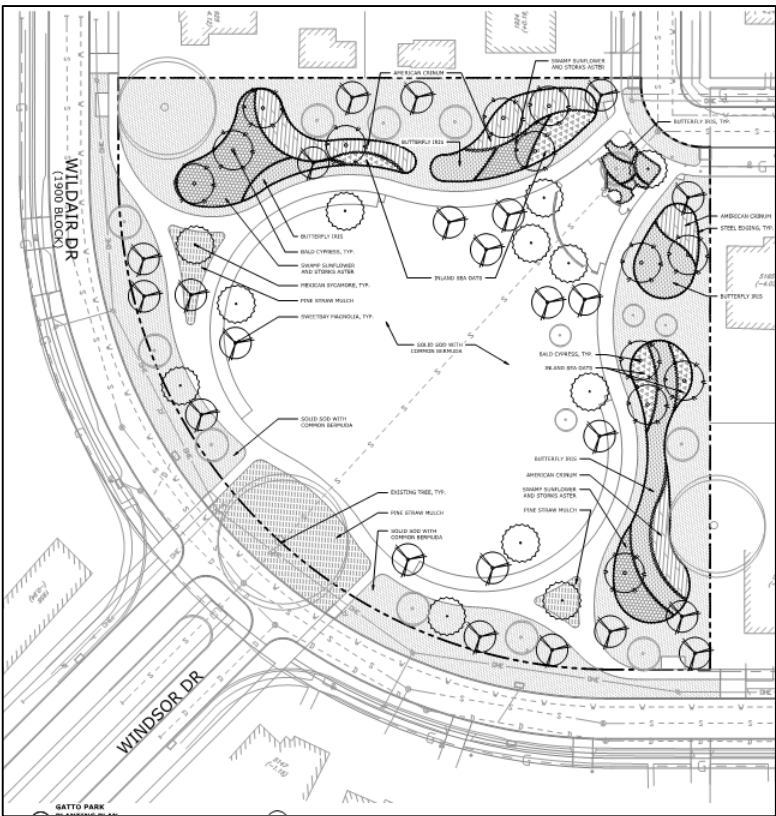




# St. Anthony Green Streets

## Design Development

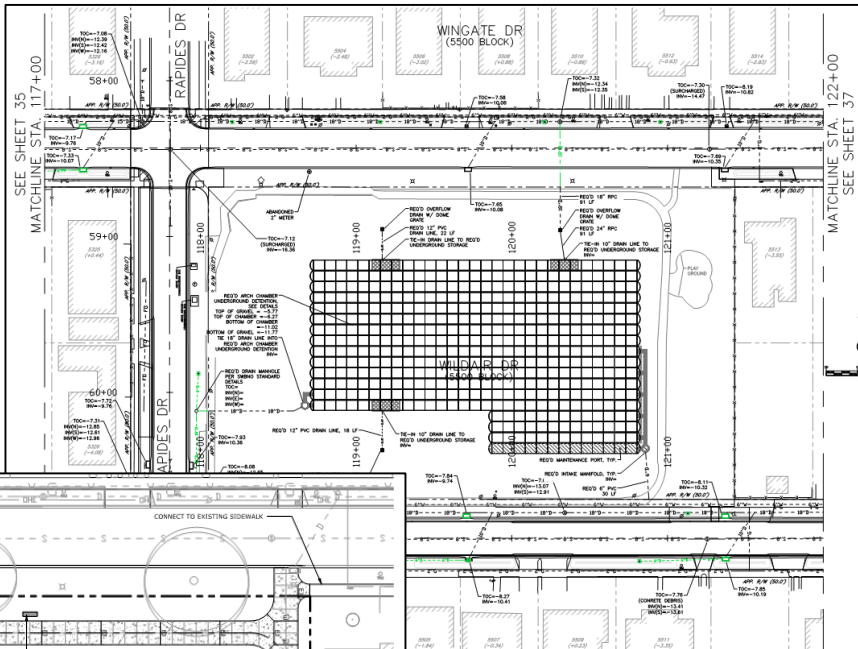
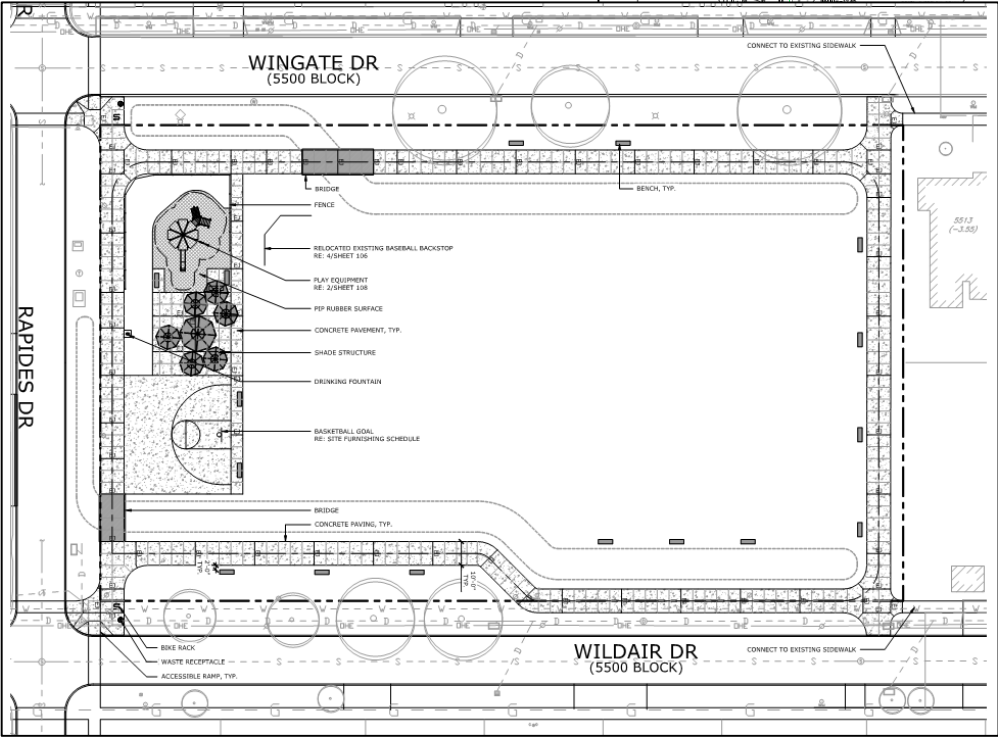
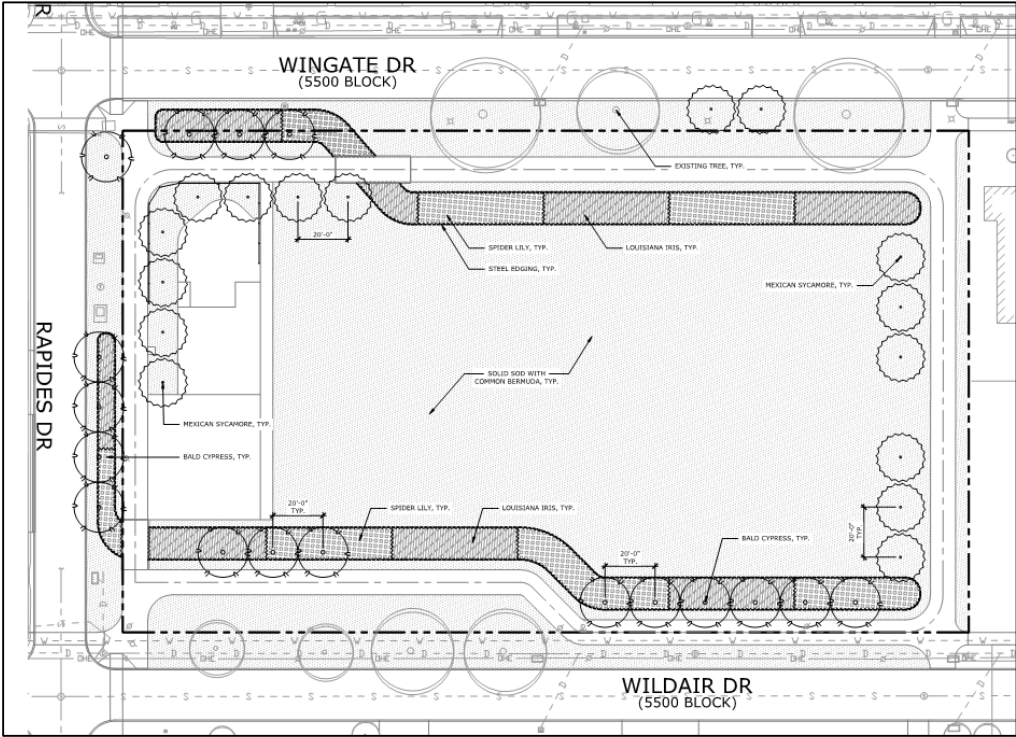
Gatto Playground – Approx. 45,000 cubic feet of stormwater storage



# St. Anthony Green Streets

## Design Development

Filmore Playground – Approx. 90,000 cubic feet of stormwater storage





# St. Anthony Green Streets

## Street Design Renderings

Wildair Drive near Rosary Drive

Existing



At Installation



At Maturity





# St. Anthony Green Streets

## Park Design Rendering

Existing



Proposed

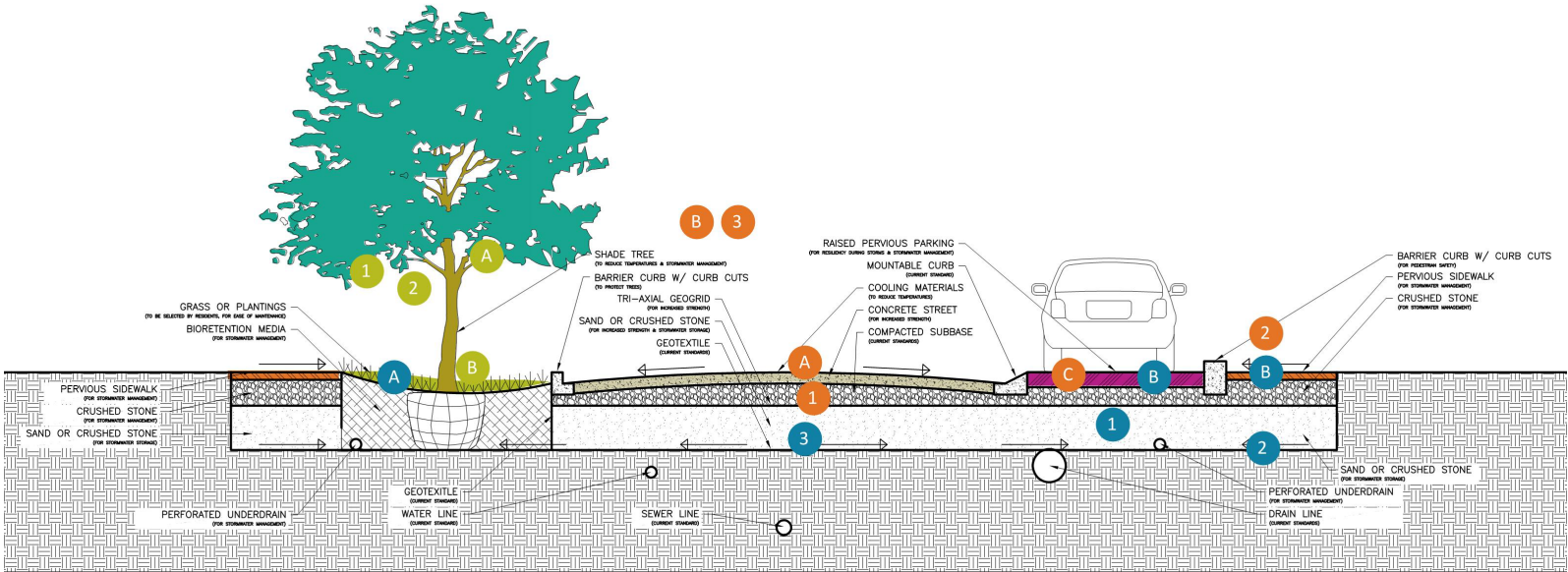




# St. Anthony Green Streets

## Next Steps

- Incorporate Recovery Roads work into project and determine necessary drainage infrastructure upgrades
- Incorporate input from additional community engagement events into design
- Continue community engagement efforts
- Continue monitoring metrics
  - Setup water quality monitoring
- Coordinate with Blue-Green Corridors
- Continue to refine SWMM model
- Refine storage and drainage design
- Coordinate details with SWBNO





**Please join us!**

**ST. ANTHONY COMMUNITY DINNER**  
**5:30 to 7:30 p.m. || Tuesday, December 3**  
**Bastion's Wellness Center,**  
**1901 Mirabeau Ave.**

All St. Anthony residents and stakeholders are invited to join the design team and city representatives for dinner. We will share updates on the project, review drawings, and continue the conversation on maintenance and stewardship that began in August. We will also talk about ways in you can be involved in design and public events in 2020.